

Research Publications (Last five years)

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1	Stability analysis of continuous time-delayed system with input saturation	Nisha, Pal V.C., Negi R., Pati A.	Nisha, Electrical Engineering Department, MNNIT Allahabad, Allahabad, India; Pal, V.C., EIED, Thapar Institute of Engineering Technology Patiala, Patiala, India; Negi, R., Electrical Engineering Department, MNNIT Allahabad, Allahabad, India; Pati, A., Department of Electrical Engineering, National Institute of Technology Silchar (Assam), Silchar, India	2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2018	2018	
2	Efficient Approach for Social Recommendations Using Graphs on Neo4j	Virk A., Rani R.	Virk, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the International Conference on Inventive Research in Computing Applications, ICIRCA 2018	2018	
3	Improving Software Process Quality Using 3D Six Sigma Approach	Kaur A., Kaur H.	Kaur, A., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, Punjab, India	Proceedings of the International Conference on Inventive Research in Computing Applications, ICIRCA 2018	2018	
4	Fingerprint Enhancement Using Wavelet Transformation and Differential Support Vector Machine	Singh M.J., Girdhar A.	Singh, M.J., Department of Software Engineering, Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, India; Girdhar, A., Department of Software Engineering, Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, India	Proceedings of the International Conference on Inventive Research in Computing Applications, ICIRCA 2018	2018	
5	ED-SHO: A framework for solving nonlinear economic load power dispatch problem using spotted hyena optimizer	Dhiman G., Guo S., Kaur S.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab Patiala, 147004, India; Guo, S., School of Economics and Management, North China Electric Power University, Beijing, 102206, China; Kaur, S., Department of Computer Science and Engineering, Dr. BR Ambedkar National Institute of Technology, Punjab Jalandhar, 144011, India	Modern Physics Letters A	2018	2177323
6	SLOPE: A Self Learning Optimization and Prediction Ensembler for Task Scheduling	Kapoor L., Jindal A., Benslimane A., Aujla G.S., Chaudhary R., Kumar N., Zomaya A.Y.	Kapoor, L., Sreenidhi Institute of Science and Technology, Hyderabad, Telangana, India; Jindal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, (Punjab), India; Benslimane, A., University of Avignon, France; Aujla, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, (Punjab), India; Chaudhary, R., Computer Science and Engineering Department, Chandigarh University, Gharuan, (Punjab), India; Chaudhary, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, (Punjab), India; Zomaya, A.Y., School of Information Technologies, J12, University of SydneyNSW 2006, Australia	International Conference on Wireless and Mobile Computing, Networking and Communications	2018	21619646
7	Modeling of load balanced scheduling and reliability evaluation for on-demand computing based transaction processing system	Mahato D.P., Sandhu J.K.	Mahato, D.P., Computer Science and Engineering, BIT Sindri, Dhanbad, Jharkhand 828123, India; Sandhu, J.K., Computer Science and Engineering, Thapar University, Patiala, Punjab 147001, India	Proceedings - IEEE 14th International Conference on eScience, e-Science 2018	2018	
8	MCTOPE Ensemble Machine Learning Framework: A Case Study of Routing Protocol Prediction	Hooda N., Bawa S., Rana P.S.	Hooda, N., CSED TIET, Patiala, India; Bawa, S., CSED TIET, Patiala, India; Rana, P.S., CSED TIET, Patiala, India	Proceedings on 2018 IEEE 3rd International Conference on Computing, Communication and Security, ICCCS 2018	2018	
9	Dicarboxamide polymorph derivatives for trace-level electrochemical sensing of Cu(II) supported with crystal structure and theoretical studies	Rana L.K., Sharma R., Ahmed B., Kaur D., Kumar S., Hundal G., Mittal S.K.	Rana, L.K., Department of Chemistry, UGC Sponsored Centre of Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Sharma, R., Sri Guru Granth Sahib World University, Chemistry Department, Fatehgarh Sahib, Punjab 140407, India; Ahmed, B., Department of Chemistry, UGC Sponsored Centre of Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Kaur, D., Department of Chemistry, UGC Sponsored Centre of Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Kumar, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Hundal, G., Department of Chemistry, UGC Sponsored Centre of Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Analytical Methods	2018	17599660
10	Effect of rotational flow on transition energy in mass asymmetric nuclear reactions	Kaur K., Kumar S.	Kaur, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University Gharuan, Punjab, 140413, India	AIP Conference Proceedings	2018	0094243X

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11	Prediction of pressure drop for the flow of zinc ore-water suspension in horizontal pipeline	Verma P., Kumar S., Lal K., Pal Singh J., Prasad S.B.	Verma, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Lal, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Pal Singh, J., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Prasad, S.B., National Institute of Technology, Jharkhand, Jamshedpur, India	IOP Conference Series: Materials Science and Engineering	2018	17578981
12	Synthesis and characterization of Gd-doped ZnO nanorods	Aggarwal N., Kaur K., Vasisth A., Verma N.K.	Aggarwal, N., Department of Physics, Chandigarh University Gharuan, Mohali, India; Kaur, K., Department of Physics, Chandigarh University Gharuan, Mohali, India; Vasisth, A., Department of Physics, Chandigarh Group of Colleges, Landran, Mohali, India; Verma, N.K., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, India	AIP Conference Proceedings	2018	0094243X
13	Isospin effects in transport models to study production of fragments and their flow	Kaur A., Kumar S.	Kaur, A., School of Physics and Materials Science, Thapar University Patiala, Punjab, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Punjab 140413, India	AIP Conference Proceedings	2018	0094243X
14	Investigation on the Rheological characteristics and Flow behaviour of Bottom ash-water slurry with additive	Pal Singh J., Kumar S., Mohapatra S.K., Verma P.	Pal Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Verma, P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	IOP Conference Series: Materials Science and Engineering	2018	17578981
15	Interconnection between balance energy and transition energy for light charged particles in heavy-ion collisions	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University Gharuan, Punjab, 140413, India	AIP Conference Proceedings	2018	0094243X
16	Sustainable geopolymer concrete using ground granulated blast furnace slag and rice husk ash: Strength and permeability properties	Mehta A., Siddique R.	Mehta, A., Arkade Consultants Hisar 125005, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India	Journal of Cleaner Production	2018	9596526
17	Assessment of tracing element characteristics of F-type fly and bottom ash mixture	Kumar S., Singh A., Kumar H.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Mechanical Engineering, Punjabi University, Patiala, India; Kumar, H., Department of Mechanical Engineering, Punjabi University, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2018	15567036
18	Multimedia big data computing and Internet of Things applications: A taxonomy and process model	Kumari A., Tanwar S., Tyagi S., Kumar N., Maasberg M., Choo K.-K.R.	Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Pb, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Pb, India; Maasberg, M., Department of Computer Information Systems, Louisiana Tech University, Ruston, LA 71272, United States; Choo, K.-K.R., Department of Information Systems and Cyber Security and Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249, United States	Journal of Network and Computer Applications	2018	10848045
19	Efficient copy-move forgery detection using blur and rotation invariant technique	Verma A., Kapoor V., Roy S.	Verma, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kapoor, V., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Roy, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	ACM International Conference Proceeding Series	2018	
20	Approximation of Multi Resonant Behaviour of Slotted Patch Antenna via Multi Cavity Model	Chopra A., Kaur J., Kaur N.	Chopra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Proceedings - ANTEM 2018: 2018 18th International Symposium on Antenna Technology and Applied Electromagnetics	2018	
21	Enhancement of surface roughness for brittle material during rotary ultrasonic machining	Sharma A., Babbar A., Jain V., Gupta D.	Sharma, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	MATEC Web of Conferences	2018	2261236X
22	A computational study of Stillinger-Weber silicon at 0.75 GPa in supercooled region	Gautam A.K., Chandra A.	Gautam, A.K., Department of Chemical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, 177005, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	International Journal of Modern Physics B	2018	2179792
23	Concise asymmetric syntheses of (S)-ethyl 4-methyloctanoate and its acid: Aggregation pheromones of rhinoceros beetles of the genus Oryctes	Pandey R., Prakash R.	Pandey, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	Arkivoc	2018	15517004

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24	An energy efficient load balanced cluster-based routing using ant colony optimization for WSN	Guleria K., Verma A.K.	Guleria, K., Thapar University, Patiala, Punjab, India; Verma, A.K., Thapar University, Patiala, Punjab, India	International Journal of Pervasive Computing and Communications	2018	17427371
25	CDF and MGF based analysis over Rayleigh TWDP shadowed fading channel for indoor communication	Shankar H., Kansal A.	Shankar, H., Electronics and Communication Engineering, Thapar University, Patiala, India; Kansal, A., Electronics and Communication Engineering, Thapar University, Patiala, India	International Journal of Electronics	2018	207217
26	4-Elements MIMO System Integrated with Planar Monopole and Slot Antenna for Wireless Applications	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India	RFM 2018 - 2018 IEEE International RF and Microwave Conference, Proceedings	2018	
27	Review of Live Virtual Machine Migration Techniques in Cloud Computing	Kaur J., Chana I.	Kaur, J., Department of Computer Science and Engineering, Thapar University, Patiala, India; Chana, I., Department of Computer Science and Engineering, Thapar University, Patiala, India	2018 International Conference on Circuits and Systems in Digital Enterprise Technology, ICCSDET 2018	2018	
28	Migraine disease diagnosis from EEG signals using Non-linear Feature Extraction Technique	Jindal K., Upadhyay R., Singh H.S., Vijay M., Sharma A., Gupta K., Gupta J., Dube A.	Jindal, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Upadhyay, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Vijay, M., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Sharma, A., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Gupta, K., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Gupta, J., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Dube, A., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India	2018 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 2018	2018	
29	Unequal clustering - An enhancement to network longevity in WSNs	Guleria K., Verma A.K.	Guleria, K., Department of Computer Science Engg., Thapar Institute of Engineering Technology, Patiala, India; Verma, A.K., Department of Computer Science Engg., Thapar Institute of Engineering Technology, Patiala, India	2018 4th International Conference on Computing Communication and Automation, ICCCA 2018	2018	
30	Machine learning-based voltage dip measurement of smart energy meter	Vora J., Vekaria D., Tanwar S., Tyagi S.	Vora, J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Vekaria, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering Technology, Deemed University, Patiala, India	PDGC 2018 - 2018 5th International Conference on Parallel, Distributed and Grid Computing	2018	
31	Clonal selection based parallel fuzzy clustering using map-reduce	Saneja B., Rani R.	Saneja, B., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rani, R., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	PDGC 2018 - 2018 5th International Conference on Parallel, Distributed and Grid Computing	2018	
32	C-HDESHO: Cancer classification framework using single objective meta-heuristic and machine learning approaches	Sharma A., Rani R.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	PDGC 2018 - 2018 5th International Conference on Parallel, Distributed and Grid Computing	2018	
33	Software optimization of lightweight ciphers for resource constraint devices	Kaur K., Bansal M., Agarwal A., Kumar A.	Kaur, K., Electronics Communication Dept., Thapar Institute of Engineering Technology, Patiala, India; Bansal, M., Electronics Communication Dept., Thapar Institute of Engineering Technology, Patiala, India; Agarwal, A., Electronics Communication Dept., Thapar Institute of Engineering Technology, Patiala, India; Kumar, A., Electronics Communication Dept., Thapar Institute of Engineering Technology, Patiala, India	PDGC 2018 - 2018 5th International Conference on Parallel, Distributed and Grid Computing	2018	
34	Tensor decomposition of biometric data using singular value decomposition	Mistry N., Tanwar S., Tyagi S., Singh P.K.	Mistry, N., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering Technology, Deemed University, Patiala, India; Singh, P.K., Department of CSE, Jaypee University of Information Technology, Wanknaghat, H.P., India	PDGC 2018 - 2018 5th International Conference on Parallel, Distributed and Grid Computing	2018	
35	M-ITRS: Mathematical model for identification of tandem repeats in DNA sequence	Kumar A., Garhwal S.	Kumar, A., Department of Computer Science and Engineering, Thapar University, Patiala, India; Garhwal, S., Department of Computer Science and Engineering, Thapar University, Patiala, India	IAES International Journal of Artificial Intelligence	2018	20894872

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36	Electrode materials for lithium-ion batteries	Mishra A., Mehta A., Basu S., Malode S.J., Shetti N.P., Shukla S.S., Nadagouda M.N., Aminabhavi T.M.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Malode, S.J., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Affiliated to Visvesvaraya Technological University, Gokul, Hubballi, Karnataka 580030, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Affiliated to Visvesvaraya Technological University, Gokul, Hubballi, Karnataka 580030, India, Department of Chemistry and Biochemistry, Lamar University, Beaumont, TX 77710, United States; Shukla, S.S., Department of Chemistry and Biochemistry, Lamar University, Beaumont, TX 77710, United States; Nadagouda, M.N., Department of Mechanical and Materials Engineering, Wright State University, Dayton, OH 45324, United States; Aminabhavi, T.M., Department of Chemistry and Biochemistry, Lamar University, Beaumont, TX 77710, United States	Materials Science for Energy Technologies	2018	25892991
37	Technological advances to maximize solar collector energy output: A review	Salvi S.S., Bhalla V., Taylor R.A., Khullar V., Otanicar T.P., Phelan P.E., Tyagi H.	Salvi, S.S., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Bhalla, V., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India, Centre for Energy and Environmental Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Taylor, R.A., School of Mechanical and Manufacturing Engineering, School of Photovoltaics and Renewable Energy Engineering, University of New South Wales, Sydney, 2052, Australia; Khullar, V., Mechanical Engineering Department, Thapar University, Punjab, Patiala, 147004, India; Otanicar, T.P., Department of Mechanical Engineering, University of Tulsa, Tulsa, OK 74104, United States; Phelan, P.E., School for Engineering of Matter, Transport and Energy, Arizona State University, Tempe, AZ 85287, United States; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India	Journal of Electronic Packaging, Transactions of the ASME	2018	10437398
38	Effect of interaction of the various modes on the radial velocity curves of the polytropic models of rotationally and tidally distorted pulsating variable stars	Kumar T., Pathania A., Lal A.K.	Kumar, T., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Pathania, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Lal, A.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Research in Astronomy and Astrophysics	2018	16744527
39	Symmetry Analysis of Variable-Coefficient Time-Fractional Nonlinear Systems of Partial Differential Equations	Gupta R.K., Singla K.	Gupta, R.K., Department of Mathematics and Statistics, Central University of Punjab, Bathinda, Punjab, India, Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana, India; Singla, K., School of Mathematics, Thapar University, Patiala, Punjab, India	Theoretical and Mathematical Physics(Russian Federation)	2018	405779
40	Global gbest guided-artificial bee colony algorithm for numerical function optimization	Shah H., Tairan N., Garg H., Ghazali R.	Shah, H., College of Computer Science, King Khalid University, Abha, 62529, Saudi Arabia; Tairan, N., College of Computer Science, King Khalid University, Abha, 62529, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India; Ghazali, R., Faculty of Computer Science, Universiti Tun Hussein Onn Malaysia, Batu PahatJohor 83000, Malaysia	Computers	2018	2073431X
41	Unification of the fixed point in integral type metric spaces	Panda S.K., Alamri B.A.S., Hussain N., Chandok S.	Panda, S.K., Department of Mathematics, Basic Sciences and Humanities, GMR Institute of Technology, GMR Nagar, Rajam, Srikakulam Dist., Andhra Pradesh, 532127, India; Alamri, B.A.S., Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah, 21589, Saudi Arabia; Hussain, N., Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah, 21589, Saudi Arabia; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India	Symmetry	2018	20738994
42	Algorithm for T-spherical fuzzy multi-attribute decision making based on improved interactive aggregation operators	Garg H., Munir M., Ullah K., Mahmood T., Jan N.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Munir, M., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Ullah, K., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Jan, N., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan	Symmetry	2018	20738994
43	Genetic Variants in the Wingless Antagonist Genes (sFRP, DKK, and Axin2) Predict the Overall Survival and Prognosis of North Indian Lung Cancer Patients Treated with Platinum-Based Doublet Chemotherapy	Bahl C., Singh N., Behera D., Sharma S.	Bahl, C., Department of Biotechnology, Thapar University, Patiala, India; Singh, N., Department of Pulmonary Medicine, Institute of Medical Education and Research, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Institute of Medical Education and Research, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, India	Cancer Biotherapy and Radiopharmaceuticals	2018	10849785
44	Fluorescent carbon dot decorated MnO2 nanorods for complete photomineralization of phenol from water	Mehta A., Mishra A., Basu S.	Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Science: Water Research and Technology	2018	20531400

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45	Highly conserved hemagglutinin peptides of H1N1 influenza virus elicit immune response	Lohia N., Baranwal M.	Lohia, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Life Sciences, Jaipur National University, Jaipur, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	3 Biotech	2018	2190572X
46	Effect of B4C abrasive mixed into dielectric fluid on electrical discharge machining	Shard A., Shikha D., Gupta V., Garg M.P.	Shard, A., Department of Mechanical Engineering, DAV University, Jalandhar, Punjab 144001, India; Shikha, D., School of Physics and Material Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Jalandhar, Punjab 144001, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	16785878
47	A numerical treatment of unsteady three-dimensional hydromagnetic flow of a Casson fluid with Hall and radiation effects	Prashu, Nandkeolyar R.	Prashu, School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Nandkeolyar, R., Department of Mathematics, National Institute of Technology Jamshedpur, Jamshedpur, 831014, India	Results in Physics	2018	22113797
48	Controlling ambipolar current of dopingless tunnel field-effect transistor	Tirkey S., Yadav D.S., Sharma D.	Tirkey, S., PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, India; Yadav, D.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, D., PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, India	Applied Physics A: Materials Science and Processing	2018	9478396
49	Electromyographic Signal-Driven Continuous Locomotion Mode Identification Module Design for Lower Limb Prosthesis Control	Gupta R., Agarwal R.	Gupta, R., EIED, Thapar University, Patiala, Punjab, India; Agarwal, R., EIED, Thapar University, Patiala, Punjab, India	Arabian Journal for Science and Engineering	2018	2193567X
50	An Extended Version of Flower Pollination Algorithm	Singh D., Singh U., Salgotra R.	Singh, D., Department of ECE, Thapar University, Patiala, India; Singh, U., Department of ECE, Thapar University, Patiala, India; Salgotra, R., Department of ECE, Thapar University, Patiala, India	Arabian Journal for Science and Engineering	2018	2193567X
51	Adaptive Differential Evolution-Based Lorenz Chaotic System for Image Encryption	Kaur M., Kumar V.	Kaur, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Arabian Journal for Science and Engineering	2018	2193567X
52	A Computationally Efficient Weight Pruning Algorithm for Artificial Neural Network Classifiers	Sakshi, Ravi Kumar	Sakshi, Electronics and Communication Engineering Department, Thapar University, Patiala, 147004, India; Ravi Kumar, Electronics and Communication Engineering Department, Thapar University, Patiala, 147004, India	Arabian Journal for Science and Engineering	2018	2193567X
53	A novel framework for writer identification based on pre-segmented Gurmukhi characters	Kumar M., Jindal M.K., Sharma R.K., Jindal S.R.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Jindal, M.K., Department of Computer Science and Applications, Panjab University Regional Centre, Muktsar, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar University, Patiala, India; Jindal, S.R., Computer Science and Engineering, Yadavindra College of Engineering, Talwandi Sabo, Bathinda, India	Sadhana - Academy Proceedings in Engineering Sciences	2018	2562499
54	Potential Risk by Disposal of Bottom Ash from Thermal Power Plants and Minimization by Addition of NaHCO ₃	Singh G., Kumar S., Mohapatra S.K.	Singh, G., School of Mechanical Engineering, Lingaya's Vidyapeeth, Faridabad, 121002, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bulletin of Environmental Contamination and Toxicology	2018	74861
55	Fission Cross Sections and Fragment Mass Distribution of Actinide Nuclei Formed in n-Induced Reactions	Kaur A., Kaur G., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Brazilian Journal of Physics	2018	1039733
56	New Lightweight Architectures for Secure FSM Design to Thwart Fault Injection and Trojan Attacks	Rathor V.S., Garg B., Sharma G.K.	Rathor, V.S., ABV- Indian Institute of Information Technology and Management, Gwalior, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, G.K., ABV- Indian Institute of Information Technology and Management, Gwalior, India	Journal of Electronic Testing: Theory and Applications (JETTA)	2018	9238174
57	Photocatalytic study of ZnS-Ag ₂ S nanocomposites-effect of thioglycerol	Kaur J., Gupta A., Pandey O.P.	Kaur, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Solar Energy	2018	0038092X
58	Biometrics-Based Privacy-Preserving User Authentication Scheme for Cloud-Based Industrial Internet of Things Deployment	Das A.K., Wazid M., Kumar N., Vasilakos A.V., Rodrigues J.J.P.C.	Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Wazid, M., Department of Computer Science and Engineering, Manipal Academy of Higher Education, Manipal Institute of Technology, Manipal, 576 104, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Vasilakos, A.V., Department of Computer Science, Electrical and Space Engineering, Lulea University of Technology, Lulea, 971 87, Sweden; Rodrigues, J.J.P.C., Post-Graduation Program on Telecommunications, National Institute of Telecommunications (Inatel), Santa-Rita-do-Sapucaí, 37540-000, Brazil, Covilhã Delegation, Instituto de Telecomunicações, Lisbon, 1049-001, Portugal, PPGIA, University of Fortaleza, Fortaleza, 60811-905, Brazil	IEEE Internet of Things Journal	2018	23274662

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
59	Multilayer Graphene Nanoribbon (MLGNR) as VLSI Interconnect Material at Nano-scaled Technology Nodes	Sharma H., Sandha K.S.	Sharma, H., Thapar Institute of Engineering and Technology, Patiala, India; Sandha, K.S., Thapar Institute of Engineering and Technology, Patiala, India	Transactions on Electrical and Electronic Materials	2018	12297607
60	Longitudinal Dispersion Subjected to Rigid Vegetation in a Channel	Ratha D., Chandra A., Babbar R., Sarkar A.	Ratha, D., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chandra, A., Dept. of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Babbar, R., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sarkar, A., School of Infrastructure, Indian Institute of Technology, Bhubaneswar, Odisha, India	KSCE Journal of Civil Engineering	2018	12267988
61	New logarithmic operational laws and their applications to multiattribute decision making for single-valued neutrosophic numbers	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India	Cognitive Systems Research	2018	13890417
62	Performance prediction of PV module using electrical equivalent model and artificial neural network	Mittal M., Bora B., Saxena S., Gaur A.M.	Mittal, M., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bora, B., National Institute of Solar Energy, Gurugram, Haryana, India; Saxena, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Gaur, A.M., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Solar Energy	2018	0038092X
63	Na2O doped CeO2 and their structural, optical, conducting and dielectric properties	Jaidka S., Khan S., Singh K.	Jaidka, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica B: Condensed Matter	2018	9214526
64	On the scaling of nuclear flow in mass asymmetric heavy ion reactions	Kaur K., Kumar S.	Kaur, K., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Department of Physics, Central University of Haryana, Jant-Pali, Haryana, Mahendergarh, India	Nuclear Physics A	2018	3759474
65	Surfactant enhanced drying of waterbased poly(vinyl alcohol) coatings	Sharma D., Sharma J., Arya R.K., Ahuja S., Agnihotri S.	Sharma, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Sharma, J., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India	Progress in Organic Coatings	2018	3009440
66	Study of α -induced reactions forming A = 60 compound systems within dynamical cluster-decay model	Kaur M., Singh B., Sharma M.K., Gupta R.K.	Kaur, M., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Singh, B., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Gupta, R.K., Department of Physics, Panjab University, Chandigarh, 160014, India	Nuclear Physics A	2018	3759474
67	A Novel Approach for Determination of Power Quality Monitoring Index of an AC Microgrid Using Fuzzy Inference System	Kaushal J., Basak P.	Kaushal, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2018	22286179
68	Strong magnetoelectric effect in pulse laser deposited [Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃]/CoFe ₂ O ₄ bilayer thin film	Rani J., Kushwaha V.K., Kolte J., Tomy C.V.	Rani, J., Department of Physics, Vardhaman College, Bijror, India; Kushwaha, V.K., Department of Physics, Indian Institute of Technology Bombay, Mumbai, India; Kolte, J., School of Physics and Materials Science, Thapar University, Patiala, India; Tomy, C.V., Department of Physics, Indian Institute of Technology Bombay, Mumbai, India	Journal of the American Ceramic Society	2018	27820
69	Waste materials as potential catalysts for biodiesel production: Current state and future scope	Marwaha A., Roshia P., Mohapatra S.K., Mahla S.K., Dhir A.	Marwaha, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Roshia, P., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mahla, S.K., Department of Mechanical Engg., I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146001, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Fuel Processing Technology	2018	3783820
70	Sensitivity enhancement of FBG sensor for portlandite monitoring	Kaur G., Kaler R.S.	Kaur, G., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India	Optical Fiber Technology	2018	10685200

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
71	Approaches in Cultural Computing: A Survey and Inference from Social Computing with Dynamics of Mind	Sharma S., Bawa S., Lomash H.	Sharma, S., Department of Computer Science and Engineering, Thapar University, Patiala, India; Bawa, S., Department of Computer Science and Engineering, Thapar University, Patiala, India; Lomash, H., Lal Bahadur Shastri National Academy of Administration, Mussorrie, Utrakhhand, India	Wireless Personal Communications	2018	9296212
72	Low temperature synthesis of NbC/C nano-composites as visible light photoactive catalyst	Gupta A., Mittal M., Singh M.K., Suib S.L., Pandey O.P.	Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mittal, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M.K., Department of Mechanical Engineering, Indian Institute of Science, Bangalore, 560012, India; Suib, S.L., Department of Chemistry, University of Connecticut, 55 North Eagleville Rd., Storrs, CT 06269, United States; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Scientific Reports	2018	20452322
73	N, Ag co-doped TiO ₂ mediated modified in-situ dual process (modified photocatalysis and photo-Fenton) in fixed-mode for the degradation of Cephalexin under solar irradiations	Bansal P., Verma A.	Bansal, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Chemosphere	2018	456535
74	Crosslinked polymer doped binary coatings for corrosion protection	Kaur H., Sharma J., Jindal D., Arya R.K., Ahuja S.K., Arya S.B.	Kaur, H., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Jindal, D., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Arya, S.B., Department of Metallurgical and Materials Engineering, National Institute of Technology, Surathkal, Mangalore, Karnataka 575025, India	Progress in Organic Coatings	2018	3009440
75	Role of particle size distribution and magnetic anisotropy on magnetization of antiferromagnetic nanoparticles	Kaur N., Tiwari S.D.	Kaur, N., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Journal of Physics and Chemistry of Solids	2018	223697
76	Applicability of heat mirrors in reducing thermal losses in concentrating solar collectors	Khullar V., Mahendra P., Mittal M.	Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mahendra, P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mittal, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Thermal Science and Engineering Applications	2018	19485085
77	Magnetohydrodynamic mixed convective flow due to a vertical plate with induced magnetic field	Nandkeolyar R., Narayana M., Motsa S.S., Sibanda P.	Nandkeolyar, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Narayana, M., Department of Mathematics, M. S. Ramaiah University of Applied Sciences, Peenya Campus, Bengaluru, 560058, India; Motsa, S.S., Mathematics Department, University of Swaziland, Private Bag 4, Kwaluseni, M201, Swaziland, School of Mathematics, Statistics and Computer Science, University of KwaZulu-Natal, Private Bag X01, Scottsville, Pietermaritzburg, 3209, South Africa; Sibanda, P., School of Mathematics, Statistics and Computer Science, University of KwaZulu-Natal, Private Bag X01, Scottsville, Pietermaritzburg, 3209, South Africa	Journal of Thermal Science and Engineering Applications	2018	19485085
78	Selenium-rich mushrooms cultivation on a wheat straw substrate from seleniferous area in Punjab, India	Solovyev N., Prakash N.T., Bhatia P., Prakash R., Drobyshev E., Michalke B.	Solovyev, N., St. Petersburg State University, Institute of Chemistry, 199034 Universitetkaya nab. 7/9, St. Petersburg, Russian Federation; Prakash, N.T., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Drobyshev, E., Institut für Ernährungswissenschaft, Universität Potsdam, Arthur-Scheunert-Allee 114-116, Nuthetal, Potsdam, 14558, Germany; Michalke, B., Helmholtz Zentrum München – German Research Center for Environmental Health, Research Unit Analytical BioGeoChemistry, Ingolstaedter Landstr.1, Neuherberg, 85764, Germany	Journal of Trace Elements in Medicine and Biology	2018	0946672X
79	Complex intuitionistic fuzzy power aggregation operators and their applications in multicriteria decision-making	Rani D., Garg H.	Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	Expert Systems	2018	2664720
80	PFCA: An influence-based parallel fuzzy clustering algorithm for large complex networks	Bhatia V., Rani R.	Bhatia, V., Department of Computer Science and Engineering, Thapar University, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, India	Expert Systems	2018	2664720

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
81	Some hybrid weighted aggregation operators under neutrosophic set environment and their applications to multicriteria decision-making	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Applied Intelligence	2018	0924669X
82	Imbalance of dietary nutrients and the associated differentially expressed genes and pathways may play important roles in juvenile Kashin-Beck disease	Ning Y., Wang X., Zhang P., Anatoly S.V., Prakash N.T., Li C., Zhou R., Lammi M., Zhang F., Guo X.	Ning, Y., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China; Wang, X., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China; Anatoly, S.V., All-Russian Research Institute of Medicinal and Aromatic Plants, Moscow, Russian Federation, Orenburg State University, Orenburg, Russian Federation, Yaroslavl State University, Yaroslavl, Russian Federation, RUDN University, Moscow, Russian Federation; Prakash, N.T., Department of Biotechnology and Environmental Sciences, Thapar University, Patiala, India; Li, C., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China, Shaanxi Provincial Institute for Endemic Disease Control, China; Zhou, R., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China, Shaanxi Provincial Institute for Endemic Disease Control, China; Lammi, M., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China, Department of Integrative Medical Biology, University of Umeå, Umeå, Sweden; Zhang, F., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China; Guo, X., School of Public Health, Xi'an Jiaotong University Health Science Center, Key Laboratory of Trace Elements and Endemic Diseases, National Health and Family Planning Commission, Xi'an, Shaanxi 710061, China	Journal of Trace Elements in Medicine and Biology	2018	0946672X
83	Suppression of contact bounce in beam-type microelectromechanical switches using a feedforward control scheme	Godara R.K., Joglekar M.M.	Godara, R.K., Department of Mechanical Engineering, Thapar University, India, Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, India; Joglekar, M.M., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, India	JVC/Journal of Vibration and Control	2018	10775463
84	Optical Detection of Thiol Drugs by Core-Shell Luminous Carbon Dots—Gold Nanoparticles System	Mehta A., Mishra A., Basu S.	Mehta, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Plasmonics	2018	15571955
85	User behavior analysis-based smart energy management for webpage ranking: Learning automata-based solution	Makkar A., Kumar N.	Makkar, A., Computer Science Engineering Department, Thapar University, Patiala, India; Kumar, N., Computer Science Engineering Department, Thapar University, Patiala, India	Sustainable Computing: Informatics and Systems	2018	22105379
86	A secure authentication scheme based on elliptic curve cryptography for IoT and cloud servers	Kumari S., Karuppiyah M., Das A.K., Li X., Wu F., Kumar N.	Kumari, S., Department of Mathematics, Ch. Charan Singh University, Meerut, Uttar Pradesh 250 005, India; Karuppiyah, M., School of Computer Science and Engineering, VIT University, Vellore, Tamilnadu 632 014, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Li, X., School of Computer Science and Engineering, Hunan University of Science and Technology, Xiangtan, 411201, China; Wu, F., Department of Computer Science and Engineering, Xiamen Institute of Technology, Xiamen, 361021, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India	Journal of Supercomputing	2018	9208542
87	An Improved Firefly Algorithm for the Vehicle Routing Problem with Time Windows	Aggarwal D., Kumar V.	Aggarwal, D., Computer Science and Engineering Department, NIIT University, Neemrana, Rajasthan, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	2018 International Conference on Advances in Computing, Communications and Informatics, ICACCI 2018	2018	
88	Temperature dependent bond strength model for GFRP laminate externally bonded to heat-damaged concrete	Danie Roy A.B., Ganesh R., Waseem S.A., Shermi C., Venkatesan J.	Danie Roy, A.B., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Ganesh, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Waseem, S.A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Shermi, C., Structural Engineering Division, Central Building Research Institute, Roorkee, 247667, India; Venkatesan, J., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India	Construction and Building Materials	2018	9500618

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
89	Extensions of Móricz classes and convergence of trigonometric sine series in L1-norm	Chouhan S.K., Kaur J., Bhatia S.S.	Chouhan, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, J., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhatia, S.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Mathematics	2018	22277390
90	Algorithm for probabilistic dual hesitant fuzzy multi-criteria decision-making based on aggregation operators with new distance measures	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University) Patiala, Punjab, 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University) Patiala, Punjab, 147004, India	Mathematics	2018	22277390
91	Bimetallic Pd@Ni-mesoporous TiO2 nanocatalyst for highly improved and selective hydrogenation of carbonyl compounds under UV light radiation	Bathla A., Pal B.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Industrial and Engineering Chemistry	2018	1226086X
92	Using deep learning to enhance head and neck cancer diagnosis and classification	Gupta P., Malhi A.K.	Gupta, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Malhi, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2018 IEEE International Conference on System, Computation, Automation and Networking, ICSCA 2018	2018	
93	A quantum approach for time series data based on graph and Schrödinger equations methods	Singh P., Dhiman G., Kaur A.	Singh, P., Smt. Chandaben Mohanbhai Patel Institute of Computer Applications, Charusat Campus, Changa, Anand, Gujarat, 388421, India; Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters A	2018	2177323
94	Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots	Mishra A., Basu S., Shetti N.P., Reddy K.R., Aminabhavi T.M.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Hubballi, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW, Australia; Aminabhavi, T.M., Sonia College of Pharmacy, Dharwad, India	Nanoscale Materials in Water Purification	2018	
95	Recent Progress in TiO2- and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation	Venkata Reddy C., Reddy K.R., Shetti N.P., Mishra A., Basu S.	Venkata Reddy, C., School of Mechanical Engineering, Yeungnam University, Gyeongsan, South Korea; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW, Australia; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Hubballi, India; Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Nanoscale Materials in Water Purification	2018	
96	Fusion cross section for Ni-based reactions within the relativistic mean-field formalism	Bhuyan M., Kumar R.	Bhuyan, M., Instituto Tecnológico de Aeronáutica, Sao José dos Campos, SP 12.228-900, Brazil; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physical Review C	2018	24699985
97	Taguchi approach to erosion wear optimization of WC-10Co-4Cr sprayed austenitic steel subjected to equisized slurry	Singh G., Kumar S., Sehgal S.S.	Singh, G., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sehgal, S.S., Department of Mechanical Engineering, Chandigarh University, Mohali, India	Industrial Lubrication and Tribology	2018	368792
98	Tribological behaviour of WC-10Co4Cr coated slurry pipe materials	Kumar K., Kumar S., Gupta M., Garg H.C.	Kumar, K., Department of Mechanical Engineering, Guru Jambheshwar University of Science and Technology Hisar, India; Kumar, S., Department of Mechanical Engineering, Thapar University, Patiala, India; Gupta, M., Department of Mechanical Engineering, Guru Jambheshwar University of Science and Technology Hisar, India; Garg, H.C., Department of Mechanical Engineering, Guru Jambheshwar University of Science and Technology Hisar, India	Industrial Lubrication and Tribology	2018	368792
99	Parallel non-dominated sorting genetic algorithm-II-based image encryption technique	Kaur M., Kumar V.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Imaging Science Journal	2018	13682199
100	Study of particle size distribution of pulverized coals in utility boilers	Vishnoi N., Mohapatra S.K.	Vishnoi, N., Mechanical Engineering Department, Thapar University, Patiala, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar University, Patiala, India	Particulate Science and Technology	2018	2726351
101	Biogas reforming for hydrogen enrichment by ceria decorated over nickel catalyst supported on titania and alumina	Rosha P., Mohapatra S.K., Mahla S.K., Dhir A.	Rosha, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146001, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Hydrogen Energy	2018	3603199

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
102	Influence of intermediates on the optical and theoretical parameters of xLa ₂ O ₃ -(10-x) Y ₂ O ₃ -15SrO-15CaO - 10B ₂ O ₃ -10Al ₂ O ₃ -40SiO ₂ (2 ≤ x ≤ 8) glasses	Kaur M., Kaur G., Kumar V.	Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, 140406, India, Shri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147001, India; Kumar, V., Shri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India	Journal of Non-Crystalline Solids	2018	223093
103	Seed oil of <i>Jatropha curcas</i> L. germplasm: Analysis of oil quality and fatty acid composition	Kumar R., Das N.	Kumar, R., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Industrial Crops and Products	2018	9266690
104	Analyses of lattice hydrodynamic model using delayed feedback control with passing	Kaur R., Sharma S.	Kaur, R., School of Mathematics, Thapar University, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar University, Patiala, 147004, India	Physica A: Statistical Mechanics and its Applications	2018	3784371
105	Simulation Hardware Design of Prototype Current Controller for Plug in Hybrid Electric Vehicle Applications	Ghatora A.S., Garg N.	Ghatora, A.S., Department of Electrical Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, 141006, India; Garg, N., Department of Electrical Instrumentation, Thapar University, Patiala, 147004, India	2018 International Conference on Information, Communication, Engineering and Technology, ICICET 2018	2018	
106	Experimental Demonstration of in Situ Stress-Driven Optical Modulations in Flexible Semiconducting Thin Films with Enhanced Photodetecting Capability	Lee S.M., Jang W., Mohanty B.C., Yoo J., Jang J.W., Kim D.B., Yi Y., Soon A., Cho Y.S.	Lee, S.M., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Jang, W., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Yoo, J., Department of Physics, Yonsei University, Seoul, 03722, South Korea; Jang, J.W., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Kim, D.B., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Yi, Y., Department of Physics, Yonsei University, Seoul, 03722, South Korea; Soon, A., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Cho, Y.S., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea	Chemistry of Materials	2018	8974756
107	Folksonomy-based user profile enrichment using clustering and community recommended tags in multiple levels	Goel S., Kumar R.	Goel, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Neurocomputing	2018	9252312
108	An efficient speaker recognition using quantum neural network	Kaur R., Sharma R.K., Kumar P.	Kaur, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Modern Physics Letters B	2018	2179849
109	Astrophysics inspired multi-objective approach for automatic clustering and feature selection in real-life environment	Dhiman G., Kumar V.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Modern Physics Letters B	2018	2179849
110	On the inadequate equilibrium accomplished in mass asymmetric reactions at intermediate energies	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Kumar, S., Department of Physics, Central University of Haryana Jant-Pali, Mahendergarh, Haryana, 123031, India	Modern Physics Letters A	2018	2177323
111	Gender, Makeup, Age and Illumination Prediction from Faces Using Ensemble Modeling	Nigam K., Sharma S., Rana P.S.	Nigam, K., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 3rd International Conference for Convergence in Technology, I2CT 2018	2018	
112	A Data-Driven Framework for Survivable Wireless Sensor Networks	Kaur Sandhu J., Kumar Verma A., Singh Rana P.	Kaur Sandhu, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar Verma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh Rana, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 11th International Conference on Contemporary Computing, IC3 2018	2018	
113	Design and Development of Integrated Insole System for Gait Analysis	Aggarwal A., Gupta R., Agarwal R.	Aggarwal, A., Thapar Institute of Engineering Technology Patiala, Punjab, India; Gupta, R., Thapar Institute of Engineering Technology Patiala, Punjab, India; Agarwal, R., Thapar Institute of Engineering Technology Patiala, Punjab, India	2018 11th International Conference on Contemporary Computing, IC3 2018	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
114	Effects of spatial distribution patterns of magnetic nanoparticles on temperature distribution in magnetic hyperthermia	Singh G., Kumar N., Avti P.K.	Singh, G., Mechanical Engineering Department, TIET, Patiala, India; Kumar, N., Mechanical Engineering Department, TIET, Patiala, India; Avti, P.K., Department of Biophysics, PGIMER, Chandigarh, India	EMF-Med 2018 - 1st EMF-Med World Conference on Biomedical Applications of Electromagnetic Fields and COST EMF-MED Final Event with 6th MCM	2018	
115	A Trust Model for Effective Cooperation in Flying Ad Hoc Networks Using Genetic Algorithm	Singh K., Verma A.K.	Singh, K., Thapar University, Computer Science and Engineering and Technology, Patiala, 147004, India; Verma, A.K., Thapar University, Computer Science and Engineering and Technology, Patiala, 147004, India	Proceedings of the 2018 IEEE International Conference on Communication and Signal Processing, ICCSP 2018	2018	
116	Clustering Application for Streaming Big Data in Smart Grid	Banga A., Sinha A.	Banga, A., Thapar Institute of Engineering and Technology, Punjab, India; Sinha, A., Department of EIED, Thapar Institute of Engineering and Technology, Punjab, India	Proceedings of the 2018 IEEE International Conference on Communication and Signal Processing, ICCSP 2018	2018	
117	Nature-inspired optimisation algorithms assisted realisation of green communication via CR: A comparison study	Kaur A., Sharma S., Mishra A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Communications	2018	17518628
118	Mutual fund investor's behaviour towards information search and selection criteria: Do knowledge and perception about mutual funds matter?	Kaur I.	Kaur, I., LM Thapar School of Management, Thapar University, Patiala, India	Qualitative Research in Financial Markets	2018	17554179
119	Effect of feedstocks and chain length of alcohols on whole-cell-catalyzed generation of alkyl esters	Sharma A., Melo J.S., Tejo Prakash N., Prakash R.	Sharma, A., Department of Biotechnology, Thapar University, Patiala, India; Melo, J.S., NA&BTD, Bhabha Atomic Research Centre, Mumbai, India; Tejo Prakash, N., School of Energy & Environment, Thapar University, Patiala, India; Prakash, R., School of Chemistry & Biochemistry, Thapar University, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2018	15567036
120	Bonferroni mean aggregation operators under intuitionistic fuzzy soft set environment and their applications to decision-making	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, India; Arora, R., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, India	Journal of the Operational Research Society	2018	1605682
121	On surface modification of austenitic stainless steel using microwave processed Ni/Cr3C2 composite cladding	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Thapar University, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar University, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar University, Patiala, India	Surface Engineering	2018	2670844
122	Enhancement of Corn image quality using Very-Deep Super-Resolution (VDSR) neural network	Rampal H., Das A., Mahajan S., Singh S.	Rampal, H., Thapar University, Department of Electrical and Instrumentation Engineering, Patiala, India; Das, A., Academy of Scientific and Innovative Research (ACSIR), CSIR-CSIO, Mechanical Measurement Instrumentation Division, Chandigarh, India; Mahajan, S., Chitkara University Research Innovation Network (CURIN), Chitkara University, Department of Computer Science and Engineering, Punjab, India; Singh, S., CSIR-CSIO, Mechanical Measurement Instrumentation Division, Chandigarh, India	Proceedings of the 3rd International Conference on Inventive Computation Technologies, ICICT 2018	2018	
123	Effect of different nuclear density approximations on fusion dynamics within Skyrme Energy Density Formalism	Jain S., Kumar R., Sharma M.K.	Jain, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	European Physical Journal A	2018	14346001
124	Design and development of high power matching network for variable load	Jain A., Yadav R.P., Kumar S.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Department of High Power ICRH System Division, Institute for Plasma Research, Gandhinagar, Gujarat, India	IEEE MTT-S International Microwave and RF Conference, IMaRC 2018	2018	
125	Development of Fiber Optic Sensors for Leak Detection in Underground Energy Storage Pipelines	Gupta R., Kaler R.S.	Gupta, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	
126	Photonic Based Refractive Index Sensor for Portlandite Monitoring in Civil Structure	Kaur G., Kaler R.S.	Kaur, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
127	Nanostructure Materials for Electrochemical Hydrogen Storage: A Review	Jindal H., Sandhu I.S., Chitkara M., Oberoi A.S.	Jindal, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Sandhu, I.S., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Chitkara, M., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Oberoi, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	
128	Alkali leaching of indian coal for ash reduction	Singh J.P., Mohapatra S.K., Singh G., Kumar S., Singh M.K.	Singh, J.P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, P. O. Box 147004, Patiala, Punjab, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, P. O. Box 147004, Patiala, Punjab, India; Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, P. O. Box 147004, Patiala, Punjab, India; Kumar, S., Mechanical Engineering Department, National Institute of Technology, Jamshedpur, Jharkhand, India; Singh, M.K., Mechanical Engineering Department, Chandigarh University, Gharuan, Punjab, India	Iranian Journal of Chemistry and Chemical Engineering	2018	10219986
129	Applying Predictive Analytics in Elective Course Recommender System while preserving Student Course Preferences	Verma R., Anika	Verma, R., Computer Science Engineering Department, TIET, Patiala, India; Anika, Computer Science Engineering Department, TIET, Patiala, India	Proceedings of the 6th IEEE International Conference on MOOCs Innovation and Technology In Education, MITE 2018	2018	
130	Analysis of Punctuation Prediction Models for Automated Transcript Generation in MOOC Videos	Garg B., Anika	Garg, B., Computer Science Engineering Department, TIET, Patiala, India; Anika, Computer Science Engineering Department, TIET, Patiala, India	Proceedings of the 6th IEEE International Conference on MOOCs Innovation and Technology In Education, MITE 2018	2018	
131	Applying Data Mining Techniques for Generating MOOCs Recommendations on the Basis of Learners Online Activity	Jain H., Anika	Jain, H., Computer Science and Engineering Department, TIET, Patiala, India; Anika, Computer Science and Engineering Department, TIET, Patiala, India	Proceedings of the 6th IEEE International Conference on MOOCs Innovation and Technology In Education, MITE 2018	2018	
132	A Novel Two-Dimensional Material Based Optical Fiber Surface Plasmon Resonance Sensor for Sensing of Organic Compounds in Infrared Spectrum Window	Singh S., Kaler R.S., Sharma S.	Singh, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, S., Department of Bio-technology, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Communications Technology and Electronics	2018	10642269
133	Dynamic programming based optimal renewable energy allocation in sustained wireless sensor networks	Sharma A., Kakkar A.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India, ECE Department, Chandigarh University, Mohali, India; Kakkar, A., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Renewable and Sustainable Energy	2018	19417012
134	A novel modulation technique for FWM suppression in broadband coherent DWDM systems	Kaur G.P., Kaur G., Sharma S.	Kaur, G.P., Thapar Institute of Engg. & Technology (Deemed University), Patiala, Punjab, India; Kaur, G., Punjabi University, Patiala, Punjab, India; Sharma, S., Thapar Institute of Engg. & Technology (Deemed University), Patiala, Punjab, India	Optoelectronics and Advanced Materials, Rapid Communications	2018	18426573
135	Invariance properties, conservation laws, and soliton solutions of the time-fractional (2 + 1) -dimensional new coupled ZK system in magnetized dusty plasmas	Kaur B., Gupta R.K.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, R.K., Department of Mathematics and Statistics, Central University of Punjab, Bathinda, Punjab 151001, India	Computational and Applied Mathematics	2018	22383603
136	A family of higher order derivative free methods for nonlinear systems with local convergence analysis	Bhalla S., Kumar S., Argyros I.K., Behl R.	Bhalla, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Argyros, I.K., Department of Mathematics Sciences, Cameron University, Lawton, OK 73505, United States; Behl, R., Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah, 21589, Saudi Arabia	Computational and Applied Mathematics	2018	22383603
137	SeDaTIVE: SDN-Enabled Deep Learning Architecture for Network Traffic Control in Vehicular Cyber-Physical Systems	Jindal A., Aujla G.S., Kumar N., Chaudhary R., Obaidat M.S., You I.	Jindal, A., Thapar Institute of Engineering and Technology, India; Aujla, G.S., Lancaster University, United Kingdom, Chandigarh University, India; Kumar, N., Thapar Institute of Engineering and Technology, India; Chaudhary, R., Thapar Institute of Engineering and Technology, India; Obaidat, M.S., University of Jordan, Jordan; You, I., Soonchunhyang University, China	IEEE Network	2018	8908044

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
138	Improving the thermal efficiency of the homogeneous charge compression ignition engine by using various combustion patterns	Wu Y.-Y., Wang J.H., Mir F.M.	Wu, Y.-Y., Department of Vehicle Engineering, National Taipei University of Technology, Taipei, 10608, Taiwan; Wang, J.H., Department of Vehicle Engineering, National Taipei University of Technology, Taipei, 10608, Taiwan; Mir, F.M., Department of Mechanical Engineering, Thapar University, Patiala, 147001, India	Energies	2018	19961073
139	Decay Analysis of Ge Isotopes Formed in Reactions Induced by Tightly and Loosely Bound Projectiles	Kaur A., Sandhu K., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sandhu, K., Department of Physics, GSSDGS Khalsa College, Punjab, Patiala, 147001, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Communications in Theoretical Physics	2018	2536102
140	Implementation Techniques for Frequency Phasor Estimation in Phasor Measurement Units (PMUs)	Jain A., Bhardwaj A., Kumar S., Bhullar S.	Jain, A., Department of Electrical Engineering, IIT BHU, Varanasi, U.P., India; Bhardwaj, A., Department of Electrical Electronics Engineering, Maharaja Agrasen University, Baddi, H.P., India; Kumar, S., Department of Electrical Engineering, IIT BHU, Varanasi, U.P., India; Bhullar, S., Department of Electrical Instrumentation Engineering, Thapar University, Patiala, Punjab, India	Proceedings - 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages, IoT-SIU 2018	2018	
141	Image Processing Based Analysis of Cracks on Vertical Walls	Vora J., Patel M., Tanwar S., Tyagi S.	Vora, J., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India, Department of Civil Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Patel, M., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed University, Patiala (Pb.), India	Proceedings - 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages, IoT-SIU 2018	2018	
142	Performance Evaluation of SDN based Virtualization for Data Center Networks	Vora J., Kaneriya S., Tanwar S., Tyagi S.	Vora, J., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kaneriya, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering Technology, Deemed University, Patiala (Pb.), India	Proceedings - 2018 3rd International Conference On Internet of Things: Smart Innovation and Usages, IoT-SIU 2018	2018	
143	Impact analysis of variation in geometrical features on intrinsic characteristics of capacitive micro-machined ultrasonic transducers	Sharma R., Agarwal R., Dubey A.K., Arora A.	Sharma, R., Amity School of Engineering and Technology, Amity University Uttar Pradesh, Noida, India; Agarwal, R., Amity School of Engineering and Technology, New Delhi, India; Dubey, A.K., Amity School of Engineering and Technology, Amity University Uttar Pradesh, Noida, India; Arora, A., Thapar University, Patiala, Punjab, India	International Journal of Engineering, Transactions B: Applications	2018	1728144X
144	Fly-Ash Incorporated Slurry and Fixed-Bed Approach for Heterogeneous Solar Photo-Fenton Degradation of Isoproturon	Verma A., Kaur G., Bansal P., Gupta S., Kumar Sangal V.	Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Kaur, G., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Bansal, P., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Gupta, S., Department of Microbiology, Mata Gujri College Fatehgarh Sahib-140406 Punjab, India; Kumar Sangal, V., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Environmental Progress and Sustainable Energy	2018	19447442
145	Photocatalytic and antibacterial potential of silver nanoparticles derived from pineapple waste: process optimization and modeling kinetics for dye removal	Agnihotri S., Sillu D., Sharma G., Arya R.K.	Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India, TIFAC Centre for Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Sillu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Sharma, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	Applied Nanoscience (Switzerland)	2018	21905509
146	Correction: Active noise control using modified FSLMS and hybrid PSOFF algorithm [Appl. Sci., 8, (2018), (686)]doi 10.3390/app8050686	Walia R., Ghosh S.	Walia, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Applied Sciences (Switzerland)	2018	20763417
147	A novel handwriting grading system using Gurmukhi characters	Kumar M., Jindal M., Sharma R.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, India; Jindal, M., Department of Computer Science and Applications, Panjab University Regional Centre, India; Sharma, R., Department of Computer Science and Engineering, Thapar University, India	International Arab Journal of Information Technology	2018	16833198
148	Role of particle size in assessment of physico-chemical properties and trace elements of Indian fly ash	Kumar S., Singh J., Mohapatra S.K.	Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Waste Management and Research	2018	0734242X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
149	Recognition of online unconstrained handwritten Gurmukhi characters based on Finite State Automata	Singh H., Sharma R.K., Singh V.P.	Singh, H., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India; Singh, V.P., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2018	2562499
150	Friction stir welding of nuclear grade SA508Gr.3Cl.1 and SS304LN dissimilar steels	Singh R.K.R., Rathod D.W., Pandey S.	Singh, R.K.R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Rathod, D.W., Department of Mechanical Engineering, Indian Institute of Technology Delhi, New Delhi, India; Pandey, S., Department of Mechanical Engineering, Indian Institute of Technology Delhi, New Delhi, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2018	9544062
151	Modeling, Optimization and Kinetic Study for Photocatalytic Treatment of Ornidazole Using Slurry and Fixed-Bed Approach	Talwar S., Sangal V.K., Verma A., Kaur P., Garg A.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Garg, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Arabian Journal for Science and Engineering	2018	2193567X
152	Buoyancy-driven convective heat transfer from a semi-circular cylinder for various confinements	Gupta R.K., Chandra A., Gupta R.K.	Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2018	2562499
153	Transition metals (Mn, Ni, Co) doping in TiO ₂ nanoparticles and their effect on degradation of diethyl phthalate	Kaur R., Singla P., Singh K.	Kaur, R., Department of Physics, Punjabi University, Patiala, Punjab, India; Singla, P., School of Physics and Materials Science, Thapar University, Patiala, Punjab, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, Punjab, India	International Journal of Environmental Science and Technology	2018	17351472
154	Secondary structure prediction of ITS rRNA region and molecular phylogeny: an integrated approach for the precise speciation of Muscodor species	Kapoor N., Gambhir L., Saxena S.	Kapoor, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Department of Microbiology, Uttaranchal (P.G) College of Biomedical Sciences and Hospital, Dehradun, Uttarakhand 248001, India; Gambhir, L., Department of Biotechnology, Shri Guru Ram Rai University, Dehradun, Uttarakhand 248001, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Annals of Microbiology	2018	15904261
155	A Bézier extraction based XIGA approach for three-dimensional crack simulations	Singh S.K., Singh I.V., Bhardwaj G., Mishra B.K.	Singh, S.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology RoorkeeUttarakhand 247667, India; Singh, I.V., Department of Mechanical and Industrial Engineering, Indian Institute of Technology RoorkeeUttarakhand 247667, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147001, India; Mishra, B.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology RoorkeeUttarakhand 247667, India	Advances in Engineering Software	2018	9659978
156	Modeling of RNA secondary structures using two-way quantum finite automata	Bhatia A.S., Kumar A.	Bhatia, A.S., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Kumar, A., Department of Computer Science, Thapar Institute of Engineering & Technology, India	Chaos, Solitons and Fractals	2018	9600779
157	Decomposition of antibiotic ornidazole by gamma irradiation in aqueous solution: kinetics and its removal mechanism	Changotra R., Guin J.P., Dhir A., Varshney L.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, -147004, India; Guin, J.P., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, -400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, -147004, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, -400085, India	Environmental Science and Pollution Research	2018	9441344
158	Macromolecular crowding-induced molten globule states of the alkali pH-denatured proteins	Kumar R., Kumar R., Sharma D., Garg M., Kumar V., Agarwal M.C.	Kumar, R., Centre for Chemical Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India, School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Kumar, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Sharma, D., Council of Scientific and Industrial Research, Institute of Microbial Technology, Sector 39A, Chandigarh, India; Garg, M., Centre for Chemical Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India; Kumar, V., Centre for Plant Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India; Agarwal, M.C., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Biochimica et Biophysica Acta - Proteins and Proteomics	2018	15709639
159	Design and analysis of a compact WiMAX and WLAN band notched planar monopole antenna for UWB and bluetooth applications	Singh H.S., Kalraiya S.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Kalraiya, S., Department of Electronics Engineering, Indian Institute of Technology (ISM), Dhanbad, Jharkhand 826004, India	International Journal of RF and Microwave Computer-Aided Engineering	2018	10964290

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
160	Fog computing for Healthcare 4.0 environment: Opportunities and challenges	Kumari A., Tanwar S., Tyagi S., Kumar N.	Kumari, A., Department of Computer Science Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, (Deemed to be University), Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, (Deemed to be University), Patiala, Punjab, India	Computers and Electrical Engineering	2018	457906
161	Fusion-based image de-fogging using dual tree complex wavelet transform	Kansal I., Kasana S.S.	Kansal, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Kasana, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India	International Journal of Wavelets, Multiresolution and Information Processing	2018	2196913
162	Influence of copper oxide nanoparticles on the thermophysical properties and performance of flat tube of vehicle cooling system	Singh Sokhal G., Gangacharyulu D., Bulasara V.K.	Singh Sokhal, G., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, C.V. Raman College of Engineering, Bhubaneswar, Odisha 752054, India	Vacuum	2018	0042207X
163	Molecular insights into the effect L17A/F19A double mutation on the structure and dynamics of Aβ40: A molecular dynamics simulation study	Saini R.K., Shuaib S., Goyal D., Goyal B.	Saini, R.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Cellular Biochemistry	2018	7302312
164	Uncertainty representation using fuzzy-entropy approach: Special application in remotely sensed high-resolution satellite images (RSRSIs)	Singh P., Dhiman G.	Singh, P., Smt. Chandaben Mohanbhai Patel Institute of Computer Applications, CHARUSAT Campus, Changa, Anand, Gujarat 388421, India; Dhiman, G., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Soft Computing Journal	2018	15684946
165	On Development and Dry Sliding Wear Behavior of Microwave Processed Ni/Al ₂ O ₃ Composite Clad	Singh B., Kaushal S., Gupta D., Bhowmick H.	Singh, B., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India; Kaushal, S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India; Bhowmick, H., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India	Journal of Tribology	2018	7424787
166	Exponential operation and aggregation operator for q-rung orthopair fuzzy set and their decision-making method with a new score function	Peng X., Dai J., Garg H.	Peng, X., School of Information Science and Engineering, Shaoguan University, Shaoguan, China; Dai, J., School of Information Science and Engineering, Shaoguan University, Shaoguan, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	International Journal of Intelligent Systems	2018	8848173
167	Preliminary Study of Chronic Liver Classification on Ultrasound Images Using an Ensemble Model	Bharti P., Mittal D., Ananthasivan R.	Bharti, P., Thapar Institute of Engineering & Technology, Patiala, India; Mittal, D., Thapar Institute of Engineering & Technology, Patiala, India; Ananthasivan, R., Manipal Hospital, Bangalore, India	Ultrasonic Imaging	2018	1617346
168	Design and development of patch compensated wideband Vivaldi antenna	Yadav R.P., Kumar V., Dhawan R.	Yadav, R.P., Thapar Institute of Engineering and Technology Punjab 147004, India; Kumar, V., Thapar Institute of Engineering and Technology Punjab 147004, India; Dhawan, R., Thapar Institute of Engineering and Technology Punjab 147004, India	International Journal of Microwave and Wireless Technologies	2018	17590787
169	Dry sliding wear behaviour of AA6082-T6/SiC/B4C hybrid metal matrix composites using response surface methodology	Singh G., Goyal S.	Singh, G., Department of Mechanical Engineering, YMCA University of Science and Technology, India, Department of Mechanical Engineering, Thapar University, India; Goyal, S., Department of Mechanical Engineering, YMCA University of Science and Technology, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207
170	Tribological behaviour of hybrid AMMC sliding against steel and cast iron under MWCNT-Oil lubrication	Singh H., Bhowmick H.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Bhowmick, H., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Tribology International	2018	0301679X
171	Steady shear and dynamic strain thickening of halloysite nanotubes and fumed silica shear thickening composite	Passey P., Singh M., Verma S.K., Bhattacharya D., Mehta R.	Passey, P., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Singh, M., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Verma, S.K., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Bhattacharya, D., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Mehta, R., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala Punjab, 147004, India	Journal of Polymer Engineering	2018	3346447
172	Characterization of chipping and tool wear during drilling of float glass using rotary ultrasonic machining	Sharma A., Jain V., Gupta D.	Sharma, A., Department of Mechanical Engineering, Thapar University, Patiala, 147001, India; Jain, V., Department of Mechanical Engineering, Thapar University, Patiala, 147001, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, 147001, India	Measurement: Journal of the International Measurement Confederation	2018	2632241

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
173	Emperor penguin optimizer: A bio-inspired algorithm for engineering problems	Dhiman G., Kumar V.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Knowledge-Based Systems	2018	9507051
174	Tunable Curie temperature of Mn _{0.6} Zn _{0.4} Fe ₂ O ₄ nanoparticles	Kaur N., Chudasama B.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Magnetism and Magnetic Materials	2018	3048853
175	Guided dynamic particle swarm optimization for optimizing digital image watermarking in industry applications	Zheng Z., Saxena N., Mishra K.K., Sangaiah A.K.	Zheng, Z., School of Computer Sci. and Tech., Huazhong University of Sci. and Tech., Wuhan, 430074, China; Saxena, N., CSED, Thapar University, Punjab, 147004, India; Mishra, K.K., CSED, MNNIT Allahabad Uttar Pradesh 211004, India; Sangaiah, A.K., School of Computing Science and Engineering, VIT University, Vellore, Tamil Nadu 632014, India	Future Generation Computer Systems	2018	0167739X
176	Multimodal medical image fusion using non-subsampled shearlet transform and pulse coupled neural network incorporated with morphological gradient	Ramlal S.D., Sachdeva J., Ahuja C.K., Khandelwal N.	Ramlal, S.D., EIED, Thapar University, Patiala, India, Department of ETE, Eternal University, Baru Sahib, India; Sachdeva, J., EIED, Thapar University, Patiala, India; Ahuja, C.K., Department of Radio-Diagnosis and Imaging, PGIMER, Chandigarh, India; Khandelwal, N., Department of Radio-Diagnosis and Imaging, PGIMER, Chandigarh, India	Signal, Image and Video Processing	2018	18631703
177	A Markov based image forgery detection approach by analyzing CFA artifacts	Singh A., Singh G., Singh K.	Singh, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2018	13807501
178	Linguistic single-valued neutrosophic prioritized aggregation operators and their applications to multiple-attribute group decision-making	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Journal of Ambient Intelligence and Humanized Computing	2018	18685137
179	Analysis of students' ratings of teaching quality to understand the role of gender and socio-economic diversity in higher education	Gupta A., Garg D., Kumar P.	Gupta, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Garg, D., Department of Computer Science and Engineering, Bennett University, Noida, 201310, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	IEEE Transactions on Education	2018	189359
180	NHAD: Neuro-Fuzzy Based Horizontal Anomaly Detection in Online Social Networks	Sharma V., Kumar R., Cheng W.-H., Atiquzzaman M., Srinivasan K., Zomaya A.Y.	Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Cheng, W.-H., Research Center for Information Technology Innovation (CITI), Academia Sinica, Taipei, 11529, Taiwan; Atiquzzaman, M., School of Computer Science, University of Oklahoma, Norman, OK 73019, United States; Srinivasan, K., Department of Computer Science and Information Engineering, National Ilan University, Yilan County, 26047, Taiwan; Zomaya, A.Y., School of Information Technologies, Building J12, University of Sydney, Sydney, NSW 2006, Australia	IEEE Transactions on Knowledge and Data Engineering	2018	10414347
181	Consumption-aware data analytical demand response scheme for peak load reduction in smart grid	Jindal A., Singh M., Kumar N.	Jindal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Industrial Electronics	2018	2780046
182	A Heuristic-Based Smart HVAC Energy Management Scheme for University Buildings	Jindal A., Kumar N., Rodrigues J.J.P.C.	Jindal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa-Rita-do-Sapuca, 37540-000, Brazil, Instituto de Telecomunicações, Lisboa, 1049-001, Portugal, ITMO University, Saint-Petersburg, 197101, Russian Federation, University of Fortaleza (UNIFOR), Fortaleza, 0811-905, Brazil	IEEE Transactions on Industrial Informatics	2018	15513203
183	A sustainable multi-parametric sensors network topology for river water quality monitoring	Jindal H., Saxena S., Kasana S.S.	Jindal, H., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Saxena, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	Wireless Networks	2018	10220038
184	Google LOON: Balloon-powered internet for everyone	Kaur S., Randhawa S.	Kaur, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Randhawa, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	AIP Conference Proceedings	2018	0094243X
185	Factors affecting financial leveraging for BSE listed real estate development companies in India	Sharma R.K.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	Journal of Financial Management of Property and Construction	2018	13664387

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
186	A quantum method for dynamic nonlinear programming technique using Schrödinger equation and Monte Carlo approach	Kaur A., Kaur S., Dhiman G.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab Patiala, 147004, India; Kaur, S., Department of Computer Science and Engineering, Dr BR Ambedkar National Institute of Technology, Punjab Jalandhar, 144011, India; Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab Patiala, 147004, India	Modern Physics Letters B	2018	2179849
187	Infrastructure financing and economic growth in India: an empirical investigation	Chotia V., Rao N.V.M.	Chotia, V., LM Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to be an University), Derabassi Campus, Mohali, Punjab, India; Rao, N.V.M., Department of Economics and Finance, Birla Institute of Technology and Science, Pilani, India	Journal of Financial Management of Property and Construction	2018	13664387
188	Power Translations for Deterrence or Stimulation of Wheelie/Wheel-stand for a Straight Moving Vehicle	Singh G.	Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, India	MATEC Web of Conferences	2018	2261236X
189	Ethical, legal, and social implications of biometric technologies	Tanwar S., Tyagi S., Kumar N., Obaidat M.S.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology Deemed to be University, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology Deemed to be University, Patiala, Punjab, India; Obaidat, M.S., ECE Department, Nazarbayev University, Astana, Kazakhstan, King Abdullah II School of Information Technology (KASIT), University of Jordan, Amman, Jordan, University of Science and Technology Beijing (USTB), Beijing, China, Fordham University, New York City, NY, United States	Biometric-Based Physical and Cybersecurity Systems	2018	
190	Online signature-based biometric recognition	Tanwar S., Obaidat M.S., Tyagi S., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Obaidat, M.S., ECE Department, Nazarbayev University, Astana, Kazakhstan, King Abdullah II School of Information Technology (KASIT), University of Jordan, Amman, Jordan, University of Science and Technology Beijing (USTB), Beijing, China, Fordham University, New York City, NY, United States; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology Deemed to be University, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology Deemed to be University, Patiala, Punjab, India	Biometric-Based Physical and Cybersecurity Systems	2018	
191	Performance Comparison of Several Feature Selection Techniques for Offline Handwritten Character Recognition	Kumar M., Jindal M.K., Sharma R.K., Ranjindal S.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Jindal, M.K., Department of Computer Science and Applications, Panjab University Regional Centre, Muktsar, Punjab, India; Sharma, R.K., Department of Computer Science Engineering, Thapar University Patiala, Punjab, India; Ranjindal, S., Computer Science Engineering, Section Yadavindra College of Engineering, Talwandi Sabo, Bathinda Punjab, India	Proceedings of the 2018 3rd IEEE International Conference on Research in Intelligent and Computing in Engineering, RICE 2018	2018	
192	Minimum preserving subsampling-based fast image de-fogging	Kansal I., Kasana S.S.	Kansal, I., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Kasana, S.S., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Journal of Modern Optics	2018	9500340
193	Experimental investigations on natural fiber embedded additive manufacturing-based biodegradable structures for biomedical applications	Mangat A.S., Singh S., Gupta M., Sharma R.	Mangat, A.S., GNDEC, Ludhiana, Ludhiana, India; Singh, S., School of Mechanical Engineering, Lovely Professional University, Phagwara, India; Gupta, M., National Institute of Technology Hamirpur, Hamirpur, India; Sharma, R., Thapar Institute of Engineering and Technology, Patiala, India	Rapid Prototyping Journal	2018	13552546
194	Origin of Prestress-Driven Optical Modulations of Flexible ZnO Thin Films Processed in Stretching Mode	Choi H.J., Jang W., Mohanty B.C., Jung Y.S., Soon A., Cho Y.S.	Choi, H.J., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Jang, W., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jung, Y.S., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Soon, A., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Cho, Y.S., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea	Journal of Physical Chemistry Letters	2018	19487185
195	Prioritized linguistic interval-valued aggregation operators and their applications in group decision-making problems	Kumar K., Garg H.	Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Mathematics	2018	22277390
196	Blog Response Volume Prediction Using Adaptive Neuro Fuzzy Inference System	Kaur H., Pannu H.S.	Kaur, H., Thapar Institute of Engineering and Technology, Patiala, Punjab147004, India; Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, Punjab147004, India	2018 9th International Conference on Computing, Communication and Networking Technologies, ICCCNT 2018	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
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198	Ensemble Classifier to Enhance Computer Aided Diagnosis of Parkinson Disease	Kaur H., Malhi A.K.	Kaur, H., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Malhi, A.K., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, India	2018 9th International Conference on Computing, Communication and Networking Technologies, ICCCNT 2018	2018	
199	A facile means for the improvement of sensing properties of metal-organic frameworks through control on the key synthesis variables	Kukkar P., Kukkar D., Sammi H., Singh K., Rawat M., Singh P., Basu S., Kim K.-H.	Kukkar, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Kukkar, D., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India, Department of Civil & Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea; Sammi, H., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Singh, K., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India; Kim, K.-H., Department of Civil & Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea	Sensors and Actuators, B: Chemical	2018	9254005
200	MEMS-based microheaters integrated gas sensors	Singh A., Sharma A., Dhull N., Arora A., Tomar M., Gupta V.	Singh, A., Department of Physics and Astrophysics, University of Delhi, Delhi, India; Sharma, A., Department of Physics, Atma Ram Sanatan Dharma College, University of Delhi, Delhi, India; Dhull, N., Department of Physics and Astrophysics, University of Delhi, Delhi, India; Arora, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Tomar, M., Department of Physics, Miranda House, University of Delhi, Delhi, India; Gupta, V., Department of Physics, Atma Ram Sanatan Dharma College, University of Delhi, Delhi, India	Integrated Ferroelectrics	2018	10584587
201	BER analysis of SFBC-OFDM system with different detection schemes over fading channels	Singh D., Joshi H.D.	Singh, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the International Symposium on Wireless Communication Systems	2018	21540217
202	Impact of intermittent wind and solar resources on the dynamics of power system under different loading conditions	Jood P., Aggarwal S.K., Chopra V.	Jood, P., EIED, Thapar University, Patiala, India; Aggarwal, S.K., EIED, Thapar University, Patiala, India; Chopra, V., EIED, Thapar University, Patiala, India	2017 14th IEEE India Council International Conference, INDICON 2017	2018	
203	EVaaS: Electric vehicle-as-a-service for energy trading in SDN-enabled smart transportation system	Aujla G.S., Jindal A., Kumar N.	Aujla, G.S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, and also with Chandigarh University, Mohali, India; Jindal, A., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Computer Networks	2018	13891286
204	Sharing two true colour images using (3, 3)-extended visual cryptography technique	Dhiman K., Kasana S.S.	Dhiman, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Modern Optics	2018	9500340
205	Alternative Metrics for Assessing Research Impact PlumX Tool to Showcase Academic Profile of Himachal Pradesh University	Ram S., Shalini	Ram, S., Central Library, Thapar University, Patiala, 147004, India; Shalini, MLIS Studen., IGNOU Study Center, Shimla, 171001, India	IEEE 5th International Symposium on Emerging Trends and Technologies in Libraries and Information Services, ETTLS 2018	2018	
206	Carbon quantum dots/TiO2 nanocomposite for sensing of toxic metals and photodetoxification of dyes with kill waste by waste concept	Mehta A., Mishra A., Kainth S., Basu S.	Mehta, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Kainth, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Materials and Design	2018	2641275
207	Effect of g-C3N4 loading on TiO2/Bentonite nanocomposites for efficient heterogeneous photocatalytic degradation of industrial dye under visible light	Mishra A., Mehta A., Kainth S., Basu S.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kainth, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2018	9258388

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
208	Remote sensing image fusion using fuzzy logic and gyrator transform	Singh D., Kaur M., Singh H.	Singh, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Punjab, India; Kaur, M., Computer Science and Engineering Department, Guru Nanak Dev University, Amritsar, Punjab, India; Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Punjab, India	Remote Sensing Letters	2018	2150704X
209	Study the parametric effect of abrasive water jet machining on surface roughness of Inconel 718 using RSM-BBD techniques	Kumar A., Singh H., Kumar V.	Kumar, A., Department of Mechanical Engineering, C.E.C. Landran, Mohali, Punjab, India; Singh, H., Department of Mechanical Engineering, N.I.T. Kurukshetra, Kurukshetra, Haryana, India; Kumar, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Materials and Manufacturing Processes	2018	10426914
210	Analysis of particles in magnetorheological polishing fluid for finishing of ferromagnetic cylindrical workpiece	Grover V., Singh A.K.	Grover, V., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Particulate Science and Technology	2018	2726351
211	Optimal power dispatch solution through multi objective formulation	Dhillon J., Kumar P., Jain S.K.	Dhillon, J., School of Electronics and Electrical Engineering, Lovely Professional University, Jalandhar, 144411, India; Kumar, P., School of Electronics and Electrical Engineering, Lovely Professional University, Jalandhar, 144411, India; Jain, S.K., Thapar University, Patiala, Punjab, 147004, India	Proceedings - 2nd International Conference on Intelligent Circuits and Systems, ICICS 2018	2018	
212	Transmission analysis of 112 Gbps dual polarization QPSK/16QAM using coherent receiver with digital signal processing	Mehandiratta G., Kaler R.S., Kaur G.	Mehandiratta, G., SCSE, Lovely Professional University, Jalandhar, Punjab, India; Kaler, R.S., Department of Electronics and Communication, Thapar University, Patiala, Punjab, 147004, India; Kaur, G., Department of Electronics and Communication, Thapar University, Patiala, Punjab, 147004, India	Proceedings - 2nd International Conference on Intelligent Circuits and Systems, ICICS 2018	2018	
213	PSO based Multiobjective Optimization for parameter adaptation in CR based IoTs.	Kaur A., Kaur A., Sharma S.	Kaur, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India	International Conference on "Computational Intelligence and Communication Technology", CICT 2018	2018	
214	Degradation of polypropylene-poly-L-lactide blend by bacteria isolated from compost	Jain K., Bhunia H., Sudhakara Reddy M.	Jain, K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Bioremediation Journal	2018	10889868
215	An overview of solid base heterogeneous catalysts for biodiesel production	Marwaha A., Dhir A., Mahla S.K., Mohapatra S.K.	Marwaha, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Hoshiarpur, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Catalysis Reviews - Science and Engineering	2018	1614940
216	Providing security and privacy to huge and vulnerable songs repository using visual cryptography	Shivani S., Tiwari S., Mishra K.K., Zheng Z., Sangaiah A.K.	Shivani, S., Thapar University, Patiala, India; Tiwari, S., Thapar University, Patiala, India; Mishra, K.K., University of Missouri, Columbia, MO 65211, United States; Zheng, Z., Huazhong University of Science and Technology, Wuhan, China; Sangaiah, A.K., VIT University, Vellore, India	Multimedia Tools and Applications	2018	13807501
217	Wavelet and KICA based ECG Beat Classification for Cardiac Health Care	Rajpal N., Singh R., Mehta R.	Rajpal, N., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Singh, R., USICT, Guru Gobind Singh Indraprastha University, Research Scholar, Dwarka, New-Delhi, India; Mehta, R., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2018 4th International Conference for Convergence in Technology, I2CT 2018	2018	
218	Study of real time face recognition using few shot recognition techniques	Singh P., Srivastava S., Rai A., Cheema A.S.	Singh, P., Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, S., Centre for Development of Advanced Computing, Noida, India; Rai, A., Centre for Development of Advanced Computing, Noida, India; Cheema, A.S., Centre for Development of Advanced Computing, Noida, India	Proceedings of the 3rd International Conference on Contemporary Computing and Informatics, IC3I 2018	2018	
219	Characterization study of a grid connected DFIG based WECS under variable wind speed and loading conditions	Roy A.K., Basak P., Biswal G.R.	Roy, A.K., Thapar Institute of Engineering and Technology, Patiala Electrical and Instrumentation Engineering, Punjab, India; Basak, P., Thapar Institute of Engineering and Technology, Patiala Electrical and Instrumentation Engineering, Punjab, India; Biswal, G.R., Veer Surendra Sai University of Technology, Burla Department of Electrical Engineering and EEE, Odisha, India	2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, ICPEICES 2018	2018	
220	Load frequency control of two area interconnected power system using sssc with PID, fuzzy and neural network based controllers	Lone A.H., Yousuf V., Prakash S., Bazaz M.A.	Lone, A.H., Thapar Institute of Engineering and Technology, Electrical Engineering Department, Patiala, India; Yousuf, V., National Institute of Technology Srinagar, Electrical Engineering Department, Srinagar, India; Prakash, S., Thapar Institute of Engineering and Technology, Electrical Engineering Department, Patiala, India; Bazaz, M.A., National Institute of Technology Srinagar, Electrical Engineering Department, Srinagar, India	2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, ICPEICES 2018	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
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222	A game of incentives: An efficient demand response mechanism using fleet of electric vehicles	Kaur K., Kumar N., Garg S., Zomaya A.Y.	Kaur, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Garg, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Zomaya, A.Y., School of Information Technologies, J12, University of SydneyNSW 2006, Australia	Proceedings of the Annual International Conference on Mobile Computing and Networking, MOBICOM	2018	
223	Critical success factors of agri-business incubators and their impact on business performance	Bose S.C., Kiran R., Goyal D.	Bose, S.C., School of Humanities & Social Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kiran, R., School of Humanities and Social Sciences, Alumni Relations Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goyal, D., Thapar Science and Technology Park and Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Custos e Agronegocio	2018	18082882
224	Performance evaluation of chaos based IDMA scheme using joint turbo equalization over frequency selective fading channel	Shukla A., Bansal A., Goyal V., Karanveer, Deolia V.K.	Shukla, A., Department of Electronics and Communication, GLA University, Mathura, 281406, India; Bansal, A., Department of Electronics and Communication, GLA University, Mathura, 281406, India; Goyal, V., Department of Electronics and Communication, GLA University, Mathura, 281406, India; Karanveer, Department of Electrical and Instrumentation, Thapar University, Patiala, India; Deolia, V.K., Department of Electronics and Communication, GLA University, Mathura, 281406, India	Journal of Telecommunication, Electronic and Computer Engineering	2018	21801843
225	An efficient fully differential voltage comparator	Gupta A., Agarwal A.	Gupta, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Engineering Science and Technology	2018	18234690
226	Applications of sunlight responsive Fe-Ag-TiO2 composite incorporating in-situ dual effect for the degradation of pentoxifylline	Bansal P., Verma A.	Bansal, P., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India	Materials Science and Engineering: B	2018	9215107
227	Various characteristics of transition energy for nearly symmetric colliding nuclei	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kumar, S., Department of Physics, Central University of Haryana Jatt-Pali, Mahendergarh, Haryana, India	International Journal of Modern Physics E	2018	2183013
228	Beta Chaotic Map Based Image Encryption Using Genetic Algorithm	Kaur M., Kumar V.	Kaur, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, 147003, India; Kumar, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, 147003, India	International Journal of Bifurcation and Chaos	2018	2181274
229	Synergistic effect of selenium and UV-B radiation in enhancing antioxidant level of wheatgrass grown from selenium rich wheat	Jaiswal S.K., Prakash R., Skalny A.V., Skalnaya M.G., Grabeklis A.R., Skalnaya A.A., Tinkov A.A., Zhang F., Guo X., Prakash N.T.	Jaiswal, S.K., School of Energy and Environment & School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Prakash, R., School of Energy and Environment & School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Skalny, A.V., Trace Element Institute (UNESCO), Yaroslavl State University, Sovetskaya St., 14, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Miklukho-Maklaya St., 6, Moscow, 105064, Russian Federation, Department of Personalized Medicine, Orenburg State University, Pobedy Ave. 13, Orenburg, 460352, Russian Federation, Director, Trace Element Institute for UNESCO, Lyon, France; Skalnaya, M.G., Trace Element Institute (UNESCO), Yaroslavl State University, Sovetskaya St., 14, Yaroslavl, 150000, Russian Federation; Grabeklis, A.R., Trace Element Institute (UNESCO), Yaroslavl State University, Sovetskaya St., 14, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Miklukho-Maklaya St., 6, Moscow, 105064, Russian Federation; Skalnaya, A.A., Department of Biological Chemistry, Orenburg State Medical University, Sovetskaya St. 6, Orenburg, 460000, Russian Federation; Tinkov, A.A., Trace Element Institute (UNESCO), Yaroslavl State University, Sovetskaya St., 14, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Miklukho-Maklaya St., 6, Moscow, 105064, Russian Federation, Department of Biological Chemistry, Orenburg State Medical University, Sovetskaya St. 6, Orenburg, 460000, Russian Federation; Zhang, F., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Guo, X., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Prakash, N.T., School of Energy and Environment & School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Journal of Food Biochemistry	2018	1458884
230	Clay supported TiO2 nanoparticles for photocatalytic degradation of environmental pollutants: A review	Mishra A., Mehta A., Basu S.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Environmental Chemical Engineering	2018	22133437

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
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232	Performance of low-cost country sourcing projects – Conceptual model & empirical analysis	Moser R., Narayanamurthy G., Kusaba K., Kaiser G.	Moser, R., Research Institute for International Management, University of St.Gallen (HSG), Dufourstrasse 40a, St.Gallen, CH-9000, Switzerland, Indian Institute of Management Udaipur, Rajasthan, 313001, India; Narayanamurthy, G., University of Liverpool Management School, Chatham Street, Liverpool, United Kingdom, LM Thapar School of Management, Thapar University, Patiala, India; Kusaba, K., McKinsey Analytics, McKinsey & Company, Inc., Berlin, Germany; Kaiser, G., Department of Economic and Social Sciences, Nordhausen University of Applied Sciences, Weinberghof 4, Nordhausen, 99734, Germany	International Journal of Production Economics	2018	9255273
233	Neurocomputing approach to matrix product state using quantum dynamics	Bhatia A.S., Kumar A.	Bhatia, A.S., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India	Quantum Information Processing	2018	15700755
234	Addition of nanomer clays to GFRPs for enhanced impact strength and fracture toughness	Shelly D., Singh K., Nanda T., Mehta R.	Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Materials Research Express	2018	20531591
235	Neural Network Ensemble and Jaya Algorithm Based Diagnosis of Brain Tumor Using MRI Images	Kaur K., Kaur Walia G., Kaur J.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur Walia, G., Department of Electronics and Communication Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab 141006, India; Kaur, J., Department of Electronics and Communication Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab 141006, India	Journal of The Institution of Engineers (India): Series B	2018	22502106
236	Adaptive variable order polynomial based digital zoom of images	Bhushan V., Kumar V.	Bhushan, V., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	Multimedia Tools and Applications	2018	13807501
237	An integrated framework for identification of effective and synergistic anti-cancer drug combinations	Sharma A., Rani R.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Bioinformatics and Computational Biology	2018	2197200
238	BE-DTI: Ensemble framework for drug target interaction prediction using dimensionality reduction and active learning	Sharma A., Rani R.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Computer Methods and Programs in Biomedicine	2018	1692607
239	Parametric effect of vibrational drilling on osteonecrosis and comparative histopathology study with conventional drilling of cortical bone	Singh G., Jain V., Gupta D., Sharma A.	Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Sharma, A., Department of Pathology, Maharishi Markandeshwar Institute of Medical Sciences & Research (Deemed to be University), Mullana, Ambala, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2018	9544119
240	Stockwell-common spatial pattern technique for motor imagery-based Brain Computer Interface design	Sethi S., Upadhyay R., Singh H.S.	Sethi, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Upadhyay, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, H.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computers and Electrical Engineering	2018	457906
241	Adaptive ball drop algorithm for toolpath generation of axisymmetric triangulated parts to eliminate overcutting	Jawanda A.S., Batish A., Bedi S.	Jawanda, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab 147 001, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab 147 001, India; Bedi, S., Department of Mechanical & Mechatronics Engineering, University of Waterloo, Waterloo, ON N2L 3G1, Canada	International Journal of Advanced Manufacturing Technology	2018	2683768
242	Hadoop-based analytic framework for cyber forensics	Chhabra G.S., Singh V., Singh M.	Chhabra, G.S., Computer Science and Engineering Department, Thapar University, Patiala, India; Singh, V., Computer Science and Engineering Department, Thapar University, Patiala, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, India	International Journal of Communication Systems	2018	10745351
243	Hydrothermal synthesis of Eu3+-doped Gd2O3 nanophosphors and its Judd-Ofelt analysis	Priya R., Pandey O.P.	Priya, R., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Vacuum	2018	0042207X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
244	Healthcare systems and corporate social responsibility communication: A comparative analysis between Malta and India	Tomaselli G., Garg L., Gupta V., Xuereb P.A., Buttigieg S.C., Vassallo P.	Tomaselli, G., University of Malta, Msida, Malta; Garg, L., University of Malta, Msida, Malta; Gupta, V., Thapar University, Punjab, India; Xuereb, P.A., University of Malta, Msida, Malta; Buttigieg, S.C., University of Malta, Msida, Malta; Vassallo, P., University of Malta, Msida, Malta	Journal of Global Information Management	2018	10627375
245	Comprehensive study of memory loss for mass symmetric colliding nuclei at intermediate energy	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University Gharuan, Mohali, Punjab 140413, India	Nuclear Physics A	2018	3759474
246	E-marketing strategies for Islamic banking: A case based study	Roumieh A., Garg L., Gupta V., Singh G.	Roumieh, A., University of Liverpool, Liverpool, United Kingdom; Garg, L., University of Malta, Msida, Malta; Gupta, V., Thapar Institute of Engineering and Technology, Patiala, India; Singh, G., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Global Information Management	2018	10627375
247	Modular manipulators for cluttered environments: A task-based configuration design approach	Singh S., Singla A., Singla E.	Singh, S., Clinical Affairs Department, Bio-Medical Engineering (HK) Ltd., Cyberport, Hong Kong; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, E., Mechanical Engineering Department, Indian Institute of Technology Ropar, Rupnagar, 140001, India	Journal of Mechanisms and Robotics	2018	19424302
248	Enhancement in anti-tubercular activity of indole based thiosemicarbazones on complexation with copper(I) and silver(I) halides: Structure elucidation, evaluation and molecular modelling	Khan A., Jasinski J.P., Smolenski V.A., Hotchkiss E.P., Kelley P.T., Shalit Z.A., Kaur M., Paul K., Sharma R.	Khan, A., Department of Chemistry, Lovely Professional University, Phagwara, Punjab, India; Jasinski, J.P., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Smolenski, V.A., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Hotchkiss, E.P., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Kelley, P.T., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Shalit, Z.A., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Kaur, M., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, R., Department of Chemistry, Lovely Professional University, Phagwara, Punjab, India	Bioorganic Chemistry	2018	452068
249	Assessment of reaction intermediates of gamma radiation-induced degradation of ofloxacin in aqueous solution	Changotra R., Guin J.P., Varshney L., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guin, J.P., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemosphere	2018	456535
250	Dual Hesitant Fuzzy Soft Aggregation Operators and Their Application in Decision-Making	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Cognitive Computation	2018	18669956
251	Structural, electrical, magnetic and magnetoelectric properties of Co-doped BaTiO ₃ multiferroic ceramics	Rani A., Kolte J., Gopalan P.	Rani, A., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gopalan, P., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Ceramics International	2018	2728842
252	Adsorption and thermodynamic studies of pure and binary CO ₂ and N ₂ gas components on nitrogen enriched nanostructured carbon adsorbents	Tiwari D., Bhunia H., Bajpai P.K.	Tiwari, D., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of Chemical Thermodynamics	2018	219614

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
253	Use of Protein Kinase-Focused Compound Libraries for the Discovery of New Inositol Phosphate Kinase Inhibitors	Puhl-Rubio A.C., Stashko M.A., Wang H., Hardy P.B., Tyagi V., Li B., Wang X., Kireev D., Jessen H.J., Frye S.V., Shears S.B., Pearce K.H.	Puhl-Rubio, A.C., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States; Stashko, M.A., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States; Wang, H., Signal Transduction Laboratory, National Institute of Environmental Health Sciences, Research Triangle Park, NC, United States; Hardy, P.B., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States; Tyagi, V., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Li, B., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States; Wang, X., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States; Jessen, H.J., Institute of Organic Chemistry, Albert-Ludwigs-University of Freiburg, Freiburg, Germany; Frye, S.V., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States; Shears, S.B., Signal Transduction Laboratory, National Institute of Environmental Health Sciences, Research Triangle Park, NC, United States; Pearce, K.H., Center for Integrative Chemical Biology and Drug Discovery, Chemical Biology and Medicinal Chemistry, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC, United States	SLAS Discovery	2018	24725552
254	Detoxification of real pharmaceutical wastewater by integrating photocatalysis and photo-Fenton in fixed-mode	Bansal P., Verma A., Talwar S.	Bansal, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Talwar, S., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Chemical Engineering Journal	2018	13858947
255	Spermine detection from urine and blood serum using ionic self-assembly of benzimidazolium based dipod and dodecylsulfate	Tripathi N., Singh P., Luxami V., Mahajan D., Kumar S.	Tripathi, N., Department of Chemistry, Centre of Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Singh, P., Department of Chemistry, Centre of Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mahajan, D., Drug Discovery Research Center, Translational Health Sciences and Technology Institute, Faridabad, 121001, India; Kumar, S., Department of Chemistry, Centre of Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	Sensors and Actuators, B: Chemical	2018	9254005
256	Efficient classification of the hyperspectral images using deep learning	Singh S., Kasana S.S.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2018	13807501
257	Image forensics using color illumination, block and key point based approach	Thakur A., Jindal N.	Thakur, A., ECED, Thapar University, Patiala, India; Jindal, N., ECED, Thapar University, Patiala, India	Multimedia Tools and Applications	2018	13807501
258	Arcopilus aureus, a Resveratrol-Producing Endophyte from Vitis vinifera	Dwibedi V., Saxena S.	Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Biochemistry and Biotechnology	2018	2732289
259	Novel correlation coefficients under the intuitionistic multiplicative environment and their applications to decision-making process	Garg H.	Garg, H., Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Journal of Industrial and Management Optimization	2018	15475816
260	Dehazing of outdoor images using notch based integral guided filter	Singh D., Kumar V.	Singh, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2018	13807501
261	A RGB image encryption technique using Lorenz and Rossler chaotic system on DNA sequences	Girdhar A., Kumar V.	Girdhar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2018	13807501
262	High-Capacity Reversible Data Hiding Using Modified Pixel Value Ordering Approach	Jain N.K., Kasana S.S.	Jain, N.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Circuits, Systems and Computers	2018	2181266

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
263	Tensor-Based Big Data Management Scheme for Dimensionality Reduction Problem in Smart Grid Systems: SDN Perspective	Kaur D., Aujla G.S., Kumar N., Zomaya A.Y., Perera C., Ranjan R.	Kaur, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Lovely Professional University, Phagwara, Punjab, 144411, India; Aujla, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Computer Science and Engineering Department, Chandigarh University, Gharuan, Mohali, Punjab, 140413, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Zomaya, A.Y., School of Information Technologies, J12, University of SydneyNSW 2006, Australia; Perera, C., Open University, Milton Keynes, MK7 6AA, United Kingdom; Ranjan, R., Chinese University of Geoscience, Wuhan, China, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom	IEEE Transactions on Knowledge and Data Engineering	2018	10414347
264	Distance measures for connection number sets based on set pair analysis and its applications to decision-making process	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, (Deemed University), Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering & Technology, (Deemed University), Patiala, Punjab 147004, India	Applied Intelligence	2018	0924669X
265	Fabrication of core-shell PLGA/PLA-pNIPAM nanocomposites for improved entrapment and release kinetics of antihypertensive drugs	Basu T., Pal B., Singh S.	Basu, T., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Particuology	2018	16742001
266	Quantitative Detection of Thiopurines by Inter-particle Distance-Dependent Properties of Gold Nanoparticles	Kainth S., Basu S.	Kainth, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India	Plasmonics	2018	15571955
267	DFuzzy: a deep learning-based fuzzy clustering model for large graphs	Bhatia V., Rani R.	Bhatia, V., Department of Computer Science and Engineering, Thapar University, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, India	Knowledge and Information Systems	2018	2191377
268	Fuzzified Cuckoo based Clustering Technique for Network Anomaly Detection	Garg S., Batra S.	Garg, S., Computer Science & Engineering Department, Thapar University, Patiala, (Punjab), India; Batra, S., Computer Science & Engineering Department, Thapar University, Patiala, (Punjab), India	Computers and Electrical Engineering	2018	457906
269	A novel bat flower pollination algorithm for synthesis of linear antenna arrays	Salgotra R., Singh U.	Salgotra, R., Department of ECE, Thapar University, Patiala, India; Singh, U., Department of ECE, Thapar University, Patiala, India	Neural Computing and Applications	2018	9410643
270	Improved Cuckoo Search with Better Search Capabilities for Solving CEC2017 Benchmark Problems	Salgotra R., Singh U., Saha S.	Salgotra, R., Dept. of Electronics and Communication, Thapar University, Patiala, India; Singh, U., Dept. of Electronics and Communication, Thapar University, Patiala, India; Saha, S., Dept. of Computer Science, Indian Institute of Technology, Patna, India	2018 IEEE Congress on Evolutionary Computation, CEC 2018 - Proceedings	2018	
271	A Review: Cryptography and Steganography Algorithm for Cloud Computing	Singla S., Bala A.	Singla, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, India; Bala, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, India	Proceedings of the International Conference on Inventive Communication and Computational Technologies, ICICCT 2018	2018	
272	A Streamlined Approach for Real-Time Data Analytics	Arora S., Rani R.	Arora, S., Department of Computer Sc. and Engg., Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Sc. and Engg., Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the International Conference on Inventive Communication and Computational Technologies, ICICCT 2018	2018	
273	Cognitive decision engine design for CR based IoTs using Differential Evolution and Bat Algorithm	Kaur A., Kaur A., Sharma S.	Kaur, A., Department of Electronics and Communication Engineering, Institute of Engineering and Technology (TIET)Punjab, India; Kaur, A., Department of Electronics and Communication Engineering, Institute of Engineering and Technology (TIET)Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Institute of Engineering and Technology (TIET)Punjab, India	2018 5th International Conference on Signal Processing and Integrated Networks, SPIN 2018	2018	
274	A novel characterization method of fiber reinforced polymers with clustered microstructures for time dependent mass transfer	Jain D., Mukherjee A., Bera T.K.	Jain, D., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Mukherjee, A., Department of Civil Engineering, Curtin University, Bentley, WA 6102, Australia; Bera, T.K., Mechanical Engineering Department, Thapar University, Patiala, 147004, India	IEEE Journal of Selected Topics in Quantum Electronics	2018	7921233

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
275	CO ₂ adsorption on oxygen enriched nanostructured carbons derived from silica templated resorcinol-formaldehyde	Tiwari D., Kaur S., Bhunia H., Bajpai P.K.	Tiwari, D., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Kaur, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of Industrial and Engineering Chemistry	2018	1226086X
276	Optimization of biodiesel production from grape seed oil using Taguchi's orthogonal array	Singh G., Mohapatra S.K., S. Ragit S., Kundu K.	Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; S. Ragit, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kundu, K., Department of Biofuel, CSIR CMERI CoFEM, Ludhiana, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2018	15567036
277	Factors defining the effects of macromolecular crowding on dynamics and thermodynamic stability of heme proteins in-vitro	Kumar R., Sharma D., Kumar V., Kumar R.	Kumar, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Sharma, D., Council of Scientific and Industrial Research, Institute of Microbial Technology, Sector 39A, Chandigarh, India; Kumar, V., Department of Plant Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India; Kumar, R., Department of Chemical Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India, School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Archives of Biochemistry and Biophysics	2018	39861
278	Influence of graphitic/amorphous coated carbon on HER activity of low temperature synthesized B-Mo ₂ C@C nanocomposites	Mir R.A., Pandey O.P.	Mir, R.A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Chemical Engineering Journal	2018	13858947
279	A computational study of liquid–solid interfacial free energy (γ) for SW-Ge potential model	Gautam A.K., Chandra A.	Gautam, A.K., Chemical Engineering Department, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Jalandha, Punjab 144411, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, 147004, India	Physica A: Statistical Mechanics and its Applications	2018	3784371
280	Ap-FSM: A parallel algorithm for approximate frequent subgraph mining using Prege1	Bhatia V., Rani R.	Bhatia, V., Department of Computer Science and Engineering, Thapar University, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, India	Expert Systems with Applications	2018	9574174
281	Symmetric triangular interval type-2 intuitionistic fuzzy sets with their applications in multi criteria decision making	Singh S., Garg H.	Singh, S., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India	Symmetry	2018	20738994
282	Design and simulation of 8-cavity hole-slot type magnetron in CST	Khatoon S., Yadav R.P., Jain A.	Khatoon, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 2nd International Conference on Electronics, Materials Engineering and Nano-Technology, IEMENTech 2018	2018	
283	History of ZIKV infections in India and management of disease outbreaks	Khaiboullina S., Uppal T., Martynova E., Rizvanov A., Baranwal M., Verma S.C.	Khaiboullina, S., Department of Microbiology and Immunology, Reno School of Medicine, University of Nevada, Reno, NV, United States, Department of Exploratory Research, Scientific and Educational Center of Pharmaceutics, Kazan Federal University, Kazan, Russian Federation; Uppal, T., Department of Microbiology and Immunology, Reno School of Medicine, University of Nevada, Reno, NV, United States; Martynova, E., Department of Exploratory Research, Scientific and Educational Center of Pharmaceutics, Kazan Federal University, Kazan, Russian Federation; Rizvanov, A., Department of Exploratory Research, Scientific and Educational Center of Pharmaceutics, Kazan Federal University, Kazan, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Verma, S.C., Department of Microbiology and Immunology, Reno School of Medicine, University of Nevada, Reno, NV, United States	Frontiers in Microbiology	2018	1664302X
284	"8A" framework for value stream selection – an empirical case study	Narayanamurthy G., Gurumurthy A., Moser R.	Narayanamurthy, G., University of St Gallen, St Gallen, Switzerland, LM Thapar School of Management, Mohali, India; Gurumurthy, A., Quantitative Methods and Operations Management (QM & OM) Area, Indian Institute of Management Kozhikode (IIMK), Kozhikode, India; Moser, R., Institute for International Management, University of St Gallen, St Gallen, Switzerland, Business Policy and Strategy, Indian Institute of Management Udaipur (IIMU), Udaipur, India	Journal of Organizational Change Management	2018	9534814
285	Economic and environmental evaluation of municipal solid waste management system using industrial ecology approach: Evidence from India	Singh A., Basak P.	Singh, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Cleaner Production	2018	9596526

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
286	A survey of prediction-based resource scheduling techniques for physics-based scientific applications	Kaur G., Bala A.	Kaur, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bala, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Modern Physics Letters B	2018	2179849
287	A four-way decision-making system for the Indian summer monsoon rainfall	Singh P., Rabadiya K., Dhiman G.	Singh, P., SMT. Chandaben Mohanbhai Patel Institute of Computer Applications, Charusat Campus, Changa, Anand, Gujarat, 388421, India; Rabadiya, K., SMT. Chandaben Mohanbhai Patel Institute of Computer Applications, Charusat Campus, Changa, Anand, Gujarat, 388421, India; Dhiman, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters B	2018	2179849
288	Fourth-order partial differential equations based anisotropic diffusion model for low-dose CT images	Pathak Y., Arya K.V., Tiwari S.	Pathak, Y., Multimedia and Information Security Research Group, ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India; Arya, K.V., Multimedia and Information Security Research Group, ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Modern Physics Letters B	2018	2179849
289	An optimal data aggregation technique for physics-based applications	Joshi U., Sharma R.	Joshi, U., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Modern Physics Letters B	2018	2179849
290	Pilot-scale single-step reactor combining photocatalysis and photo-Fenton aiming at faster removal of Cephalexin	Bansal P., Verma A.	Bansal, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Cleaner Production	2018	9596526
291	Dispersion-managed soliton fiber laser with random dispersion, multiphoton absorption and gain dispersion	Parmar G.S., Pradhan R., Malomed B.A., Jana S.	Parmar, G.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Pradhan, R., Department of Physics, Midnapore College, Midnapore, India; Malomed, B.A., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, PO Box 39040, Tel Aviv, Israel, Center for Light-Matter Interaction, Tel Aviv University, PO Box 39040, Tel Aviv, Israel; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Optics (United Kingdom)	2018	20408978
292	Nodal integral method for convection-diffusion transport using linear and higher order quadrilateral elements	Sharma R.P., Kumar N.	Sharma, R.P., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India, Department of Energy Science & Engineering, IIT Bombay, Mumbai, India; Kumar, N., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Numerical Heat Transfer, Part B: Fundamentals	2018	10407790
293	Enantioselective total syntheses of (-)-clavaminol A and deacetyl (+)-clavaminol H	Pandey R., Gehlawat A., Prakash R., Kumar Pandey S.	Pandey, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Gehlawat, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Kumar Pandey, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, India	Synthetic Communications	2018	397911
294	Channel estimation and long-range prediction of fast fading channels for adaptive OFDM system	Kapoor D.S., Kohli A.K.	Kapoor, D.S., Electronics & Communication Engineering Department, Thapar University, Patiala, India; Kohli, A.K., Electronics & Communication Engineering Department, Thapar University, Patiala, India	International Journal of Electronics	2018	207217
295	Determination of Required Reinforcement Force in Geosynthetic Reinforced Soil Walls Under Seismic Loadings	Ganesh R., Chandaluri V.K.	Ganesh, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chandaluri, V.K., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India	International Journal of Geosynthetics and Ground Engineering	2018	21999260
296	Hybridizing J48 and SVM for predicting sale and purchase of property	Kaur G., Kaur H.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	
297	PSO optimized nested slot structure RFID tag antenna at 5.8 GHz for metallic applications	Bansal A., Sethi G., Sharma S.	Bansal, A., ECED, TIET, Patiala, India; Sethi, G., ECED, TIET, Patiala, India; Sharma, S., ECED, TIET, Patiala, India	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	
298	Multiplicative filter design using S-transform	Ranjan R., Jindal N., Singh A.K.	Ranjan, R., Electronics and Communication Engineering, Department Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Electronics and Communication Engineering, Department Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Electronics and Communication Engineering, Department Thapar Institute of Engineering and Technology, Patiala, India	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
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300	Novel staircase microstrip antenna with L-Shape slotted dgs for WLAN and WiMAX application	Singh J., Kaur J., Kaur N.	Singh, J., Electronics and Communiactions, Thapar Institute of engg. and technology, Patiala, India; Kaur, J., Electronics and Communiactions, Thapar Institute of engg. and technology, Patiala, India; Kaur, N., Electronics and Communiactions, Thapar Institute of engg. and technology, Patiala, India	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	
301	Factual dimension identification and usage for real estate framework	Kaur G., Kaur H.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	
302	An efficient mobility model for improving transmissions in multi-UAVs enabled WSNs	Abuzar Sayeed M., Kumar R.	Abuzar Sayeed, M., Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kumar, R., Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India	Drones	2018	2504446X
303	Transformation products and degradation pathway of textile industry wastewater pollutants in Electro-Fenton process	Kaur P., Kushwaha J.P., Sangal V.K.	Kaur, P., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Chemosphere	2018	456535
304	Endophytic fungi: A source of potential antifungal compounds	Deshmukh S.K., Gupta M.K., Prakash V., Saxena S.	Deshmukh, S.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Gupta, M.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Prakash, V., Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, 211004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Deemed to be a University, Patiala, Punjab 147004, India	Journal of Fungi	2018	2309608X
305	Mangrove-associated fungi: A novel source of potential anticancer compounds	Deshmukh S.K., Gupta M.K., Prakash V., Sudhakara Reddy M.	Deshmukh, S.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Gupta, M.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Prakash, V., Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, 211004, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Fungi	2018	2309608X
306	Optimizing the design of airfoil and optical buffer problems using spotted hyena optimizer	Dhiman G., Kaur A.	Dhiman, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Designs	2018	24119660
307	Equal: energy and QoS aware resource allocation approach for CloudS	Kumar A., Kumar R., Sharma A.	Kumar, A., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Kumar, R., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Sharma, A., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India	Computing and Informatics	2018	13359150
308	On generalized q-series and split (n + t)-color partitions	Rana M., Sareen J.K., Chawla D.	Rana, M., School of Mathematics and Computer Applications, Thapar University, Patiala, Punjab, 147001, India; Sareen, J.K., School of Mathematics and Computer Applications, Thapar University, Patiala, Punjab, 147001, India; Chawla, D., School of Mathematics and Computer Applications, Thapar University, Patiala, Punjab, 147001, India	Utilitas Mathematica	2018	3153681
309	Characterization of chronic liver disease based on ultrasound images using the variants of grey-level difference matrix	Bharti P., Mittal D., Ananthasivan R.	Bharti, P., Department of Electrical and Instrumental Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mittal, D., Department of Electrical and Instrumental Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ananthasivan, R., Department of Radiology, Manipal Hospitals, Bangalore, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2018	9544119
310	Masses and strong decay properties of radially excited bottom states B(2S) and B(2P) with their strange partners Bs(2S) and Bs(2P)	Gupta P., Upadhyay A.	Gupta, P., School of Physics and Materials Science, TIET, Patiala, Punjab 147004, India; Upadhyay, A., School of Physics and Materials Science, TIET, Patiala, Punjab 147004, India	European Physical Journal A	2018	14346001

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
311	Antioxidant and Immune Effects of Water Soluble Polysaccharides Isolated from Cinnamomum verum Bark	Goyal M., Kaur H., Bhandari M., Rizvanov A.A., Khaiboullina S.F., Baranwal M.	Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, H., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhandari, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Tatarstan 420008, Russian Federation; Khaiboullina, S.F., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Tatarstan 420008, Russian Federation, Department of Microbiology and Immunology, University of Nevada, Reno, NV 89557, United States; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	BioNanoScience	2018	21911630
312	Enhanced acetone detection using Au doped ZnO thin film sensor	Deshwal M., Arora A.	Deshwal, M., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Arora, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Science: Materials in Electronics	2018	9574522
313	Simulating Fraunhofer diffraction of waves using microsoft excel spreadsheet	Singh I., Khun Khun K., Kaur B.	Singh, I., PG Department of Physics, Khalsa College, Amritsar, 143005, India; Khun Khun, K., PG Department of Physics, Khalsa College, Amritsar, 143005, India; Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physics Education	2018	319120
314	Obstacle Avoidance of Bicycle Vehicle Model using Overwhelming Controller	Singh R., Bera T.K.	Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Thapar Institute of Engineering and Technology (Deemed University) (Earlier-Thapar University), Patiala, 147004, India	Arabian Journal for Science and Engineering	2018	2193567X
315	Secure Biometric-Based Authentication Scheme Using Chebyshev Chaotic Map for Multi-Server Environment	Chatterjee S., Roy S., Das A.K., Chattopadhyay S., Kumar N., Vasilakos A.V.	Chatterjee, S., Research Center Imarat, Defence Research and Development Organization, Hyderabad, 500 069, India; Roy, S., Department of Computer Science and Engineering, Asansol Engineering College, Asansol, 713 305, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Chattopadhyay, S., Department of Information Technology, Jadavpur University, Salt Lake City, Kolkata, 700 098, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, 147004, India; Vasilakos, A.V., Department of Computer Science, Electrical and Space Engineering, Lulea University of Technology, Lulea, 971 87, Sweden	IEEE Transactions on Dependable and Secure Computing	2018	15455971
316	An Improved Tent Map-Adaptive Chaotic Particle Swarm Optimization (ITM-CPSO)-Based Novel Approach Toward Security Constraint Optimal Congestion Management	Batra I., Ghosh S.	Batra, I., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147003, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147003, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2018	22286179
317	Isolation of multi-metal tolerant ubiquitin fusion protein from metal polluted soil by metatranscriptomic approach	Thakur B., Yadav R., Fraissinet-Tachet L., Marmeisse R., Sudhakara Reddy M.	Thakur, B., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Yadav, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Fraissinet-Tachet, L., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Marmeisse, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Microbiological Methods	2018	1677012
318	Role of pH on the photocatalytic activity of TiO2 tailored by W/T mole ratio	Kaur H., Kumar S., Verma N.K., Singh P.	Kaur, H., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140407, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140407, India; Verma, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140407, India	Journal of Materials Science: Materials in Electronics	2018	9574522
319	Preparation of YZT a mixed conductor by microwave processing: A different mechanism in the solid state thermochemical reaction	Mago S., Sharma C., Mehra R., Pandey O.P., Singh K.L., Singh A.P.	Mago, S., Research Scholar, Punjab Technical University, Jalandhar, India; Sharma, C., Research Scholar, Punjab Technical University, Jalandhar, India; Mehra, R., B.R. Ambedkar National Institute of Technology, Jalandhar, India; Pandey, O.P., Thapar Institute of Engineering and Technology, Patiala, India; Singh, K.L., DAV Institute of Engineering & Technology, Jalandhar, India; Singh, A.P., Punjab Technical University, Jalandhar, India	Materials Chemistry and Physics	2018	2540584
320	Performance analysis of κ - μ /gamma shadowed fading model over indoor off body communication channel	Shankar H., Kansal A.	Shankar, H., Thapar University, India; Kansal, A., Thapar University, India	AEU - International Journal of Electronics and Communications	2018	14348411

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
321	Effects of lyotropic anions on thermodynamic stability and dynamics of horse cytochrome c	Jain R., Agarwal M.C., Kumar R., Sharma D., Kumar R.	Jain, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India, Gujranwala Guru Nanak Khalsa College, Ghumar Mandi, Civil Lines, Ludhiana, 160035, India; Agarwal, M.C., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Kumar, R., Department of Chemical Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India; Sharma, D., Council of Scientific and Industrial Research, Institute of Microbial Technology, Sector 39A, Chandigarh, India; Kumar, R., Department of Chemical Sciences, School of Basic and Applied Sciences, Central University of Punjab, Bathinda, 151001, India, School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Biophysical Chemistry	2018	3014622
322	Heavy-ion collision dynamics: Correlation with elliptic flow and nuclear stopping	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University Gharuan, Mohali, Punjab 140413, India	Nuclear Physics A	2018	3759474
323	Unit commitment considering dual-mode combined heat and power generating units using integrated optimization technique	Anand H., Narang N., Dhillon J.S.	Anand, H., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur), Punjab 148106, India	Energy Conversion and Management	2018	1968904
324	Efficient photodegradation of methylene blue (MB) under solar radiation by ZrC nanoparticles	Singh Vig A., Gupta A., Pandey O.P.	Singh Vig, A., School of Physics and Material Science, Thapar University, Patiala, 147004, India; Gupta, A., School of Physics and Material Science, Thapar University, Patiala, 147004, India; Pandey, O.P., School of Physics and Material Science, Thapar University, Patiala, 147004, India	Advanced Powder Technology	2018	9218831
325	Heavy metal ions adsorption and photodegradation of remazol black XP by iron oxide/silica monoliths: Kinetic and equilibrium modelling	Singh J., Sharma M., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advanced Powder Technology	2018	9218831
326	Integration of photocatalytic and biological processes for treatment of pharmaceutical effluent	Bhatia V., Dhir A., Ray A.K.	Bhatia, V., School of Energy & Environment, Thapar University, Patiala, 147004, India; Dhir, A., School of Energy & Environment, Thapar University, Patiala, 147004, India; Ray, A.K., Department of Chemical & Biochemical Engineering, University of Western Ontario, London, Ontario ON N6A 3K7, Canada	Journal of Photochemistry and Photobiology A: Chemistry	2018	10106030
327	A comparative study on the effect of different precursors for synthesis and efficient photocatalytic activity of g-C ₃ N ₄ /TiO ₂ /bentonite nanocomposites	Mishra A., Mehta A., Kainth S., Basu S.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kainth, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Materials Science	2018	222461
328	Photodeposition of Ag and Cu binary co-catalyst onto TiO ₂ for improved optical and photocatalytic degradation properties	Bhardwaj S., Pal B.	Bhardwaj, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advanced Powder Technology	2018	9218831
329	A novel triangular interval type-2 intuitionistic fuzzy sets and their aggregation operators	Garg H., Singh S.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India; Singh, S., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India	Iranian Journal of Fuzzy Systems	2018	17350654
330	Impact of phase noise on single-tap equalization for fast-OFDM signals under generic linear fading channels	Kohli A.K., Lamba G.S.	Kohli, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology (TIET, Deemed University), Patiala, Punjab 147004, India; Lamba, G.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology (TIET, Deemed University), Patiala, Punjab 147004, India	Optik	2018	304026
331	Direct somatic embryogenesis of potato [Solanum tuberosum (L.)] cultivar 'Kufri Chipsona 2'	Kaur A., Reddy M.S., Kumar A.	Kaur, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India; Reddy, M.S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India	Plant Cell, Tissue and Organ Culture	2018	1676857
332	Formulation of some useful theorems for S-transform	Ranjan R., Singh A.K., Jindal N.	Ranjan, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Optik	2018	304026

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
333	Brownian Motus and Clustered Binary Insertion Sort methods: An efficient progress over traditional methods	Goel S., Kumar R.	Goel, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Future Generation Computer Systems	2018	0167739X
334	Influence of pH and temperature of dip-coating solution on the properties of cellulose acetate-ceramic composite membrane for ultrafiltration	Kaur H., Bulasara V.K., Gupta R.K.	Kaur, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Gupta, R.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	Carbohydrate Polymers	2018	1448617
335	Epidemiological Study on Respiratory Health of School Children of Rural Sites of Malwa Region (India) During Post-harvest Stubble Burning Events	Saggu G.S., Mittal S.K., Agarwal R., Beig G.	Saggu, G.S., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Beig, G., Indian Institute of Tropical Meteorology, Pashan, Pune, 411008, India	Mapan - Journal of Metrology Society of India	2018	9703950
336	An efficient multi-party scheme for privacy preserving collaborative filtering for healthcare recommender system	Kaur H., Kumar N., Batra S.	Kaur, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Future Generation Computer Systems	2018	0167739X
337	Fluoride uptake by zeolite NaA synthesized from rice husk: Isotherm, kinetics, thermodynamics and cost estimation	Mukherjee S., Barman S., Halder G.	Mukherjee, S., Chemical Engg Department, National Institute of Technology Durgapur, M. G. Avenue713209, India; Barman, S., Chemical Engg Department, Thapar University, Patiala, Punjab 147004, India; Halder, G., Chemical Engg Department, National Institute of Technology Durgapur, M. G. Avenue713209, India	Groundwater for Sustainable Development	2018	2352801X
338	An improved data-hiding approach using skin-tone detection for video steganography	Kumar P., Singh K.	Kumar, P., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Singh, K., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	Multimedia Tools and Applications	2018	13807501
339	A survey towards an integration of big data analytics to big insights for value-creation	Saggi M.K., Jain S.	Saggi, M.K., Department of Computer Science, Thapar, University Patiala, India; Jain, S., Department of Computer Science, Thapar, University Patiala, India	Information Processing and Management	2018	3064573
340	Providing Healthcare-as-a-Service Using Fuzzy Rule Based Big Data Analytics in Cloud Computing	Jindal A., Dua A., Kumar N., Das A.K., Vasilakos A.V., Rodrigues J.J.P.C.	Jindal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dua, A., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, 333031, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, Hyderabad, 500032, India; Vasilakos, A.V., Innopolis University, Innopolis, 420500, Russian Federation; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, 37540-000, Brazil, Instituto de Telecomunicacoes, Lisboa, 1049-001, Portugal, ITMO University, Saint Petersburg, 197101, Russian Federation, University of Fortaleza (UNIFOR), Fortaleza, 60811-905, Brazil	IEEE Journal of Biomedical and Health Informatics	2018	21682194
341	MEnSuS: An efficient scheme for energy management with sustainability of cloud data centers in edge-cloud environment	Aujla G.S., Kumar N.	Aujla, G.S., Computer Science & Engineering Department, Thapar University, Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar University, Patiala, India	Future Generation Computer Systems	2018	0167739X
342	A robust mutual authentication scheme for session initiation protocol with key establishment	Sureshkumar V., Amin R., Anitha R.	Sureshkumar, V., Department of Applied Mathematics and Computational Sciences, PSG College of Technology, Coimbatore, 641004, India; Amin, R., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Anitha, R., Department of Applied Mathematics and Computational Sciences, PSG College of Technology, Coimbatore, 641004, India	Peer-to-Peer Networking and Applications	2018	19366442
343	HMADSO: a novel hill Myna and desert Sparrow optimization algorithm for cooperative rendezvous and task allocation in FANETS	Sharma V., Reina D.G., Kumar R.	Sharma, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Reina, D.G., Escuela Superior de Ingenieros, University of Seville, Seville, Spain; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Soft Computing	2018	14327643
344	Semantic code clone detection for Internet of Things applications using reaching definition and liveness analysis	Tekchandani R., Bhatia R., Singh M.	Tekchandani, R., Thapar University, Patiala, Punjab, India; Bhatia, R., PEC University of Science and Technology, Chandigarh, India; Singh, M., Thapar University, Patiala, Punjab, India	Journal of Supercomputing	2018	9208542

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
345	PROTOTYPING OF UNMANNED AERIAL GROUND VEHICLE (UAGV)	Sagar S., Aggarwal S., Chakravarty V., Garg S., Sondhi S.	Sagar, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Aggarwal, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Chakravarty, V., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Garg, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Sondhi, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India	2018 International Conference on Unmanned Aircraft Systems, ICUAS 2018	2018	
346	An integrated framework for anomaly detection in big data of medical wireless sensors	Saneja B., Rani R.	Saneja, B., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters B	2018	2179849
347	Design and development of coaxial line based 2kw, 10-30db variable dual directional coupler	Jain A., Anurag, Yadav R.P.	Jain, A., Thapar University, Electronics and Communication Engineering Department, Patiala, India; Anurag, Indian Institute of Information Technology (IIIT), Electronics and Communication Engineering Department, Kilorhad Sonapat, India; Yadav, R.P., Thapar University, Electronics and Communication Engineering Department, Patiala, India	IEEE MTT-S International Microwave and RF Conference, IMaRC 2017	2018	
348	Evaluation of Feature Selection Techniques for Software Maintenance Prediction	Nanda S., Bala A., Saxena S.	Nanda, S., Department of Computer Science, Thapar University, Patiala, Punjab, 147004, India; Bala, A., Department of Computer Science, Thapar University, Patiala, Punjab, 147004, India; Saxena, S., Department of Computer Science, Thapar University, Patiala, Punjab, 147004, India	2nd International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS 2017	2018	
349	The Digital Universe: Changing Paradigms of E-Business in India	Malhi A.K., Pannu H.S., Sharma A.	Malhi, A.K., Computer Science and Engineering, Thapar Institute of Engg. Tech., Patiala, India; Pannu, H.S., Computer Science and Engineering, Thapar Institute of Engg. Tech., Patiala, India; Sharma, A., School of Humanities and Social Sciences, Thapar Institute of Engg. Tech., Patiala, India	2018 2nd International Conference on Engineering Innovation, ICEI 2018	2018	
350	Enantioselective synthesis of (-)-(5R,6S)-6-acetoxyhexadecan-5-olide via tandem α -aminoxylation-Henry reaction	Pandey R., Garg Y., Prakash R., Pandey S.K.	Pandey, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, Y., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, 221 005, India	Arkivoc	2018	15517004
351	Modelling finite and infinite behaviour of cancer stages using Büchi and finite automata	Singh N., Kumar A.	Singh, N., Department of Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kumar, A., Department of Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Current Science	2018	113891
352	Mitigation of Risk Using Rule Based Fuzzy FMEA Approach	Srivastava P., Khanduja D., Agrawal V.P.	Srivastava, P., National Institute of Technology, Kurukshetra, India; Khanduja, D., TIET, Patiala, India; Agrawal, V.P., AUUP, ASET, Noida, India	Proceedings of the 8th International Conference Confluence 2018 on Cloud Computing, Data Science and Engineering, Confluence 2018	2018	
353	Random Grid Based Extended Visual Secret Sharing Scheme for Image Authentication	Kukreja S., Singhkasana S., Kasana G.	Kukreja, S., Department, Computer Science and Engineering, University Patiala, Thapar, 147004, India; Singhkasana, S., Department, Computer Science and Engineering, University Patiala, Thapar, 147004, India; Kasana, G., Department, Computer Science and Engineering, University Patiala, Thapar, 147004, India	Proceedings of the 8th International Conference Confluence 2018 on Cloud Computing, Data Science and Engineering, Confluence 2018	2018	
354	Evaluation of Diet for Stroke Patients through Soft Computing Algorithm	Sagar P., Choudhury T., Raj G., Gianey H.K.	Sagar, P., Amity University, Noida, Uttar Pradesh, India; Choudhury, T., University of Petroleum and Energy Studies, Dehradun, India; Raj, G., Amity University, Noida, Uttar Pradesh, India; Gianey, H.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings on 2018 International Conference on Advances in Computing and Communication Engineering, ICACCE 2018	2018	
355	Magnetorheological nanofinishing of BK7 glass for lens manufacturing	Kumar S., Singh A.K.	Kumar, S., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Materials and Manufacturing Processes	2018	10426914
356	Improved magnetorheological honing process for nanofinishing of variable cylindrical internal surfaces	Grover V., Singh A.K.	Grover, V., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Materials and Manufacturing Processes	2018	10426914
357	A rotating core-based magnetorheological nano-finishing process for external cylindrical surfaces	Singh M., Singh A., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Materials and Manufacturing Processes	2018	10426914
358	Magnetorheological finishing of ferromagnetic blind-hole type surfaces	Bedi T.S., Singh A.K.	Bedi, T.S., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Materials and Manufacturing Processes	2018	10426914

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
359	A new magnetorheological finishing process for ferromagnetic cylindrical honed surfaces	Bedi T.S., Singh A.K.	Bedi, T.S., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Materials and Manufacturing Processes	2018	10426914
360	Ensuring privacy and security in E-health records	Vora J., Italiya P., Tanwar S., Tyagi S., Kumar N., Obaidat M.S., Hsiao K.-F.	Vora, J., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Italiya, P., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Tyagi, S., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Obaidat, M.S., University of Jordan, King Abdullah II School of IT, Jordan; Hsiao, K.-F., Ming-Chuan University, Taiwan	CITS 2018 - 2018 International Conference on Computer, Information and Telecommunication Systems	2018	
361	Blind signatures based secured E-healthcare system	Vora J., Devmurari P., Tanwar S., Tyagi S., Kumar N., Obaidat M.S.	Vora, J., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Devmurari, P., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Tyagi, S., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Obaidat, M.S., University of Jordan, King Abdullah II School of IT, Jordan	CITS 2018 - 2018 International Conference on Computer, Information and Telecommunication Systems	2018	
362	Self-focusing of q-Gaussian laser beam in relativistic plasma using exponential density based transition	Aggarwal M., Richa R., Kumar H., Arora N.S., Gill T.S., Deepshikha D.	Aggarwal, M., Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Richa, R., Punjab Technical University, Kapurthala, 144601, India; Kumar, H., Punjab Technical University, Kapurthala, 144601, India; Arora, N.S., Department of Applied Science, Amritsar College of Engineering and Technology, Manawala, 143115, India; Gill, T.S., Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Deepshikha, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India	AIP Conference Proceedings	2018	0094243X
363	Fragmentation and related aspects of $^{28}\text{Si}+^{90}\text{Zr}\rightarrow^{118}\text{Xe}^*$ reaction over Ec.m. \sim 65-92 MeV	Grover N., Sharma M.K.	Grover, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala (Punjab), India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala (Punjab), India	AIP Conference Proceedings	2018	0094243X
364	Transition energy as a probe to study the mass asymmetric nuclear reactions at intermediate energies	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Punjab, 140413, India	AIP Conference Proceedings	2018	0094243X
365	Decay analysis of $^{216}\text{Th}^*$ nucleus using dynamical cluster-decay model	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2018	0094243X
366	Circulating Fluid-Bed Studies for CO ₂ Capture from Flue Gas using K ₂ CO ₃ /Al ₂ O ₃ Adsorbent	Sengupta S., Amte V., Das A.K., Yadav M., Mandal S., Nerivetla S., Bhunia H.	Sengupta, S., R and D Refining, Reliance Industries Limited, Jamnagar, Gujarat, 361142, India; Amte, V., R and D Refining, Reliance Industries Limited, Jamnagar, Gujarat, 361142, India; Das, A.K., R and D Refining, Reliance Industries Limited, Jamnagar, Gujarat, 361142, India; Yadav, M., R and D Refining, Reliance Industries Limited, Jamnagar, Gujarat, 361142, India; Mandal, S., R and D Refining, Reliance Industries Limited, Jamnagar, Gujarat, 361142, India; Nerivetla, S., R and D Refining, Reliance Industries Limited, Jamnagar, Gujarat, 361142, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab, 147004, India	Energy and Fuels	2018	8870624
367	Hollow chitosan nanocomposite as drug carrier system for controlled delivery of ramipril	Basu T., Pal B., Singh S.	Basu, T., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Chemical Physics Letters	2018	92614
368	Acrylonitrile embedded benzimidazole-anthraquinone based chromofluorescent sensor for ratiometric detection of CN ⁻ ions in bovine serum albumin	Kumar G., Gupta N., Paul K., Luxami V.	Kumar, G., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India; Gupta, N., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India	Sensors and Actuators, B: Chemical	2018	9254005
369	Accelerated carbonation curing of cement mortars containing cement kiln dust: An effective way of CO ₂ sequestration and carbon footprint reduction	Sharma D., Goyal S.	Sharma, D., Department of Civil Engineering, Thapar University, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar University, Patiala, India	Journal of Cleaner Production	2018	9596526

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
370	Acetonitrile Dehydration via Extractive Distillation Using Low Transition Temperature Mixtures as Entrainers	Sharma B., Singh N., Jain T., Kushwaha J.P., Singh P.	Sharma, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, T., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Chemical and Engineering Data	2018	219568
371	Fe3O4 @ PLGA-PEG Nanocomposite for Improved Delivery of Methotrexate in Cancer Treatment	Basu T., Singh S., Pal B.	Basu, T., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	ChemistrySelect	2018	23656549
372	Effect of process parameters on mechanical properties of solidified PLA parts fabricated by 3D printing process	Khatwani J., Srivastava V.	Khatwani, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	3D Printing and Additive Manufacturing Technologies	2018	
373	Design and fabrication of soft-bodied 3-D tactile sensors with magnetometers	Walia P., Bamotra A., Prituja A.V., Ren H.	Walia, P., Department of Biomedical Engineering, National University of Singapore, Singapore, 117583, Singapore, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Bamotra, A., Department of Biomedical Engineering, National University of Singapore, Singapore, 117583, Singapore, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Prituja, A.V., Department of Biomedical Engineering, National University of Singapore, Singapore, 117583, Singapore; Ren, H., Department of Biomedical Engineering, National University of Singapore, Singapore, 117583, Singapore	2018 IEEE International Conference on Information and Automation, ICIA 2018	2018	
374	Optimization of Cluster Head Selection in Hierarchical Clustered Sensor Networks	Dhaliwal J.K., Saxena S.	Dhaliwal, J.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 7th International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions, ICRITO 2018	2018	
375	Feature Selection using Mutual Information and Adaptive Particle Swarm Optimization for Image Steganalysis	Kaur J., Singh S.	Kaur, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 7th International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions, ICRITO 2018	2018	
376	To demonstrate the potential application of "low temperature and high performance silicon heterojunction solar cells fabricated using HWCVD" in wireless sensor network: An initial research	Agarwal M., Munjal A., Dusane R.	Agarwal, M., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147004, India; Munjal, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147004, India; Dusane, R., Semiconductor Thin Film and Plasma Processing Laboratory, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India	Journal of Solar Energy Engineering, Transactions of the ASME	2018	1996231
377	Effect of annealing on tungsten oxide thin films for acetone gas detection	Sachdeva S., Agarwal R., Agarwal A.	Sachdeva, S., Thapar University, Patiala, 147001, India, CSIR - Central Electronics Engineering Research Institute, Pilani, 333031, India; Agarwal, R., Thapar University, Patiala, 147001, India; Agarwal, A., CSIR - Central Electronics Engineering Research Institute, Pilani, 333031, India	Bulletin of Materials Science	2018	2504707
378	Chopper: An intelligent qos-aware autonomic resource management approach for cloud computing	Gill S.S., Chana I., Singh M., Buyya R.	Gill, S.S., Cloud Computing and Distributed Systems (CLOUDS) Lab, School of Computing and Information Systems, The University of Melbourne, Parkville, VIC, Australia; Chana, I., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Buyya, R., Cloud Computing and Distributed Systems (CLOUDS) Lab, School of Computing and Information Systems, The University of Melbourne, Parkville, VIC, Australia	Cluster Computing	2018	13867857
379	An empirical evaluation of energy-aware load balancing technique for cloud data center	Kansal N.J., Chana I.	Kansal, N.J., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Chana, I., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Cluster Computing	2018	13867857
380	A pre-screening method for cardiac anomalies detection using phonocardiography signals	Cheema A., Singh M.	Cheema, A., Thapar Institute of Engineering and Technology, India; Singh, M., Thapar Institute of Engineering and Technology, India	Indian Journal of Public Health Research and Development	2018	9760245
381	Game-theoretic resource allocation scheme for multiple-amplify-and-forward-relay wireless networks	Lamba A.K., Kumar R., Sharma S.	Lamba, A.K., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, R., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India; Sharma, S., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India	IET Communications	2018	17518628

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
382	Application of Box-Behnken design and response surface methodology for multi-optimization of laser cutting of AA5052/ZrO2 metal-matrix composites	Sharma V., Kumar V.	Sharma, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Kumar, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207
383	Connection number of set pair analysis based TOPSIS method on intuitionistic fuzzy sets and their application to decision making	Kumar K., Garg H.	Kumar, K., School of Mathematics, Thapar University, Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	Applied Intelligence	2018	0924669X
384	Review on CFD Modelling of Fluidized Bed Combustion Systems based on Biomass and Co-firing	Kumar H., Mohapatra S.K., Singh R.I.	Kumar, H., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab 147002, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Singh, R.I., Department of Mechanical Engineering, Birla Institute of Technology and Science, Pilani, Rajasthan 333031, India	Journal of The Institution of Engineers (India): Series C	2018	22500545
385	Modelling of urban traffic noise using a systems approach	Singh D., Nigam S.P., Agrawal V.P., Kumar M.	Singh, D., Department of Mechanical Engineering, Thapar University, Patiala, India; Nigam, S.P., Department of Mechanical Engineering, Thapar University, Patiala, India; Agrawal, V.P., Department of Mechanical Engineering, Thapar University, Patiala, India; Kumar, M., Department of Mechanical Engineering, Thapar University, Patiala, India	Proceedings of the Institution of Civil Engineers: Transport	2018	0965092X
386	Error tolerance for the recognition of faulty strings in a regulated grammar using fuzzy sets	Kumar A., Kalra N., Garhwal S.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2018	2562499
387	Extended suffix array construction using Lyndon factors	Sunita, Garg D.	Sunita, Computer Science and Engineering, Thapar University, Patiala, 147004, India; Garg, D., Computer Science Engineering Department, Bennett University, Greater Noida, 201310, India	Sadhana - Academy Proceedings in Engineering Sciences	2018	2562499
388	Modelling of surface roughness in a new magnetorheological honing process for internal finishing of cylindrical workpieces	Grover V., Singh A.K.	Grover, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Mechanical Sciences	2018	207403
389	Energy management and voltage stabilization in an islanded microgrid through an electric vehicle charging station	Singh S., Jagota S., Singh M.	Singh, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jagota, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, M., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Sustainable Cities and Society	2018	22106707
390	An investigation into the flowability of fine powders used in pharmaceutical industries	Garg V., Mallick S.S., Garcia-Trinanes P., Berry R.J.	Garg, V., The Wolfson Centre for Bulk Solids Handling Technology, University of Greenwich, United Kingdom; Mallick, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India; Garcia-Trinanes, P., The Wolfson Centre for Bulk Solids Handling Technology, University of Greenwich, United Kingdom; Berry, R.J., The Wolfson Centre for Bulk Solids Handling Technology, University of Greenwich, United Kingdom	Powder Technology	2018	325910
391	Effect of gate dielectric on the performance of ZnO based thin film transistor	Vyas S., Dwivedi A.D.D., Dwivedi R.D.	Vyas, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, 147004, India; Dwivedi, A.D.D., Department of Electrical and Electronics Engineering, Poornima University, Jaipur, 303905, India; Dwivedi, R.D., Department of Electrical and Electronics Engineering, Poornima University, Jaipur, 303905, India	Superlattices and Microstructures	2018	7496036
392	Similarity Measure of Complex Vague Soft Sets and Its Application to Pattern Recognition	Selvachandran G., Garg H., Alaroud M.H.S., Salleh A.R.	Selvachandran, G., Department of Actuarial Science and Applied Statistics, Faculty of Business and Information Science, UCSI University, Jalan Menara Gading, Cheras, Kuala Lumpur, 56000, Malaysia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Alaroud, M.H.S., School of Mathematical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor DE 43600, Malaysia; Salleh, A.R., School of Mathematical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor DE 43600, Malaysia	International Journal of Fuzzy Systems	2018	15622479
393	An advanced study on the similarity measures of intuitionistic fuzzy sets based on the set pair analysis theory and their application in decision making	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Institute and Technology (Deemed University), Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Institute and Technology (Deemed University), Patiala, Punjab 147004, India	Soft Computing	2018	14327643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
394	Corn steep liquor as a nutritional source for biocementation and its impact on concrete structural properties	Joshi S., Goyal S., Reddy M.S.	Joshi, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Industrial Microbiology and Biotechnology	2018	13675435
395	A new enrichment scheme in XFEM to model crack growth behavior in ductile materials	Kumar S., Bhardwaj G.	Kumar, S., Department of Mechanical Engineering, Indian Institute of Technology Ropar Punjab 140001, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Theoretical and Applied Fracture Mechanics	2018	1678442
396	Estimating the Efficiency of Public Infrastructure Investment: A State-wise Analysis	Saxena M., Chotia V., Rao N.V.M.	Saxena, M., Department of Electronics and Electrical Engineering, Birla Institute of Technology and Science, Vidya Vihar, Pilani Road, Pilani, Rajasthan, India; Chotia, V., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Derabassi Campus, Derabassi, Mohali, Punjab, India; Rao, N.V.M., Department of Economics and Finance, Birla Institute of Technology and Science, New Academic Block Vidya Vihar, Pilani Road, Pilani, Rajasthan, India	Global Business Review	2018	9721509
397	The Anatomy of Sustainable Growth Rate of Indian Manufacturing Firms	Arora L., Kumar S., Verma P.	Arora, L., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Indian Institute of Information Technology, Allahabad, Uttar Pradesh, India; Verma, P., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Global Business Review	2018	9721509
398	Crisscross PSO algorithm for multi-objective generation scheduling of pumped storage hydrothermal system incorporating solar units	Patwal R.S., Narang N.	Patwal, R.S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Energy Conversion and Management	2018	1968904
399	An Efficient Image Forgery Detection Using Biorthogonal Wavelet Transform and Improved Relevance Vector Machine	Jain N.K., Rathore N.K., Mishra A.	Jain, N.K., Jaypee University of Engineering and Technology, Guna, M.P., India; Rathore, N.K., Jaypee University of Engineering and Technology, Guna, M.P., India; Mishra, A., Thapar University, Patiala, Punjab, India	Wireless Personal Communications	2018	9296212
400	Performance Analysis of Joint Relay and Transmit-Receive Antenna Selection for Low Density Parity Check-Asynchronous Distributed Space Time Block Coded Cooperative Diversity System	Sood V.V., Sharma S., Khanna R.	Sood, V.V., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2018	9296212
401	Synthesis of porous carbon monolith adsorbents for carbon dioxide capture: Breakthrough adsorption study	Singh J., Bhunia H., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of the Taiwan Institute of Chemical Engineers	2018	18761070
402	Influence of CuO/MgO ratio on the gene expression, cytocompatibility, and antibacterial/anticancerous/analgesic drug loading kinetics for (15-x) CuO-xMgO-10P2O5-60SiO2-10CaO-5ZnO (2.5 ≤ x ≤ 12.5) mesoporous bioactive glasses	Bains R., Sharma P., Mir R.A., Jeet S., Kaur G., Pandey O.P.	Bains, R., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Mir, R.A., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Jeet, S., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Journal of Biomedical Materials Research - Part A	2018	15493296
403	Survey and selection of Jatropha curcas L. germplasm: Assessment of genetic variability and divergence studies on the seed traits and oil content	Kumar R., Das N.	Kumar, R., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Industrial Crops and Products	2018	9266690
404	A new method for segmentation of pre-detected Devanagari words from the scene images: Pihu method	Jindal K., Kumar R.	Jindal, K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Computers and Electrical Engineering	2018	457906

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
405	Association of XPA Polymorphisms Towards Lung Cancer Susceptibility and its Predictive Role in Overall Survival of North Indians	Lawania S., Singh N., Behera D., Sharma S.	Lawania, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Sector 14, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India	Biochemical Genetics	2018	62928
406	Experimental investigation of photo-thermal analysis of blended nanoparticles (Al ₂ O ₃ /Co ₃ O ₄) for direct absorption solar thermal collector	Bhalla V., Khullar V., Tyagi H.	Bhalla, V., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technol, Ropar, Rupnagar, Punjab 140001, India; Khullar, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technol, Ropar, Rupnagar, Punjab 140001, India	Renewable Energy	2018	9601481
407	An integrated fuzzy approach for prioritizing supply chain complexity drivers of an Indian mining equipment manufacturer by Kavalal, E. G., Venkatesan, S. P., Kumar, K. D. H., [Resour. Policy 51 (2017) 204–218]: Suggested modification	Bhat S.A., Kumar A.	Bhat, S.A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	Resources Policy	2018	3014207
408	The Level of Toxic Elements in Edible Crops from Seleniferous Area (Punjab, India)	Skalnaya M.G., Jaiswal S.K., Prakash R., Prakash N.T., Grabeklis A.R., Zhegalova I.V., Zhang F., Guo X., Tinkov A.A., Skalny A.V.	Skalnaya, M.G., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, 105064, Russian Federation; Jaiswal, S.K., Thapar University, Patiala, 147004, India; Prakash, R., Thapar University, Patiala, 147004, India; Prakash, N.T., Thapar University, Patiala, 147004, India; Grabeklis, A.R., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, 105064, Russian Federation; Zhegalova, I.V., Peoples' Friendship University of Russia (RUDN University), Moscow, 105064, Russian Federation, I.M. Sechenov First Moscow State Medical University, Moscow, 119992, Russian Federation; Zhang, F., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Guo, X., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Tinkov, A.A., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, 105064, Russian Federation, Institute of Cellular and Intracellular Symbiosis, Russian Academy of Sciences, Orenburg, 460008, Russian Federation; Skalny, A.V., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, 105064, Russian Federation, Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China, Orenburg State University, Orenburg, 460352, Russian Federation, Trace Element Institute for UNESCO, Lyon, 69001, France	Biological Trace Element Research	2018	1634984
409	Study of digital image processing techniques for leaf disease detection and classification	Dhingra G., Kumar V., Joshi H.D.	Dhingra, G., Electronics and Communication Engineering Department, Thapar University Patiala, Patiala, 147001, India; Kumar, V., Electronics and Communication Engineering Department, Thapar University Patiala, Patiala, 147001, India; Joshi, H.D., Electronics and Communication Engineering Department, Thapar University Patiala, Patiala, 147001, India	Multimedia Tools and Applications	2018	13807501
410	Conductivity, dielectric, and structural studies of (30-x) SrO-xBaO-10Al ₂ O ₃ -45SiO ₂ -5B ₂ O ₃ -10Y ₂ O ₃ (5 ≤ x ≤ 25) glasses	Kaur N., Kaur G., Khan S., Singh K.	Kaur, N., Department of Physics, Punjabi University, Patiala, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Khan, S., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Ionic	2018	9477047
411	Certificateless public key authenticated encryption with keyword search for industrial internet of things	He D., Ma M., Zeadally S., Kumar N., Liang K.	He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, 430072, China, State Key Laboratory of Cryptology, Beijing, 100878, China; Ma, M., School of Mathematics and Statistics, Wuhan University, Wuhan, 430072, China; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY 40506, United States; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Liang, K., Department of Computer Science, University of Surrey, Guildford, GU2 7XH, United Kingdom	IEEE Transactions on Industrial Informatics	2018	15513203
412	Non-linear programming method for multi-criteria decision making problems under interval neutrosophic set environment	Garg H., Nancy	Garg, H., School of Mathematics, Thapar University Patiala, Patiala, Punjab 147004, India; Nancy, School of Mathematics, Thapar University Patiala, Patiala, Punjab 147004, India	Applied Intelligence	2018	0924669X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
413	A semi-supervised domain adaptation assembling approach for image classification	Saxena S., Pandey S., Khanna P.	Saxena, S., PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Dumna Airport Road, Mehgeon, Jabalpur, Madhya Pradesh 482005, India; Pandey, S., Thapar University, Patiala, Punjab 147004, India; Khanna, P., PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Dumna Airport Road, Mehgeon, Jabalpur, Madhya Pradesh 482005, India	Pattern Analysis and Applications	2018	14337541
414	Extended visual cryptography techniques for true color images	Dhiman K., Kasana S.S.	Dhiman, K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab-147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab-147004, India	Computers and Electrical Engineering	2018	457906
415	Generalized interaction aggregation operators in intuitionistic fuzzy multiplicative preference environment and their application to multicriteria decision-making	Garg H.	Garg, H., School of Mathematics, Thapar University Patiala-147004, Punjab, India	Applied Intelligence	2018	0924669X
416	A nonlinear-programming methodology for multi-attribute decision-making problem with interval-valued intuitionistic fuzzy soft sets information	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar University Patiala, Punjab, 147004, India; Arora, R., School of Mathematics, Thapar University Patiala, Punjab, 147004, India	Applied Intelligence	2018	0924669X
417	A boolean spider monkey optimization based energy efficient clustering approach for WSNs	Mittal N., Singh U., Salgotra R., Sohi B.S.	Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Sohi, B.S., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India	Wireless Networks	2018	10220038
418	Power quality improvement using DSTATCOM with affine projection algorithm	Badoni M., Singh A., Singh B.	Badoni, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Electrical Engineering Department, Delhi Technological University, Delhi, India; Singh, B., Electrical Engineering Department, Indian Institute of Technology Delhi, Delhi, India	IET Generation, Transmission and Distribution	2018	17518687
419	EnLoc: Data locality-aware energy-efficient scheduling scheme for cloud data centers	Kaur K., Kumar N., Garg S., Rodrigues J.J.P.C.	Kaur, K., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Garg, S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Brazil, Instituto de Telecomunicações, Portugal, ITMO University, Russian Federation, University of Fortaleza (UNIFOR), Brazil	IEEE International Conference on Communications	2018	15503607
420	A Preterm Birth Risk Prediction System for Mobile Health Applications Based on the Support Vector Machine Algorithm	Moreira M.W.L., Rodrigues J.J.P.C., Marcondes G.A.B., Neto A.J.V., Kumar N., Diez I.D.L.T.	Moreira, M.W.L., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, Instituto Federal de Educacao, Ciencia e Tecnologia Do Ceará (IFCE), Aracati, CE, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, National Institute of Telecommunications (Inatel), Santa Rita do Sapucá, MG, Brazil, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil; Marcondes, G.A.B., National Institute of Telecommunications (Inatel), Santa Rita do Sapucá, MG, Brazil; Neto, A.J.V., Department of Informatics and Applied Mathematics, Federal University of Rio Grande Do Norte, Natal, RN, Brazil; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala (Punjab), India; Diez, I.D.L.T., Universidad de Valladolid (UVa), Valladolid, Spain	IEEE International Conference on Communications	2018	15503607
421	HyClass: Hybrid classification model for anomaly detection in cloud environment	Garg S., Kaur K., Kumar N., Batra S., Obaidat M.S.	Garg, S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Kaur, K., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Batra, S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Obaidat, M.S., King Abdullah School of Information Technology, University of Jordan, Jordan	IEEE International Conference on Communications	2018	15503607
422	Edge-based content delivery for providing QoE in wireless networks using quotient filter	Garg S., Singh A., Kaur K., Batra S., Kumar N., Obaidat M.S.	Garg, S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Singh, A., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Kaur, K., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Batra, S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Obaidat, M.S., King Abdullah School of Information Technology, University of Jordan, Jordan	IEEE International Conference on Communications	2018	15503607
423	Deep learning-based content centric data dissemination scheme for internet of vehicles	Gulati A., Aujla G.S., Chaudhary R., Kumar N., Obaidat M.S.	Gulati, A., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Aujla, G.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India, Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Chaudhary, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Obaidat, M.S., King Abdullah School of Information Technology, University of Jordan, Jordan	IEEE International Conference on Communications	2018	15503607

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
424	An Ensembled Scheme for QoS-Aware Traffic Flow Management in Software Defined Networks	Aujla G.S., Chaudhary R., Kumar N., Kumar R., Rodrigues J.J.P.C.	Aujla, G.S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Chaudhary, R., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Kumar, N., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Rodrigues, J.J.P.C., Instituto de Telecomunicacoes, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil	IEEE International Conference on Communications	2018	15503607
425	LaCSys: Lattice-based cryptosystem for secure communication in smart grid environment	Chaudhary R., Aujla G.S., Kumar N., Das A.K., Saxena N., Rodrigues J.J.P.C.	Chaudhary, R., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Aujla, G.S., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India, Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, India; Saxena, N., Department of Computing and Informatics, Bournemouth University, Bournemouth, United Kingdom; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil, Instituto de Telecomunicações, Portugal, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil	IEEE International Conference on Communications	2018	15503607
426	Traffic noise prediction modelling using multi-level ensemble method	Rana P.S., Singh D.	Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India; Singh, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India	AIP Conference Proceedings	2018	0094243X
427	Honking noise contribution to road traffic noise prediction	Guarnaccia C., Singh D., Quartieri J., Nigam S.P., Kumar M., Mastorakis N.E.	Guarnaccia, C., Department of Civil Engineering, University of Salerno, Via Giovanni Paolo II 132, Fisciano (SA), Italy; Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India; Quartieri, J., Department of Civil Engineering, University of Salerno, Via Giovanni Paolo II 132, Fisciano (SA), Italy; Nigam, S.P., Department of Mechanical Engineering, North Cap University, Gurugram, 122017, India; Kumar, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India; Mastorakis, N.E., Technical University of Sofia, English Language Faculty of Engineering, Kliment Ohridski 8, Sofia, 1000, Bulgaria	AIP Conference Proceedings	2018	0094243X
428	Myoglobin-Catalyzed C-H Functionalization of Unprotected Indoles	Vargas D.A., Tinoco A., Tyagi V., Fasan R.	Vargas, D.A., Department of Chemistry, University of Rochester, 120 Trustee Road, Rochester, NY 14627, United States; Tinoco, A., Department of Chemistry, University of Rochester, 120 Trustee Road, Rochester, NY 14627, United States; Tyagi, V., Department of Chemistry, University of Rochester, 120 Trustee Road, Rochester, NY 14627, United States, Current address: School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Punjab, India; Fasan, R., Department of Chemistry, University of Rochester, 120 Trustee Road, Rochester, NY 14627, United States	Angewandte Chemie - International Edition	2018	14337851
429	Context-aware search optimization framework on the internet of things	Bharti M., Kumar R., Saxena S.	Bharti, M., Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Saxena, S., Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Concurrency and Computation: Practice and Experience	2018	15320626
430	In silico approach to analyze the biochemical pathways of bacterial metabolite synthesis	Tania, Goyal M., Baranwal M.	Tania, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	In Silico Approach for Sustainable Agriculture	2018	
431	Structure and reactivity/selectivity control by oriented-external electric fields	Shaik S., Ramanan R., Danovich D., Mandal D.	Shaik, S., Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, 91904, Israel; Ramanan, R., Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, 91904, Israel; Danovich, D., Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, 91904, Israel; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India	Chemical Society Reviews	2018	3060012
432	Up to date review on the synthesis and thermophysical properties of hybrid nanofluids	Gupta M., Singh V., Kumar S., Kumar S., Dilbaghi N., Said Z.	Gupta, M., Department of Mechanical Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana 125001, India; Singh, V., Department of Mechanical Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana 125001, India; Kumar, S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Kumar, S., Department of Bio and Nano Technology, Guru Jambheshwar University of Science and Technology, Hisar, Haryana 125001, India; Dilbaghi, N., Department of Bio and Nano Technology, Guru Jambheshwar University of Science and Technology, Hisar, Haryana 125001, India; Said, Z., Department of Sustainable and Renewable Energy Engineering, University of Sharjah, PO Box 27272, Sharjah, United Arab Emirates	Journal of Cleaner Production	2018	9596526
433	Development of chemically activated N-enriched carbon adsorbents from urea-formaldehyde resin for CO2 adsorption: Kinetics, isotherm, and thermodynamics	Tiwari D., Bhunia H., Bajpai P.K.	Tiwari, D., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of Environmental Management	2018	3014797
434	Influence of solid concentration on rheological characteristics of fly ash-water suspension	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Kumar, S., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar University, Patiala, 147004, India	IOP Conference Series: Materials Science and Engineering	2018	17578981

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
435	Compact Hardware Implementation of a SHA-3 Core for Wireless Body Sensor Networks	Yang Y., He D., Kumar N., Zeadally S.	Yang, Y., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China, Jiangsu Key Laboratory of Big Data Security and Intelligent Processing, Nanjing University of Posts and Telecommunications, Nanjing, 210023, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China, Jiangsu Key Laboratory of Big Data Security and Intelligent Processing, Nanjing University of Posts and Telecommunications, Nanjing, 210023, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY 40506, United States	IEEE Access	2018	21693536
436	Blowfish hybridized weighted attribute-based encryption for secure and efficient data collaboration in cloud computing	Ghosh S., Karar V.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Karar, V., Optical Devices and Systems, CSIR-Central Scientific Instruments Organization, Sector 30-C, Chandigarh, 160030, India	Applied Sciences (Switzerland)	2018	20763417
437	Optical, Physical and Structural Properties of Er ³⁺ Doped Low-Phonon Energy Vitreous Matrix: ZnO-B ₂ O ₃ -TeO ₂	Chopra N., Kaur S., Kaur M., Singla S., Marwaha R., Sharma G., Heer M.S.	Chopra, N., Department of physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India; Kaur, S., Department of physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India, School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kaur, M., Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144001, India; Singla, S., Department of physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India, School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Marwaha, R., Department of physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India; Sharma, G., Department of physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India; Heer, M.S., Department of physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India	Physica Status Solidi (A) Applications and Materials Science	2018	18626300
438	Performance evaluation of 2D face recognition techniques under image processing attacks	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters B	2018	2179849
439	Durability properties of self-compacting concrete incorporating metakaolin and rice husk ash	Gill A.S., Siddique R.	Gill, A.S., Department of Civil Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	Construction and Building Materials	2018	9500618
440	Frequency support in a micro-grid using virtual synchronous generator based charging station	Dhingra K., Singh M.	Dhingra, K., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India	IET Renewable Power Generation	2018	17521416
441	Benzofuran and Indole: Promising Scaffolds for Drug Development in Alzheimer's Disease	Goyal D., Kaur A., Goyal B.	Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala 147004, India	ChemMedChem	2018	18607179
442	Burgeoning tool of biomedical applications - Superparamagnetic nanoparticles	Khanna L., Verma N.K., Tripathi S.K.	Khanna, L., Department of Physics, Panjab University, Chandigarh, 160014, India; Verma, N.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tripathi, S.K., Department of Physics, Panjab University, Chandigarh, 160014, India	Journal of Alloys and Compounds	2018	9258388
443	Automatic Load Frequency Control of Six Areas' Hybrid Multi-Generation Power Systems Using Neuro-Fuzzy Intelligent Controller	Prakash S., Sinha S.K.	Prakash, S., Electrical & Instrumentation Engineering Department, Thapar University, Patiala, India; Sinha, S.K., Electrical Engineering Department, K.N.I.T., Sultanpur, India	IETE Journal of Research	2018	3772063
444	Influence of Chemical Leaching on Rheology and Ash Reduction of Indian Coal	Juneja P., Kumar S., Mohapatra S.K.	Juneja, P., Department of Mechanical Engineering, Thapar University, Patiala, India; Kumar, S., Department of Mechanical Engineering, Thapar University, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar University, Patiala, India	International Journal of Coal Preparation and Utilization	2018	19392699
445	A range-based approach for long-term forecast of weather using probabilistic markov model	Kaneriya S., Tanwar S., Buddhadev S., Verma J.P., Tyagi S., Kumar N., Misra S.	Kaneriya, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Buddhadev, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Verma, J.P., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Thapar Institute of Engg. and Tech., Deemed University, Patiala, India; Kumar, N., Thapar Institute of Engg. and Tech., Deemed University, Patiala, India; Misra, S., SIT, IIT, Kharagpur, India	2018 IEEE International Conference on Communications Workshops, ICC Workshops 2018 - Proceedings	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
446	Sustainable smart energy cyber-physical system: Can electric vehicles suffice its needs?	Jindal A., Aujla G.S., Kumar N., Misra S.	Jindal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Aujla, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Kumar N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Misra, S., Department of Computer Science and Engineering, Indian Institute of Technology KharagpurWest Bengal, India	2018 IEEE International Conference on Communications Workshops, ICC Workshops 2018 - Proceedings	2018	
447	TCP-EXPO: Empirical approach to transport layer protocol for high-speed networks	Vanzara R., Thakkar M., Sharma P., Bhatt H.S., Tanwar S., Tyagi S., Kumar N., Rodrigues J.J.P.C.	Vanzara, R., Ganpat University Mehsana, India; Thakkar, M., Ganpat University Mehsana, India; Sharma, P., Institute of Technology, Nirma University, Ahmedabad, India; Bhatt, H.S., Space Applications Center (ISRO), India; Tanwar, S., Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí - MG, Brazil, Instituto de Telecomunicações, Portugal, University of Fortaleza (UNIFOR), Fortaleza - CE, Brazil	2018 IEEE International Conference on Communications Workshops, ICC Workshops 2018 - Proceedings	2018	
448	Optimised periodic precoder-based blind channel estimation for MIMO-OFDM systems	Gupta B., Gupta S., Singh A.K., Joshi H.D.	Gupta, B., Department of Electronics and Communication Engineering, Chandigarh College of Engineering and Technology, Chandigarh, India; Gupta, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	International Journal of Electronics Letters	2018	21681724
449	Impact of personality traits and personal values on curriculum choice of young adults	Berring L., Kumari S., Ahuja S.	Berring, L., School of Humanities and Social Sciences, Thapar University Patiala, Punjab, India; Kumari, S., School of Humanities and Social Sciences, Thapar University Patiala, Punjab, India; Ahuja, S., School of Humanities and Social Sciences, Thapar University Patiala, Punjab, India	Journal of Beliefs and Values	2018	13617672
450	A Comprehensive Review of Integrated Charger for on-Board Battery Charging Applications of Electric Vehicles	Singh A.K., Pathak M.K.	Singh, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Pathak, M.K., Department of Electrical Engineering, Indian Institute of Technology, Roorkee, Roorkee, India	8th IEEE Power India International Conference, PIICON 2018	2018	
451	Design of Encoder Simulator to Augment Data Acquisition for 4-Dimensional Rotary Table in Thermal Vacuum Chamber	Tiwary A., Kumar D., Jain S.K.	Tiwary, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, D., TTSD Division, Space Applications Centre, ISRO, Ahmedabad, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	8th IEEE Power India International Conference, PIICON 2018	2018	
452	Frequency regulation in PV integrated Power System using MFO tuned PIDF controller	Sharma M., Bansal R.K., Prakash S., Dhundhara S.	Sharma, M., Department of Electrical Engineering, Guru Kashi University, Bathinda, India; Bansal, R.K., Department of Electrical Engineering, Guru Kashi University, Bathinda, India; Prakash, S., Electrical Instrumentation Engineering Department, Thapar University, Patiala, India; Dhundhara, S., Department of Electrical Electronics Engineering UIET, Panjab University, Chandigarh, India	8th IEEE Power India International Conference, PIICON 2018	2018	
453	Development of a Prototype to Study the Effect of Moisture and Temperature on Breakdown Voltage of Transformer Oil	Sahore R., Basak P.	Sahore, R., Electrical Instrumentation Department, Thapar Institute of Engineering Technology, Patiala, India; Basak, P., Electrical Instrumentation Department, Thapar Institute of Engineering Technology, Patiala, India	8th IEEE Power India International Conference, PIICON 2018	2018	
454	Investigation of Water Drop on Silicone Rubber Insulator for High Voltage Transmission Line Using FEM	Srivastava V., Rajpurohit B.S., Kaur M.	Srivastava, V., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajpurohit, B.S., School of Computing and Electrical Engineering, Indian Institute of Technology Mandi, Mandi, India; Kaur, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	8th IEEE Power India International Conference, PIICON 2018	2018	
455	Numerical Analysis of Water drop on Silicone Rubber Insulator for High Voltage Power Transmission Line	Srivastava V., Rajpurohit B.S., Kaur M.	Srivastava, V., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajpurohit, B.S., School of Computing and Electrical Engineering, Indian Institute of Technology Mandi, Mandi, India; Kaur, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	8th IEEE Power India International Conference, PIICON 2018	2018	
456	Contingency Assessment of Radial Distribution System	Awasthi H., Kaur M.	Awasthi, H., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Kaur, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering Technology, Patiala, India	8th IEEE Power India International Conference, PIICON 2018	2018	
457	Impact of storage device on Load frequency control of a two-Area renewable penetrated power system	Jood P., Aggarwal S.K., Chopra V.	Jood, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Aggarwal, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Chopra, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	8th IEEE Power India International Conference, PIICON 2018	2018	
458	Design of a novel energy efficient routing framework for Wireless Nanosensor Networks	Verma S., Kaur S., Dhiman G., Kaur A.	Verma, S., Dr BR Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Kaur, S., Dr BR Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Dhiman, G., Thapar University, Patiala, Punjab, India; Kaur, A., Thapar University, Patiala, Punjab, India	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
459	Abnormality detection in ECG using hybrid feature extraction approach	Singh R., Rajpal N., Mehta R.	Singh, R., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Rajpal, N., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Mehta, R., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	
460	Machine Learning Based Saliency Algorithm for Image Forgery Classification and Localization	Thakur A., Jindal N.	Thakur, A., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, India	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	
461	A comparison of road network extraction from High Resolution Images	Soni P.K., Rajpal N., Mehta R.	Soni, P.K., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Rajpal, N., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Mehta, R., CSED TIET, Patiala, Punjab, India	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	
462	Comparison on Generative Adversarial Networks - A Study	Sharma A., Jindal N., Thakur A.	Sharma, A., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Thakur, A., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	
463	Hybrid Approach to Detect Network Based Intrusion	Rani S., Jain S.	Rani, S., Department of Computer Science Engineering, Thapar Institute of Engineering Technology, Patiala, India; Jain, S., Department of Computer Science Engineering, Thapar Institute of Engineering Technology, Patiala, India	Proceedings - 2018 4th International Conference on Computing, Communication Control and Automation, ICCUBEA 2018	2018	
464	Performance Evaluation of Multi Hop Routing Using Software Defined Network	Paluck, Jain S.	Paluck, Department of Computer Science Engineering, Thapar Institute of Engineering Technology, Patiala, India; Jain, S., Department of Computer Science Engineering, Thapar Institute of Engineering Technology, Patiala, India	Proceedings - 2018 4th International Conference on Computing, Communication Control and Automation, ICCUBEA 2018	2018	
465	A Hybrid Approach for Outlier Detection in Weather Sensor Data	Saneja B., Rani R.	Saneja, B., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rani, R., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings of the 8th International Advance Computing Conference, IACC 2018	2018	
466	Augmented Map Based Traffic Density Estimation for Robot Navigation	Kaur B., Bhattacharya J.	Kaur, B., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Bhattacharya, J., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India	2018 IEEE Region 10 Symposium, Tensymp 2018	2018	
467	Smart Waste Bin: A New Approach for Waste Management in Large Urban Centers	Pardini K., Rodrigues J.J.P.C., Hassan S.A., Kumar N., Furtado V.	Pardini, K., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil; Instituto de Telecomunicações, Portugal, University of Fortaleza (UNIFOR), Fortaleza-CE, Brazil; Hassan, S.A., National University of Sciences and Technology (NUST), Islamabad, Pakistan; Kumar, N., National University of Sciences and Technology (NUST), Islamabad, Pakistan; Furtado, V., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India	IEEE Vehicular Technology Conference	2018	15502252
468	16 x40 Gb/s, 32 x40 Gb/s and 64 x40 Gb/s DWDM Network	Sharma D., Prajapati Y.K., Upadhyay A.	Sharma, D., ECED, TIET, Patiala, India; Prajapati, Y.K., ECED, MNNIT, Allahabad, India; Upadhyay, A., ASH, REC, Azamgarh, India	2018 International Conference on Computational and Characterization Techniques in Engineering and Sciences, CCTES 2018	2018	
469	Optimal Allocation of Dispersed Generators for Voltage-Dependent Practical Loads	Kaur N., Jain S.K.	Kaur, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Clemson University Power Systems Conference, PSC 2018	2018	
470	Cluster Head Selection Using Genetic Algorithm in Hierarchical Clustered Sensor Network	Garg N., Saxena S.	Garg, N., Thapar Institute of Engineering Technology, Department of Computer Science Engineering, Patiala, India; Saxena, S., Thapar Institute of Engineering Technology, Department of Computer Science Engineering, Patiala, India	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2018	
471	Survey on Fault Tolerant Techniques in Scientific Applications	Singh S., Chana I.	Singh, S., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Chana, I., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2018	
472	Performance Evaluation of AODV with Self-Cooperative Trust Scheme Using Jellyfish Delay Variance Attack	Deepika, Saxena S.	Deepika, Department of Computer Science Engineering, Thapar Institute of Engineering Technology, Patiala, India; Saxena, S., Department of Computer Science Engineering, Thapar Institute of Engineering Technology, Patiala, India	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
473	Data Consumption-Aware Load Forecasting Scheme for Smart Grid Systems	Kaneriya S., Tanwar S., Nayyar A., Verma J.P., Tyagi S., Kumar N., Obaidat M.S., Rodrigues J.J.P.C.	Kaneriya, S., Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Nayyar, A., Duy Tan University, Graduate School, Viet Nam; Verma, J.P., Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tyagi, S., Deemed to Be University, Thapar Institute of Engg. Tech., Patiala, PB, India; Kumar, N., Deemed to Be University, Thapar Institute of Engg. Tech., Patiala, PB, India; Obaidat, M.S., Duy Tan University, Graduate School, Viet Nam; Rodrigues, J.J.P.C., Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India	2018 IEEE Globecom Workshops, GC Wkshps 2018 - Proceedings	2018	
474	The future of cloud computing: Opportunities, challenges and research trends	Kaur A., Singh V.P., Singh Gill S.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, V.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh Gill, S., Cloud Computing and Distributed Systems (CLOUDS) Laboratory, School of Computing and Information Systems, University of Melbourne, Australia	Proceedings of the International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2018	2018	
475	Considering Various Equivalent Circuits for Solar PV Array Modelling	Chauhan A., Prakash S.	Chauhan, A., Department of Electrical Engineering, Institute of Technology, Gopeshwar, Uttarakhand, India, Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Prakash, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India	2nd International Conference on Energy, Power and Environment: Towards Smart Technology, ICEPE 2018	2018	
476	BHEEM: A Blockchain-Based Framework for Securing Electronic Health Records	Vora J., Nayyar A., Tanwar S., Tyagi S., Kumar N., Obaidat M.S., Rodrigues J.J.P.C.	Vora, J., Department of Computer Engineering, Nirma University, Ahmedabad, India; Nayyar, A., Raduate School Duy Tan University, Vietnam, Viet Nam; Tanwar, S., CE Deptt., Nazarbayev University, Astana, Kazakhstan; Tyagi, S., Kazakhstan and King Abdullah II School of IT, University of Jordan, Jordan; Kumar, N., Thapar Institute of Engg. and Tech, Deemed University, Patiala, India; Obaidat, M.S., National Institute of Telecommunications Inatel, Santa Rita Do Sapucaí-MG, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicacoes, Portugal, University of Fortaleza (UNIFOR), Fortaleza-CE, Brazil	2018 IEEE Globecom Workshops, GC Wkshps 2018 - Proceedings	2018	
477	DLoPc: Data Locality Independency-Aware VM Clustering in Cloud Computing	Mudgill V., Aujla G.S., Kumar N., Obaidat M.S., Prodan R.	Mudgill, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Aujla, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Obaidat, M.S., King Abdullah School of Information Technology, University of Jordan, Jordan; Prodan, R., Institute of Information Technology, University of Klagenfurt, Austria	2018 IEEE Globecom Workshops, GC Wkshps 2018 - Proceedings	2018	
478	Optimal Economic Emission Scheduling of Integrated Energy Systems Using Heuristic Optimization Technique	Patwal R.S., Narang N.	Patwal, R.S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Narang, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2nd International Conference on Energy, Power and Environment: Towards Smart Technology, ICEPE 2018	2018	
479	AdCaS: Adaptive Caching for Storage Space Analysis Using Content Centric Networking	Gulati A., Aujla G.S., Kumar N., Obaidat M.S., Ahmed S.H.	Gulati, A., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Aujla, G.S., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Kumar, N., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Obaidat, M.S., University of Jordan, King Abdullah School of Information Technology, Jordan; Ahmed, S.H., Georgia Southern University, Department of Computer Science, Statesboro, GA 30460, United States	2018 IEEE Globecom Workshops, GC Wkshps 2018 - Proceedings	2018	
480	Base Station Oriented Multi Route Diversity Protocol for Wireless Sensor Networks	Rishiwal V., Singh O., Tanwar S., Tyagi S., Budhiraja I., Kumar N., Obaidat M.S.	Rishiwal, V., M.J.P. Rohilkhand University, Bareilly, UP, India; Singh, O., M.J.P. Rohilkhand University, Bareilly, UP, India; Tanwar, S., Nirma University, Institute of Technology, Ahmedabad, India; Tyagi, S., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Budhiraja, I., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Obaidat, M.S., ECE Department, Nazarbayev University Kazakhstan, King Abdullah II School of IT, University of Jordan, Jordan	2018 IEEE Globecom Workshops, GC Wkshps 2018 - Proceedings	2018	
481	Hybrid Energy System for Upgrading the Rural Environment	Jariso M., Khan B., Tanwar S., Tyagi S., Rishiwal V.	Jariso, M., Hawassa University, Department of Electrical and Computer Engineering, Hawassa, Ethiopia; Khan, B., Hawassa University, Department of Electrical and Computer Engineering, Hawassa, Ethiopia; Tanwar, S., Nirma University, Institute of Technology, Ahmedabad, India; Tyagi, S., Deemed to Be University, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rishiwal, V., M.J.P. Rohilkhand University, Bareilly, UP, India	2018 IEEE Globecom Workshops, GC Wkshps 2018 - Proceedings	2018	
482	Temperature-dependent Delay, Power and Frequency Analysis of Multilayer Graphene Nanoribbon Interconnects	Shrada S., Rai M.K.	Shrada, S., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rai, M.K., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Region 10 Annual International Conference, Proceedings/TENCON	2018	21593442
483	EEG Artifact Removal and Noise Suppression Using Hybrid Glct -lca Technique	Jindal K., Upadhyay R., Singh H.S.	Jindal, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Upadhyay, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Congress on Ultra Modern Telecommunications and Control Systems and Workshops	2018	21570221

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
484	A comparative analysis of evolutionary algorithms for the prediction of software change	Kaur L., Mishra A.	Kaur, L., Deptt. of Comp. Science Engineering, Thapar Institute of Engineering Technology, Patiala, India; Mishra, A., Deptt. of Comp. Science Engineering, Thapar Institute of Engineering Technology, Patiala, India	Proceedings of the 2018 13th International Conference on Innovations in Information Technology, IIT 2018	2018	
485	CI-DPF: A Cloud IoT based Framework for Diabetes Prediction	Kaur P., Sharma N., Singh A., Gill B.	Kaur, P., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, N., Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Thapar Institute of Engineering and Technology, Patiala, India; Gill, B., British Columbia Institute of Technology, Vancouver, Canada	2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2018	2018	
486	Stock Market Prediction using Machine Learning Algorithms: A Classification Study	Misra M., Yadav A.P., Kaur H.	Misra, M., Deemed to Be University Patiala, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India; Yadav, A.P., Deemed to Be University Patiala, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India; Kaur, H., Deemed to Be University Patiala, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEEE 2018	2018	
487	Applying Descriptive and Predictive Analytics on Academic Dataset	Phutela A., Kaur H.	Phutela, A., Thapar Institute of Engineering and Technology(Deemed to Be University), Department of Computer Science and Engineering, Patiala, India; Kaur, H., Thapar Institute of Engineering and Technology(Deemed to Be University), Department of Computer Science and Engineering, Patiala, India	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEEE 2018	2018	
488	Performance investigation of high capacity 10 Tb/s LP-MDM-WDM over multimode fiber link for short reach applications	Gupta R., Kaler R.S.	Gupta, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147001, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147001, India	Optoelectronics and Advanced Materials, Rapid Communications	2018	18426573
489	Scalable metadata management techniques for ultra-large distributed storage systems - A systematic review	Singh H.J., Bawa S.	Singh, H.J., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Bawa, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	ACM Computing Surveys	2018	3600300
490	Modified cuckoo search algorithm for multi objective flexible manufacturing system	Bharti P., Jain S.	Bharti, P., CSED, Thapar University, Patiala, Punjab, India; Jain, S., CSED, Thapar University, Patiala, Punjab, India	International Journal of Mechanical Engineering and Technology	2018	9766340
491	Development of automatic packaging system using PLC and SCADA for industries	Gupta T., Kamboj S.	Gupta, T., EIED, Thapar Institute of Engineering and Technology, Patiala, India; Kamboj, S., EIED, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Mechanical Engineering and Technology	2018	9766340
492	Utilization of bagasse ash as a partial replacement of cement in self-compacting concrete	Khatun A., Singh K., Sharma R.	Khatun, A., Civil Engineering Department, Chandigarh University, India; Singh, K., Civil Engineering Department, Chandigarh University, India; Sharma, R., Civil Engineering Department, Thapar University, Patiala, India	International Journal of Civil Engineering and Technology	2018	9766308
493	An experimental study on geopolymer concrete with bagasse ash and metakaolin: A green concrete	Thakur P., Singh K., Sharma R.	Thakur, P., Department of Civil Engineering, Chandigarh University, India; Singh, K., Department of Civil Engineering, Chandigarh University, India; Sharma, R., Civil Engineering, Thapar University Patiala, India	International Journal of Civil Engineering and Technology	2018	9766308
494	Benders decomposition for distribution networks with crossdocking centre	Singh M., Aggarwal D., Kumar V.	Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, India; Aggarwal, D., Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, India	Pertanika Journal of Science and Technology	2018	1287680
495	Modelling of smart car parking system using PLC	Singh G., Kamboj S.	Singh, G., EIED, Thapar Institute of Engineering and Technology, Patiala, India; Kamboj, S., EIED, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Mechanical Engineering and Technology	2018	9766340
496	A low cost wireless patient-health tracking system	Singh M., Jain D.	Singh, M., EIED, Thapar University, Patiala, India; Jain, D., EIED, Thapar University, Patiala, India	Indian Journal of Public Health Research and Development	2018	9760245
497	A Quick Gbest Guided Artificial Bee Colony algorithm for stock market prices prediction	Shah H., Tairan N., Garg H., Ghazali R.	Shah, H., College of Computer Science, King Khalid University, Abha, 62529, Saudi Arabia; Tairan, N., College of Computer Science, King Khalid University, Abha, 62529, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Ghazali, R., Faculty of Computer Science and Information Technology, Universiti Tun Hussein Onn Malaysia, Batu Pahat Johor, 86400, Malaysia	Symmetry	2018	20738994
498	Multi-criteria decision-making method based on prioritized muirhead mean aggregation operator under neutrosophic set environment	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Symmetry	2018	20738994

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
499	"Word Blindness" (Dyslexia): A bibliometric analysis of global research in last fifty years	Ram S.	Ram, S., Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	DESIDOC Journal of Library and Information Technology	2018	9740643
500	Test data compression using hierarchical block merging technique	Vohra H., Singh A.	Vohra, H., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, India; Singh, A., Computer Science and Engineering Department, Punjabi University, Patiala, Punjab, India	IET Computers and Digital Techniques	2018	17518601
501	Adaptive neuro-fuzzy inference system-based path planning of 5-degrees-of-freedom spatial manipulator for medical applications	Narayan J., Singla E., Soni S., Singla A.	Narayan, J., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singla, E., Mechanical Engineering Department, Indian Institute of Technology Ropar (IIT Ropar), Rupnagar, India; Soni, S., Biomedical Instrumentation Division, CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2018	9544119
502	Colour image encryption technique using differential evolution in non-subsampled contourlet transform domain	Kaur M., Kumar V.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India	IET Image Processing	2018	17519659
503	A novel dehazing model for remote sensing images	Singh D., Kumar V.	Singh, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Computers and Electrical Engineering	2018	457906
504	A hybrid fuzzy time series forecasting model based on granular computing and bio-inspired optimization approaches	Singh P., Dhiman G.	Singh, P., Smt. Chandaben Mohanbhai Patel Institute of Computer Applications, CHARUSAT Campus, Changa, Anand, Gujarat 388421, India; Dhiman, G., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Computational Science	2018	18777503
505	A Provably-Secure Cross-Domain Handshake Scheme with Symptoms-Matching for Mobile Healthcare Social Network	He D., Kumar N., Wang H., Wang L., Choo K.-K.R., Vinel A.	He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, Hubei, 430072, China, State Key Laboratory of Cryptology, Beijing, 100878, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab 147004, India; Wang, H., School of Computer Science and Technology, Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, 210003, China; Wang, L., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, Computer School, Wuhan University, Wuhan, Hubei, 430072, China; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States, School of Information Technology and Mathematical Sciences, University of South Australia, Adelaide, SA 5001, Australia, School of Computer Science, China University of Geosciences, Wuhan, 430074, China; Vinel, A., Halmstad University, Halmstad, 301 18, Sweden	IEEE Transactions on Dependable and Secure Computing	2018	15455971
506	Generalized MGF based analysis of line-of-sight plus scatter fading model and its applications to MIMO-OFDM systems	Singh D., Joshi H.D.	Singh, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	AEU - International Journal of Electronics and Communications	2018	14348411
507	Grid interfaced solar photovoltaic system using ZA-LMS based control algorithm	Badoni M., Singh A., Singh V.P., Tripathi R.N.	Badoni, M., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Electrical Engineering, Delhi Technological University, Delhi, India; Singh, V.P., Department of Electrical Engineering, Government Engineering College, SonbhadraUP, India; Tripathi, R.N., Next Generation Power Electronics Research Center, Kyushu Institute of Technology, Japan	Electric Power Systems Research	2018	3787796
508	Optimized Routing for Efficient Data Dissemination in MANET to Meet the Fast-Changing Technology	Prakash D., Kumar N., Garg M.L.	Prakash, D., School of Computer Science and Engineering, Faculty of Engineering, SMVD University, Katra, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Garg, M.L., Department of Computer Science and Engineering, DIT University, Dehradun, India	Journal of Global Information Management	2018	10627375
509	Combinatorial interpretations of mock theta functions by attaching weights	Sharma S., Rana M.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Discrete Mathematics	2018	0012365X
510	Investigation of nuclear stopping observable in heavy ion collisions	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University Gharuan, Mohali, Punjab 140413, India	Nuclear Physics A	2018	3759474
511	Second-generation wavelet optimized finite difference method (SGWOFD) for solution of Burger's equation with different boundary conditions	Sharma D., Goyal K.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Wavelets, Multiresolution and Information Processing	2018	2196913

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
512	An approach for developing nickel–alumina powder-based metal matrix composite cladding on SS-304 substrate through microwave heating	Kaushal S., Singh B., Gupta D., Bhowmick H., Jain V.	Kaushal, S., Mechanical Engineering Department, Thapar University, India; Singh, B., Mechanical Engineering Department, Thapar University, India; Gupta, D., Mechanical Engineering Department, Thapar University, India; Bhowmick, H., Mechanical Engineering Department, Thapar University, India; Jain, V., Mechanical Engineering Department, Thapar University, India	Journal of Composite Materials	2018	219983
513	Analysis of cracked plate using higher-order shear deformation theory: Asymptotic crack-tip fields and XIGA implementation	Singh S.K., Singh I.V., Mishra B.K., Bhardwaj G., Singh S.K.	Singh, S.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Uttarakhand, 247667, India; Singh, I.V., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Uttarakhand, 247667, India; Mishra, B.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Uttarakhand, 247667, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147001, India; Singh, S.K., School of Civil Engineering, Galgotias University, Greater Noida, India	Computer Methods in Applied Mechanics and Engineering	2018	457825
514	Monitoring invisible corrosion in concrete using a combination of wave propagation techniques	Sharma A., Sharma S., Sharma S., Mukherjee A.	Sharma, A., Civil Engineering Department, Lovely Professional University, Phagwara, India; Sharma, S., Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mukherjee, A., Civil Engineering Department, Curtin University, Bentley, WA 6102, Australia	Cement and Concrete Composites	2018	9589465
515	An efficient multipoint 5-axis tool positioning method for tensor product surfaces	Duvedi R.K., Bedi S., Mann S.	Duvedi, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Advanced Manufacturing Technology	2018	2683768
516	Mechanical and thermal properties of SrO/BaO modified Y2O3-Al2O3-B2O3-SiO2 glasses and their compatibility with solid oxide fuel cell components	Kaur N., Kaur G., Kumar D., Singh K.	Kaur, N., Department of Physics, Punjabi University, Patiala, Punjab 147004, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Kumar, D., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India	Journal of Physics and Chemistry of Solids	2018	223697
517	Effect of dual particle size (DPS) on dry sliding wear behaviour of LM30/sillimanite composites	Sharma S., Nanda T., Pandey O.P.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Tribology International	2018	0301679X
518	GIS-based evolutionary optimized Gradient Boosted Decision Trees for forest fire susceptibility mapping	Sachdeva S., Bhatia T., Verma A.K.	Sachdeva, S., Department of Computer Science and Engineering, Thapar University, Patiala, India; Bhatia, T., Department of Computer Science and Engineering, Thapar University, Patiala, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, India	Natural Hazards	2018	0921030X
519	Influence of MoS2, H3BO3, and MWCNT Additives on the Dry and Lubricated Sliding Tribology of AMMC-Steel Contacts	Singh H., Singh P., Bhowmick H.	Singh, H., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Singh, P., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Bhowmick, H., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India	Journal of Tribology	2018	7424787
520	Performance evaluation of a brine-recirculation multistage flash desalination system coupled with nanofluid-based direct absorption solar collector	Garg K., Khullar V., Das S.K., Tyagi H.	Garg, K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab 140001, India; Khullar, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Das, S.K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab 140001, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab 140001, India	Renewable Energy	2018	9601481
521	Intriguing role of TiO2 in glass-ceramics: Bioactive and magneto-structural properties	Danewalia S.S., Singh K.	Danewalia, S.S., School of Physics and Materials Science, Thapar University, Patiala, Punjab, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, Punjab, India	Journal of the American Ceramic Society	2018	27820
522	A Novel Design and FPGA Implementation of Filters Adapted Using LMS Variants	Sakshi, Kumar R.	Sakshi, Department of Electronics and Communication Engineering, Thapar University, Punjab, Patiala, 147001, India; Kumar, R., Department of Electronics and Communication Engineering, Thapar University, Punjab, Patiala, 147001, India	Journal of Circuits, Systems and Computers	2018	2181266
523	Design of Secure and Lightweight Authentication Protocol for Wearable Devices Environment	Das A.K., Wazid M., Kumar N., Khan M.K., Choo K.-K.R., Park Y.	Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Wazid, M., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Khan, M.K., Center of Excellence in Information Assurance, King Saud University, Riyadh, 11653, Saudi Arabia; Choo, K.-K.R., Department of Information Systems and Cyber Security, Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249, United States; Park, Y., School of Electronics Engineering, Kyungpook National University, Daegu, 702-701, South Korea	IEEE Journal of Biomedical and Health Informatics	2018	21682194

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
524	Evolutionary radial basis function network for gestational diabetes data analytics	Moreira M.W.L., Rodrigues J.J.P.C., Kumar N., Al-Muhtadi J., Korotaev V.	Moreira, M.W.L., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, Instituto Federal de Educação, Ciência e Tecnologia do Ceará (IFCE), Aracati, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil, ITMO University, Saint Petersburg, Russian Federation, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil; Kumar, N., Thapar University, Patiala, Punjab, India; Al-Muhtadi, J., College of Computer and Information Sciences (CCIS), King Saud University, Riyadh, 12372, Saudi Arabia; Korotaev, V., ITMO University, Saint Petersburg, Russian Federation	Journal of Computational Science	2018	18777503
525	An efficient ECC-based provably secure three-factor user authentication and key agreement protocol for wireless healthcare sensor networks	Challa S., Das A.K., Odelu V., Kumar N., Kumari S., Khan M.K., Vasilakos A.V.	Challa, S., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad 500 032, India; Odelu, V., Department of Computer Science and Engineering, Indian Institute of Information Technology Chittoor, Sri City 517 588, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala 147 004, India; Kumari, S., Department of Mathematics, Ch. Charan Singh University, Meerut 250 005, India; Khan, M.K., Center of Excellence in Information Assurance, King Saud University, Riyadh, Saudi Arabia; Vasilakos, A.V., Department of Computer Science, Electrical and Space Engineering, Lulea University of Technology, Lulea 971 87, Sweden	Computers and Electrical Engineering	2018	457906
526	SDN-based energy management scheme for sustainability of data centers: An analysis on renewable energy sources and electric vehicles participation	Aujla G.S., Kumar N.	Aujla, G.S., Computer Science & Engineering Department, Thapar University, Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar University, Patiala, India	Journal of Parallel and Distributed Computing	2018	7437315
527	A Novel Authentication and Key Agreement Scheme for Implantable Medical Devices Deployment	Wazid M., Das A.K., Kumar N., Conti M., Vasilakos A.V.	Wazid, M., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Conti, M., Department of Mathematics, University of Padua, Padua, 35122, Italy; Vasilakos, A.V., Department of Computer Science, Electrical and Space Engineering, Lulea University of Technology, Lulea, 971 87, Sweden	IEEE Journal of Biomedical and Health Informatics	2018	21682194
528	A fast partition-based batch-mode active learning technique using SVM classifier	Singla A., Patra S.	Singla, A., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Patra, S., Department of Computer Science and Engineering, Tezpur University, Tezpur, 784028, India	Soft Computing	2018	14327643
529	Hydro-thermal generation scheduling using integrated gravitational search algorithm and predator-prey optimization technique	Narang N.	Narang, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India	Neural Computing and Applications	2018	9410643
530	An adaptive security model for dynamic node behaviour in MANETs	Anand A., Rani R., Aggarwal H.	Anand, A., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Rani, R., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Aggarwal, H., Department of Computer Engineering, Punjabi University, Patiala, 147002, India	KSI Transactions on Internet and Information Systems	2018	19767277
531	Commentary upon descriptive data analytics	Kaur H., Phutela A.	Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Phutela, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India	Proceedings of the 2nd International Conference on Inventive Systems and Control, ICISC 2018	2018	
532	Real-time control of a rotary inverted pendulum using robust LQR-based ANFIS controller	Chawla I., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar University, Patiala, 147001, India; Singla, A., Department of Mechanical Engineering, Thapar University, Patiala, 147001, India	International Journal of Nonlinear Sciences and Numerical Simulation	2018	15651339
533	EnergyChain: Enabling energy trading for smart homes using blockchains in smart grid ecosystem	Aggarwal S., Jindal A., Chaudhary R., Dua A., Aujla G.S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chaudhary, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dua, A., Birla Institute of Technology and Science Pilani, Rajasthan, India; Aujla, G.S., Chandigarh University, Mohali, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings of the 1st ACM MobiHoc Workshop on Networking and Cybersecurity for Smart Cities, SmartCitiesSecurity 2018	2018	
534	Assessment of non-polynomial shear deformation theories for thermo-mechanical analysis of laminated composite plates	Joshan Y.S., Grover N., Singh B.N.	Joshan, Y.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, B.N., Department of Aerospace Engineering, Indian Institute of Technology Kharagpur, West Bengal, 721302, India	Steel and Composite Structures	2018	12299367
535	Template free synthesis route to monophasic BaMgAl10O17:Eu2+ with high luminescence efficiency	Jeet S., Pandey O.P.	Jeet, S., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147002, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147002, India	Journal of Alloys and Compounds	2018	9258388

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
536	In vitro propagation of important rootstocks of apple for rapid cloning and improvement	Kaur A., Singh D., Varsha, Gupta N., Kumar A.	Kaur, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, India; Singh, D., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, India; Varsha, Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, India; Gupta, N., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, India	Biotechnologies of Crop Improvement	2018	
537	Design of 3-factor strict local language in ethological data mining of bengalese Finch's and White-Rumped Munia's song	Mathur P., Dagar V., Kumar A.	Mathur, P., Computer Science and Engineering Department, Thapar University, Patiala, India; Dagar, V., Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, A., Computer Science and Engineering Department, Thapar University, Patiala, India	ICNC-FSKD 2017 - 13th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery	2018	
538	A voltammetric method for Fe(III) in blood serum using a screen-printed electrode modified with a Schiff base ionophore	Mittal S.K., Rana S., Kaur N., Banks C.E.	Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, N., Centre of Nanoscience and Nanotechnology, Panjab University, Chandigarh Punjab, 160014, India; Banks, C.E., School of Chemistry and the Environment, Manchester Metropolitan University, Manchester, M1 5GD, United Kingdom	Analyst	2018	32654
539	Optimization of Hydrogen-Enriched Biogas by Dry Oxidative Reforming with Nickel Nanopowder Using Response Surface Methodology	Rosha P., Singh R., Mohapatra S.K., Mahla S.K., Dhir A.	Rosha, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Hoshiarpur Campus, Hoshiarpur, Punjab, 146001, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Energy and Fuels	2018	8870624
540	Modeling, analysis and control of a single stage linear inverted pendulum	Singh G., Singla A.	Singh, G., Dept. of Mechanical Engineering, Indian Institute of Technology Delhi, Delhi, India; Singla, A., Dept. of Mechanical Engineering, Thapar University, Patiala, Punjab, India	IEEE International Conference on Power, Control, Signals and Instrumentation Engineering, ICPCSI 2017	2018	
541	Churn prediction in telecommunication using machine learning	Mishra K., Rani R.	Mishra, K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Rani, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	
542	An adaptive quad tree based transform domain steganography for textual data	Kaur J., Pandey S.	Kaur, J., Computer Science and Engineering, Department Thapar University, Patiala, Punjab, India; Pandey, S., Computer Science and Engineering, Department Thapar University, Patiala, Punjab, India	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	
543	PV and EV generation to reduce change in frequency and change in tie-line power fluctuations in three area power system	Kumar R., Bansal R.K., Prakash S.	Kumar, R., Department of Electrical Engineering Guru Kashi University, Bathinda, Punjab, India; Bansal, R.K., Department of Electrical Engineering Guru Kashi University, Bathinda, Punjab, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	
544	Cavity Soliton Molecules and All-Optical Push-Broom Effect	Kaur B., Jana S.	Kaur, B., Wolfson Centre for Bulk Solids Handling Technology, University of Greenwich, Chatham, ME4 4TB, United Kingdom; Jana, S., School of Physics and Materials Science, Thapar University, Patiala, 147001, India	Journal of Lightwave Technology	2018	7338724
545	Multi-objective spotted hyena optimizer: A Multi-objective optimization algorithm for engineering problems	Dhiman G., Kumar V.	Dhiman, G., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Knowledge-Based Systems	2018	9507051
546	Aggregation induced emission-excited state intramolecular proton transfer based "off-on" fluorescent sensor for Al ³⁺ ions in liquid and solid state	Kumar G., Paul K., Luxami V.	Kumar, G., School of Chemistry and Biochemistry, Thapar University, Patiala, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, India	Sensors and Actuators, B: Chemical	2018	9254005
547	Tariff calculation using hybrid smart energy meter and fuzzy inference system	Mehta S., Kaushal J., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaushal, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 IEEMA Engineer Infinite Conference, eTechNXT 2018	2018	
548	Space vector based PWM sequences for Z-source principal derived inverter topologies	Singh S., Sonar S.	Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	2018 IEEMA Engineer Infinite Conference, eTechNXT 2018	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
549	Hydromagnetic flow of a heat radiating chemically reactive cassin nanofluid past a stretching sheet with convective boundary conditions	Das M., Mahanta G., Parida S.B., Nandkeolyar R.	Das, M., Department of Mathematics, School of Applied Sciences, Kalinga Institute of Industrial Technology, Deemed to Be University, Bhubaneswar, 751024, India; Mahanta, G., Department of Mathematics, C. V. Raman College of Engineering, Bhubaneswar, 752054, India; Parida, S.B., Department of Mathematics, School of Applied Sciences, Kalinga Institute of Industrial Technology, Deemed to Be University, Bhubaneswar, 751024, India; Nandkeolyar, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2018	0094243X
550	Learning in an interactive simulation tool against landslide risks: The role of strength and availability of experiential feedback	Chaturvedi P., Arora A., Dutt V.	Chaturvedi, P., Applied Cognitive Science Laboratory, Indian Institute of Technology, Mandi, 175005, India, Defence Terrain Research Laboratory, Defence Research and Development Organization, Delhi, 110054, India; Arora, A., Applied Cognitive Science Laboratory, Indian Institute of Technology, Mandi, 175005, India, Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Dutt, V., Applied Cognitive Science Laboratory, Indian Institute of Technology, Mandi, 175005, India	Natural Hazards and Earth System Sciences	2018	15618633
551	On processing of Ni-WC based functionally graded composite clads through microwave heating	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Bhowmick, H., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Materials and Manufacturing Processes	2018	10426914
552	Analyses of a heterogeneous lattice hydrodynamic model with low and high-sensitivity vehicles	Kaur R., Sharma S.	Kaur, R., School of Mathematics, Thapar University, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar University, Patiala, 147004, India	Physics Letters, Section A: General, Atomic and Solid State Physics	2018	3759601
553	Enablement of IoT based context-aware smart home with fog computing	Bansal M., Chana I., Clarke S.	Bansal, M., Thapar University, India; Chana, I., Thapar University, India; Clarke, S., Trinity College, Ireland	Fog Computing: Breakthroughs in Research and Practice	2018	
554	Residence time distribution studies using radiotracers in chemical industry—A review	Sheoran M., Chandra A., Bhunia H., Bajpai P.K., Pant H.J.	Sheoran, M., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Pant, H.J., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, India	Chemical Engineering Communications	2018	986445
555	Some new operations over the generalized intuitionistic fuzzy sets and their application to decision-making process	Jamkhaneh E.B., Garg H.	Jamkhaneh, E.B., Department of Statistics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Garg, H., School of Mathematics, Thapar University Patiala, Patiala, Punjab 147004, India	Granular Computing	2018	23644966
556	Functional role of cyclinD1 polymorphism (G870A) in modifying susceptibility and overall survival of North Indian lung cancer patients	Pandey A., Bahl C., Sharma S., Singh N., Behera D.	Pandey, A., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Bahl, C., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India	Tumori	2018	3008916
557	An intuitive general rank-based correlation coefficient	Pandove D., Goel S., Rani R.	Pandove, D., Research Lab, Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Goel, S., Department of Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India; Rani, R., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India	Frontiers of Information Technology and Electronic Engineering	2018	20959184
558	Solar selective volumetric receivers for harnessing solar thermal energy	Khullar V., Tyagi H., Otanicar T.P., Hewakuruppu Y.L., Taylor R.A.	Khullar, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Tyagi, H., School of Mechanical, Materials, and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, 140001, India; Otanicar, T.P., Department of Mechanical Engineering, University of Tulsa, Tulsa, OK 74104, United States; Hewakuruppu, Y.L., School of Mechanical and Manufacturing Engineering, University of New South Wales, Sydney, NSW 2052, Australia; Taylor, R.A., School of Mechanical and Manufacturing Engineering, School of Photovoltaics and Renewable Energy Engineering, University of New South Wales, Sydney, NSW 2052, Australia	Journal of Heat Transfer	2018	221481
559	A novel approach for clustering big data based on mapreduce	Bathla G., Aggarwal H., Rani R.	Bathla, G., Departement of Computer Engineering, Punjabi University Patiala, Patiala, India; Aggarwal, H., Departement of Computer Engineering, Punjabi University Patiala, Patiala, India; Rani, R., Departement of Computer Science and Engineering, Thapar University Patiala, Patiala, India	International Journal of Electrical and Computer Engineering	2018	20888708
560	On processing of Ni-Cr3C2 based functionally graded clads through microwave heating	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Research Express	2018	20531591
561	Effects of rotation and tidal distortions on the shapes of radial velocity curves of polytropic models of pulsating variable stars	Kumar T., Lal A.K., Pathania A.	Kumar, T., School of Mathematics, Thapar University, Patiala, India; Lal, A.K., School of Mathematics, Thapar University, Patiala, India; Pathania, A., School of Mathematics, Thapar University, Patiala, India	Research in Astronomy and Astrophysics	2018	16744527

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
562	An Efficient Writing-Zone Identification Technique for Online Handwritten Gurmukhi Character Recognition	Verma K., Sharma R.K.	Verma, K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Sharma, R.K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2018	3698203
563	Significant enhancement in the propagation of cosh-Gaussian laser beam in a relativistic-ponderomotive plasma using ramp density profile	Kumar H., Aggarwal M., Richa, Sharma D., Chandok S., Gill T.S.	Kumar, H., I.K. Gujral Punjab Technical University, Kapurthala, 144603, India; Aggarwal, M., I.K. Gujral Punjab Technical University, Kapurthala, 144603, India, Department of Physics, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Richa, I.K. Gujral Punjab Technical University, Kapurthala, 144603, India; Sharma, D., Department of Mathematics, Lyallpur Khalsa College, Jalandhar, 144001, India; Chandok, S., Department of Mathematics, Thapar University, Patiala, 147004, India; Gill, T.S., Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	Laser and Particle Beams	2018	2630346
564	Vague entropy measure for complex vague soft sets	Selvachandran G., Garg H., Quek S.G.	Selvachandran, G., Department of Actuarial Science and Applied Statistics, Faculty of Business and Information Science, UCSI University, Jalan Menara Gading, Cheras, Kuala Lumpur, 56000, Malaysia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Quek, S.G., A-Level Academy, UCSI College KL Campus, Lot 12734, Jalan Choo Lip Kung, Taman Taynton View, Cheras, Kuala Lumpur, 56000, Malaysia	Entropy	2018	10994300
565	Hypsometric analysis of the micro-watersheds with different management practices located on Shivalik foothills	Walia S., Singh S., Loshali D.C., Babbar R.	Walia, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Loshali, D.C., Forestry and Land Use Division, Punjab Remote Sensing Centre, Punjab Agriculture University, Ludhiana, Punjab, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Arabian Journal of Geosciences	2018	18667511
566	Metal induction of two metallothionein genes in the ectomycorrhizal fungus suillus himalayensis and their role in metal tolerance	Kalsotra T., Khullar S., Agnihotri R., Reddy M.S.	Kalsotra, T., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khullar, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agnihotri, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Microbiology (United Kingdom)	2018	13500872
567	A micropropagation system for the cloning of cissus quadrangularis-a valuable medicinal plant	Anand M., Kaur T.	Anand, M., Amity Institute of Biotechnology, Amity University, Gurgaon, Haryana, India; Kaur, T., Department of Biotechnology, Thapar University, Patiala, Punjab, India	Medicinal Plants	2018	9754261
568	UNLization of Punjabi text for natural language processing applications	Agarwal V., Kumar P.	Agarwal, V., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, P., Thapar Institute of Engineering and Technology, Patiala, 147001, India	Sadhana - Academy Proceedings in Engineering Sciences	2018	2562499
569	Role of polymorphic XRCC6 (Ku70)/XRCC7 (DNA-PKcs) genes towards susceptibility and prognosis of lung cancer patients undergoing platinum based doublet chemotherapy	Singh A., Singh N., Behera D., Sharma S.	Singh, A., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India	Molecular Biology Reports	2018	3014851
570	Effectiveness of magnetic field on the flow of Jeffrey fluid in an annulus with rotating concentric cylinders	Kumar D., Ramesh K., Chandok S.	Kumar, D., Department of Mathematics, Lovely Professional University, Jalandhar, 144411, India, Department of Mathematics, IKG Punjab Technical University, Kapurthala, 144603, India; Ramesh, K., Department of Mathematics, Lovely Professional University, Jalandhar, 144411, India; Chandok, S., School of Mathematics, Thapar University, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	16785878
571	Semi-automatic leaf disease detection and classification system for soybean culture	Kaur S., Pandey S., Goel S.	Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Pandey, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Goel, S., Computer Science and Engineering Department, Bennett University, Greater Noida, UP, India	IET Image Processing	2018	17519659
572	Endophytic fungi of Tinospora cordifolia with anti-gout properties	Kapoor N., Saxena S.	Kapoor, N., #BC-213, BC Link Block (First Floor) Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Department of Microbiology, Uttaranchal (PG) College of Biomedical Sciences and Hospital, Dehradun, Uttarakhand 248002, India; Saxena, S., #BC-213, BC Link Block (First Floor) Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	3 Biotech	2018	2190572X
573	In vivo automated quantification of quality of apples during storage using optical coherence tomography images	Srivastava V., Dalal D., Kumar A., Prakash S., Dalal K.	Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Dalal, D., Department of Biophysics, All India Institute of Medical Science, New Delhi, India; Kumar, A., Department of Electrical, Electronic and Computer Engineering, University of Pretoria, Pretoria, South Africa; Prakash, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Dalal, K., All India Institute of Ayurveda, Sarita Vihar, New Delhi, India	Laser Physics	2018	1054660X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
574	Influence of single and dual particle reinforcements on the corrosion behavior of aluminum alloy based composites	Singla Y.K., Chhibber R., Avdesh, Goyal S., Sharma V.	Singla, Y.K., Department of Mechanical and Industrial Engineering, IITR, Roorkee, Uttarakhand, India, Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Chhibber, R., Department of Mechanical Engineering, IIT Jodhpur, Jodhpur, Rajasthan, India; Avdesh, Department of Design, ISGEC Heavy Engineering Limited, Yamunanagar, Haryana, India; Goyal, S., Department of Civil Engineering, Thapar University, Patiala, Punjab, India; Sharma, V., Department of Metallurgical and Materials Engineering, IITR, Roorkee, Uttarakhand, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207
575	Influence of EGR on the simultaneous reduction of NO _x -smoke emissions trade-off under CNG-biodiesel dual fuel engine	Mahla S.K., Dhir A., Gill K.J.S., Cho H.M., Lim H.C., Chauhan B.S.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, Punjab, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gill, K.J.S., Department of Mechanical Engineering, Gulzar Group of Institutes, Khanna, Ludhiana, Punjab, India; Cho, H.M., Department of Automotive and Mechanical Engineering, Kongju National University, South Korea; Lim, H.C., School of Mechanical Engineering, Pusan National University, South Korea; Chauhan, B.S., School of Mechanical Engineering, Lovely Professional University Punjab, India	Energy	2018	3605442
576	Influence of flow velocity and flexural rigidity on the flow induced vibration and acoustic characteristics of a flexible plate	Purohit A., Darpe A.K., Singh S.P.	Purohit, A., Mechanical Engineering Department, Thapar University, Patiala, India; Darpe, A.K., Department of Mechanical Engineering, Indian Institute of Technology Delhi, India; Singh, S.P., Department of Mechanical Engineering, Indian Institute of Technology Delhi, India	JVC/Journal of Vibration and Control	2018	10775463
577	Some Aggregation Operators for Linguistic Intuitionistic Fuzzy Set and its Application to Group Decision-Making Process Using the Set Pair Analysis	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar University, Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2018	2193567X
578	Secure sharing of mobile personal healthcare records using certificateless proxy re-encryption in cloud	Bhatia T., Verma A.K., Sharma G.	Bhatia, T., Department of Computer Science and Engineering, Thapar University, Patiala, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, India; Sharma, G., Département d'Informatique, Université libre de Bruxelles, Brussels, Belgium	Transactions on Emerging Telecommunications Technologies	2018	21615748
579	DPTR: Distributed priority tree-based routing protocol for FANETs	Sharma V., Kumar R., Kumar N.	Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Computer Communications	2018	1403664
580	A robust correlation coefficient measure of dual hesitant fuzzy soft sets and their application in decision making	Arora R., Garg H.	Arora, R., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala Punjab, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala Punjab, 147004, India	Engineering Applications of Artificial Intelligence	2018	9521976
581	Experimental study of basin type vertical multiple effect diffusion solar still integrated with mini solar pond to generate nocturnal distillate	Dhindsa G.S., Mittal M.K.	Dhindsa, G.S., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Mittal, M.K., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India	Energy Conversion and Management	2018	1968904
582	Dynamics of 17F + 58Ni reaction via complete and incomplete fusion processes at above barrier energies	Grover N., Sandhu K., Sharma M.K.	Grover, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sandhu, K., Department of Physics, GSSDGS Khalsa College, Patiala, 147001, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2018	3759474
583	On developing improved modelling for particle velocity and solids friction for fluidized dense-phase pneumatic transport systems	Sharma K., Mallick S.S., Mittal A., Pan R.	Sharma, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mallick, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mittal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pan, R., Fujian Longking Co., Ltd., Longyan, Fujian 364000, China	Powder Technology	2018	325910
584	Room temperature magnetoelectric and magnetodielectric properties of 2-2 bilayer 0.50Pb (Ni ₁ /3Nb ₂ /3) O ₃ -0.35PbTiO ₃ -0.15PbZrO ₃ /CoFe ₂ O ₄ thin film	Ade R., Karthik T., Kolte J., Sambasiva V., Kulkarni A.R., Venkataramani N.	Ade, R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Karthik, T., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Sambasiva, V., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Kulkarni, A.R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Venkataramani, N., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India	Scripta Materialia	2018	13596462

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585	Linguistic Pythagorean fuzzy sets and its applications in multiattribute decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	International Journal of Intelligent Systems	2018	8848173
586	Study of long term drift of aluminum oxide thin film capacitive moisture sensor	Kumar S., Islam T., Raina K.K.	Kumar, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, 147004, India; Islam, T., Department of Electrical Engineering, Jamia Millia Islamia (A Central University), New Delhi, 110025, India; Raina, K.K., School of Physics and Material Science, Thapar University, Patiala, 147004, India	IEEE Transactions on Device and Materials Reliability	2018	15304388
587	Comparison of machining characteristics of metal matrix composites using CO2 laser curve cutting process	Sharma V., Kumar V.	Sharma, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Kumar, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2018	9544089
588	Modeling and simulation of driver's anticipation effect in a two lane system on curved road with slope	Kaur R., Sharma S.	Kaur, R., School of Mathematics, Thapar University, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar University, Patiala, 147004, India	Physica A: Statistical Mechanics and its Applications	2018	3784371
589	MVO-based 2-d path planning scheme for providing quality of service in UAV environment	Kumar P., Garg S., Singh A., Batra S., Kumar N., You I.	Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Garg, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; You, I., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea	IEEE Internet of Things Journal	2018	23274662
590	SDN-Enabled Multi-Attribute-Based Secure Communication for Smart Grid in IIoT Environment	Chaudhary R., Aujla G.S., Garg S., Kumar N., Rodrigues J.J.P.C.	Chaudhary, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aujla, G.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG 37540-000, Brazil, Instituto de Telecomunicacoes, Lisboa, 1049-001, Portugal, ITMO University, Saint Petersburg, 197101, Russian Federation, University of Fortaleza, Fortaleza, CE 60811-905, Brazil, National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG 37540-000, Brazil	IEEE Transactions on Industrial Informatics	2018	15513203
591	Respiratory Health of School Children in Relation to Their Body Mass Index (BMI) During Crop Residue Burning Events in North Western India	Gupta S., Mittal S.K., Agarwal R.	Gupta, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India	Mapan - Journal of Metrology Society of India	2018	9703950
592	Improving quality of software product line by analysing inconsistencies in feature models using an ontological rule-based approach	Bhushan M., Goel S., Kumar A.	Bhushan, M., CSED, Thapar University, Patiala, Punjab, India; Goel, S., Department of Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, U.P., India; Kumar, A., CSED, Thapar University, Patiala, Punjab, India	Expert Systems	2018	2664720
593	Lightweight and privacy-preserving RFID authentication scheme for distributed IoT infrastructure with secure localization services for smart city environment	Gope P., Amin R., Hafizul Islam S.K., Kumar N., Bhalla V.K.	Gope, P., Department of Computer Science, National University of Singapore, Singapore; Amin, R., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab 147004, India; Hafizul Islam, S.K., Department of Computer Science and Engineering, Indian Institute of Information Technology, Kalyani, West Bengal 741235, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab 147004, India; Bhalla, V.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab 147004, India	Future Generation Computer Systems	2018	0167739X
594	A modified DWT-based image steganography technique	Kumar V., Kumar D.	Kumar, V., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Kumar, D., Department of Computer Science and Engineering, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India	Multimedia Tools and Applications	2018	13807501
595	Efficient Privacy-Aware Authentication Scheme for Mobile Cloud Computing Services	He D., Kumar N., Khan M.K., Wang L., Shen J.	He, D., State Key Laboratory of Software Engineering, Computer School, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Khan, M.K., Center of Excellence in Information Assurance, King Saud University, Riyadh, Saudi Arabia; Wang, L., Key Laboratory of Aerospace Information Security and Trusted Computing of Ministry of Education, Computer School, Wuhan University, Wuhan, China; Shen, J., School of Computer and Software, Nanjing University of Information Science and Technology, Nanjing, China	IEEE Systems Journal	2018	19328184

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
596	A general compiler for password-authenticated group key exchange protocol in the standard model	Wei F., Kumar N., He D., Yeo S.-S.	Wei, F., State Key Laboratory of Mathematical Engineering and Advanced Computing, Zhengzhou, China, State Key Laboratory of Cryptology, Beijing, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, China; Yeo, S.-S., Division of Convergence Computer and Media, Mokwon University, Daejeon, 302-729, South Korea	Discrete Applied Mathematics	2018	0166218X
597	A novel (R, S)-norm entropy measure of intuitionistic fuzzy sets and its applications in multi-attribute decision-Making	Garg H., Kaur J.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Mathematics	2018	22277390
598	Bayesian regularized neural network decision tree ensemble model for genomic data classification	Garg D., Mishra A.	Garg, D., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India	Applied Artificial Intelligence	2018	8839514
599	Sustainable energy planning decision using the intuitionistic fuzzy analytic hierarchy process: choosing energy technology in Malaysia: necessary modifications	Al-Qudaimi A., Kumar A.	Al-Qudaimi, A., School of Mathematics, Thapar University, Patiala, India; Kumar, A., School of Mathematics, Thapar University, Patiala, India	International Journal of Sustainable Energy	2018	14786451
600	Corporate social responsibility communication research: State of the art and recent advances	Tomaselli G., Garg L., Gupta V., Xuereb P.A., Buttigieg S.C.	Tomaselli, G., University of Malta, Malta; Garg, L., University of Malta, Malta; Gupta, V., Thapar University, India; Xuereb, P.A., University of Malta, Malta; Buttigieg, S.C., University of Malta, Malta	Advances in Data Communications and Networking for Digital Business Transformation	2018	
601	On the design of secure user authenticated key management scheme for multigateway-based wireless sensor networks using ECC	Sutrala A.K., Das A.K., Kumar N., Reddy A.G., Vasilakos A.V., Rodrigues J.J.P.C.	Sutrala, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Reddy, A.G., Department of Computer & Information Security, Sejong University, Gwnagjin-Gu, Seoul, 05006, South Korea; Vasilakos, A.V., Lab of Networks and Cybersecurity, Innopolis University, Russia, 1, Universitetskaya Str., Innopolis, Russian Federation; Rodrigues, J.J.P.C., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí-MG, Brazil, Instituto de Telecomunicações, Portugal, ITMO University, Saint Petersburg, Russian Federation, University of Fortaleza (UNIFOR), Fortaleza-CE, Brazil	International Journal of Communication Systems	2018	10745351
602	Study and analysis of feature based automatic music genre classification using Gaussian mixture model	Kaur C., Kumar R.	Kaur, C., Electronics and Communication Engineering, Thapar University, Patiala, India; Kumar, R., Electronics and Communication Engineering, Thapar University, Patiala, India	Proceedings of the International Conference on Inventive Computing and Informatics, ICICI 2017	2018	
603	Heavy metal accumulation from coal fly ash by cyanobacterial biofertilizers	Kaur R., Goyal D.	Kaur, R., Department of Chemical Engineering and Biotechnology, Beant College of Engineering and Technology, Gurdaspur, Punjab, India; Goyal, D., Department of Biotechnology, Thapar University, Patiala, Punjab, India	Particulate Science and Technology	2018	2726351
604	Modeling flow properties of fine dry powders using particle morphological properties and its effects on geometry of fly ash evacuation hoppers	Mallick S.S., Rohilla L., Garg V., Setia G.	Mallick, S.S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Rohilla, L., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Garg, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Setia, G., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Particulate Science and Technology	2018	2726351
605	Generalised pythagorean fuzzy geometric interactive aggregation operators using einstein operations and their application to decision making	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	Journal of Experimental and Theoretical Artificial Intelligence	2018	0952813X
606	Performance analysis of effect of vibrations on solar panel conversion efficiency	Manu O., Verma J.K., Kalra P., Singh J., Kaur J., Bhatia H., Singh D., Sidhu E.	Manu, O., Department of Mechanical Engineering, Punjabi University, Patiala, India; Verma, J.K., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kalra, P., Department of Computer Engineering, Punjabi University, Patiala, India; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology University, Patiala, India; Kaur, J., Department of Electrical and Communication Engineering, Punjabi University, Patiala, India; Bhatia, H., Department of Mechanical Engineering, Punjabi University, Patiala, India; Singh, D., Department of Computer Science and Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, India; Sidhu, E., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India	Proceedings of the 2017 International Conference On Smart Technology for Smart Nation, SmartTechCon 2017	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
607	Investigation of plasmonic nature of silver in ZnO matrix	Dohare C., Panday V., Ghosh S.	Dohare, C., School of Physical Sciences, Jawaharlal Nehru University, New Delhi, India; Panday, V., Thapar University, Patiala, Punjab, India; Ghosh, S., School of Physical Sciences, Jawaharlal Nehru University, New Delhi, India	AIP Conference Proceedings	2018	0094243X
608	Silver nanoparticles added PVDF/ZnO nanocomposites: Synthesis and characterization	Singh U., Kumari N., Jha A.K., Chandra K.P., Kolte J., Kulkarni A.R., Prasad K.	Singh, U., Aryabhata Centre for Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, 800001, India; Kumari, N., Aryabhata Centre for Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, 800001, India; Jha, A.K., Aryabhata Centre for Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, 800001, India; University Department of Chemistry, T.M. Bhagalpur University, Bhagalpur, 812007, India; Chandra, K.P., Department of Physics, S.M. College, Bhagalpur, 812001, India; Kolte, J., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kulkarni, A.R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Mumbai, 400076, India; Prasad, K., University Department of Physics, T.M. Bhagalpur University, Bhagalpur, 812007, India	AIP Conference Proceedings	2018	0094243X
609	Electrical conduction in PVDF/ZnO-Ag nanocomposites	Singh U., Jha A.K., Chandra K.P., Kolte J., Kulkarni A.R., Prasad K.	Singh, U., Aryabhata Centre for Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, 800001, India; Jha, A.K., Aryabhata Centre for Nanoscience and Nanotechnology, Aryabhata Knowledge University, Patna, 800001, India; University Department of Chemistry, T.M. Bhagalpur University, Bhagalpur, 812007, India; Chandra, K.P., Department of Physics, S.M. College, Bhagalpur, 812001, India; Kolte, J., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kulkarni, A.R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Mumbai, 400076, India; Prasad, K., University Department of Physics, T.M. Bhagalpur University, Bhagalpur, 812007, India	AIP Conference Proceedings	2018	0094243X
610	On the study of angular velocity in mass asymmetry nuclei	Kaur K., Kumar S.	Kaur, K., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Punjab, 140413, India	AIP Conference Proceedings	2018	0094243X
611	Probing the effect of neutron excess on the dynamics of Hf compound system	Sharma I., Kumar R., Sharma M.K.	Sharma, I., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India	AIP Conference Proceedings	2018	0094243X
612	Role of shell corrections in the phenomenon of cluster radioactivity	Kaur M., Singh B.B., Sharma M.K.	Kaur, M., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Singh, B.B., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Sharma, M.K., SPMS, Thapar University, Patiala, 147004, India	AIP Conference Proceedings	2018	0094243X
613	Dielectric properties of PVDF/0.5(Ba0.7Ca0.3)TiO3-0.5Ba(Zr0.2Ti0.8)O3 composites	Pandey B.K., Chandra K.P., Kolte J., Kulkarni A.R., Jayaswal S.K., Prasad K.	Pandey, B.K., University Department of Physics, T.M. Bhagalpur University, Bhagalpur, 812007, India; Chandra, K.P., Department of Physics, S.M. College, Bhagalpur, 812001, India; Kolte, J., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kulkarni, A.R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Mumbai, 400076, India; Jayaswal, S.K., University Department of Physics, T.M. Bhagalpur University, Bhagalpur, 812007, India; Prasad, K., University Department of Physics, T.M. Bhagalpur University, Bhagalpur, 812007, India	AIP Conference Proceedings	2018	0094243X
614	Study of physical properties of strontium based aluminoborosilicate glasses	Kaur M., Kaur G., Kumar V.	Kaur, M., Shri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147001, India; Kumar, V., Shri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India	AIP Conference Proceedings	2018	0094243X
615	Bioconjugation of luminescent Eu-BDC-NH2 MOFs for highly efficient sensing of BSA	Kukkar P., Sammi H., Rawat M., Singh P., Basu S., Kukkar D.	Kukkar, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Sammi, H., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India; Kukkar, D., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India	AIP Conference Proceedings	2018	0094243X
616	Relative role of different radii in the dynamics of 8B+58Ni reaction	Kaur A., Sandhu K., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Sandhu, K., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India	AIP Conference Proceedings	2018	0094243X
617	On the contribution of symmetry and Coulomb components of nucleon-nucleon potentials in estimation of transition energy	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Punjab, 140413, India	AIP Conference Proceedings	2018	0094243X
618	Catalytic Selective Hydrogenation and Cross Coupling Reaction Using Polyvinylpyrrolidone-Capped Nickel Nanoparticles	Bathla A., Pal B.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	ChemistrySelect	2018	23656549

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
619	Secure key establishment in wireless sensor networks	Bala S., Sharma G., Verma A.K.	Bala, S., Thapar University, India; Sharma, G., Thapar University, India; Verma, A.K., Thapar University, India	Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications	2018	
620	Effect of time dependent morphological parameters of nanoclusters on perikinetic heat conduction and induced micro-convection mechanisms of oxide based nanofluids	Kundan L., Mallick S.S.	Kundan, L., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Mallick, S.S., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India	Experimental Heat Transfer	2018	8916152
621	Dynamics of Db isotopes formed in reactions induced by U 238, Cm 248, and Bk 249 across the Coulomb barrier	Kaur G., Sandhu K., Kaur A., Sharma M.K.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sandhu, K., Department of Physics, GSSDGS Khalsa College, Patiala, 147001, India; Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physical Review C	2018	24699985
622	Efficient image encryption method based on improved Lorenz chaotic system	Kaur M., Kumar V.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electronics Letters	2018	135194
623	Size-dependent studies in ferromagnetic nanoparticles dispersed ferroelectric liquid crystal mixtures	Khushboo, Sharma P., Malik P., Raina K.K.	Khushboo, Material Research Laboratory, School of Physics and Material Science, Thapar University Patiala, Patiala, India; Sharma, P., Material Research Laboratory, School of Physics and Material Science, Thapar University Patiala, Patiala, India; Malik, P., Liquid Crystal Lab, Department of Physics, DR B R Ambedkar National Institute of Technology, Jalandhar, India; Raina, K.K., Dehradun Institute of Technology University, Dehradun, India	Liquid Crystals	2018	2678292
624	Bearing fault diagnosis using TQWT based Entropy features	Dovedi T., Upadhyay R.	Dovedi, T., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Patiala, Punjab, India; Upadhyay, R., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Patiala, Punjab, India	2018 3rd IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2018 - Proceedings	2018	
625	A robust and efficient bilinear pairing based mutual authentication and session key verification over insecure communication	Amin R., Hafizul Islam S.K., Vijayakumar P., Khan M.K., Chang V.	Amin, R., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Hafizul Islam, S.K., Department of Computer Science and Engineering, Indian Institute of Information Technology Kalyani, Kalyani, WB 741235, India; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering, Melpakkam, Tindivanam, TN 604001, India; Khan, M.K., Center of Excellence in Information Assurance, King Saud University, Riyadh, Saudi Arabia; Chang, V., Information Management and Information Systems, International Business School Suzhou (IBSS), Xi'an Jiaotong Liverpool University, Suzhou Shi, Jiangsu, United Kingdom	Multimedia Tools and Applications	2018	13807501
626	Investigation of 2x2 optical cross connect with different mach-zehnder interferometer techniques for optical networks	Dewra S., Kaler R.S.	Dewra, S., Department of Electronics and Communication Engineering, Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab 152004, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, 147001, India	Optoelectronics and Advanced Materials, Rapid Communications	2018	18426573
627	Investigations on environmental emissions characteristics of CI engine fuelled with castor biodiesel blends	Mahla S.K., Dhir A., Singla V., Rosha P.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146 001, India; Dhir, A., School of Energy and Environment, Thapar University, Patiala, 147 004, India; Singla, V., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146 001, India; Rosha, P., School of Energy and Environment, Thapar University, Patiala, 147 004, India	Journal of Environmental Biology	2018	2548704
628	UAV-Empowered Edge Computing Environment for Cyber-Threat Detection in Smart Vehicles	Garg S., Singh A., Batra S., Kumar N., Yang L.T.	Garg, S., Thapar University, India; Singh, A., Thapar University, India; Batra, S., Thapar University, India; Kumar, N., Thapar University, India; Yang, L.T., St. Francis Xavier University, Canada	IEEE Network	2018	8908044
629	Effect of molecular weight of polyethylene glycol on the rheological properties of fumed silica-polyethylene glycol shear thickening fluid	Singh M., Verma S.K., Biswas I., Mehta R.	Singh, M., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Punjab Patiala, 147004, India; Verma, S.K., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Biswas, I., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Mehta, R., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Punjab Patiala, 147004, India	Materials Research Express	2018	20531591
630	Spontaneous fission of the end product in α -decay chain of recoiled superheavy nucleus: A theoretical study	Kaur A., Sawhney G., Sharma M.K., Gupta R.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sawhney, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, R.K., Department of Physics, Panjab University, Chandigarh, 160014, India	International Journal of Modern Physics E	2018	2183013

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
631	Higher-order modification of Steffensen's method for solving system of nonlinear equations	Bhalla S., Kumar S., Argyros I.K., Behl R., Motsa S.S.	Bhalla, S., School of Mathematics, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India; Argyros, I.K., Department of Mathematics Sciences, Cameron University, Lawton, OK 73505, United States; Behl, R., School of Mathematics, Statistics and Computer Sciences, University of KwaZulu-Natal, Private Bag X01, Scottsville, Pietermaritzburg, 3209, South Africa; Motsa, S.S., School of Mathematics, Statistics and Computer Sciences, University of KwaZulu-Natal, Private Bag X01, Scottsville, Pietermaritzburg, 3209, South Africa	Computational and Applied Mathematics	2018	22383603
632	Enhanced sensitivity with thickness optimization of ZnO based acetone sensor	Deshwal M., Arora A.	Deshwal, M., Electronics and Communication Engineering Department, Thapar University Patiala147 004, India; Arora, A., Electronics and Communication Engineering Department, Thapar University Patiala147 004, India	Indian Journal of Pure and Applied Physics	2018	195596
633	XPF polymorphism toward lung cancer susceptibility and survival in patients treated with platinum-based chemotherapy	Lawania S., Sharma S., Singh N., Behera D.	Lawania, S., Department of Biotechnology, Thapar University, Punjab, 147002, India; Sharma, S., Department of Biotechnology, Thapar University, Punjab, 147002, India; Singh, N., Department of Pulmonary Medicine, Postgraduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Postgraduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India	Future Oncology	2018	14796694
634	Draft genome sequence of a fungus (<i>Fusarium tricinctum</i>) cultured from a monoisolate native to the Himalayas	Meena N., Vasundhara M., Reddy M.S., Suravajhala P., Raghavender U.S., Medicherla K.M.	Meena, N., Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Jaipur, Rajasthan, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Suravajhala, P., Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Jaipur, Rajasthan, India; Raghavender, U.S., Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Jaipur, Rajasthan, India; Medicherla, K.M., Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Jaipur, Rajasthan, India	Genome Announcements	2018	21698287
635	Class-AB level shifted flipped voltage follower cell using bulk-driven technique	Jindal C., Pandey R.	Jindal, C., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	IET Circuits, Devices and Systems	2018	1751858X
636	An approach for analyzing the reliability and profit of an industrial system based on the cost free warranty policy	Niwas R., Garg H.	Niwas, R., Department of Statistics, GGSDS College, Chandigarh, Punjab, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	16785878
637	Role of sequence variations in AhR gene towards modulating smoking induced lung cancer susceptibility in North Indian population: A multiple interaction analysis	Budhwar S., Bahl C., Sharma S., Singh N., Behera D.	Budhwar, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Bahl, C., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India	Current Genomics	2018	13892029
638	Teaching graphical simulations of Fourier series expansion of some periodic waves using spreadsheets	Singh I., Kaur B.	Singh, I., P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; Kaur, B., School of Mathematics, Thapar University, Patiala, 147004, India	Physics Education	2018	319120
639	Algorithms for interval-valued fuzzy soft sets in emergency decision making based on WDBA and CODAS with new information measure	Peng X., Garg H.	Peng, X., School of Information Science and Engineering, Shaoguan University, Shaoguan, 512005, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, 147004, India	Computers and Industrial Engineering	2018	3608352
640	Fructose modified synthesis of ZnO nanoparticles and its application for removal of industrial pollutants from water	Singh G., Singh J., Jolly S.S., Rawat R., Kukkar D., Kumar S., Basu S., Rawat M.	Singh, G., Department of Electronics & Communication Engineering, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Singh, J., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Jolly, S.S., Department of Mechanical Engineering, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Rawat, R., Department of Mechanical Engineering, National Institute of Technology, Kurukshetra, 136119, India; Kukkar, D., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Basu, S., Department of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India	Journal of Materials Science: Materials in Electronics	2018	9574522
641	Optimization of Reactive Dividing-Wall Distillation Column for Ethyl t-Butyl Ether Synthesis	Kaur J., Sangal V.K.	Kaur, J., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Bhadson Road, Patiala, Punjab 147004, India; Sangal, V.K., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Bhadson Road, Patiala, Punjab 147004, India	Chemical Engineering and Technology	2018	9307516

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
642	A parallel computational approach for similarity search using Bloom filters	Chauhan S.S., Batra S.	Chauhan, S.S., Computer Science and Engineering Department, Research Lab, Thapar University, Patiala, India; Batra, S., Computer Science and Engineering Department, Thapar University, Patiala, India	Computational Intelligence	2018	8247935
643	On the study of rotational effects in mass asymmetric colliding nuclei at intermediate energies	Kaur K., Kumar S.	Kaur, K., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Mohali, Punjab, India	Nuclear Physics A	2018	3759474
644	Automated classification of non-motor mental task in electroencephalogram based brain-computer interface using multivariate autoregressive model in the intrinsic mode function domain	Dutta S., Singh M., Kumar A.	Dutta, S., Department of Electrical and Instrumentation Engineering, Thapar University Punjab, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar University Punjab, India; Kumar, A., Central Scientific Instruments Organization Chandigarh, India	Biomedical Signal Processing and Control	2018	17468094
645	Role of oxygen vacancies in Ag/Au doped CeO ₂ nanoparticles for fast photocatalysis	Mittal M., Gupta A., Pandey O.P.	Mittal, M., Functional Materials Lab, School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Solar Energy	2018	0038092X
646	Improved Particle Swarm Optimization Based Adaptive Neuro-Fuzzy Inference System for Benzene Detection	Pannu H.S., Singh D., Malhi A.K.	Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, D., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malhi, A.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Clean - Soil, Air, Water	2018	18630650
647	Novel scaled prioritized intuitionistic fuzzy soft interaction averaging aggregation operators and their application to multi criteria decision making	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India; Arora, R., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India	Engineering Applications of Artificial Intelligence	2018	9521976
648	Multiobjective thermal power load dispatch using adaptive predator-prey optimization	Singh N.J., Dhillon J.S., Kothari D.P.	Singh, N.J., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur), Punjab 148106, India; Kothari, D.P., Gaikwad-Patil Group of Institutions, Wardha Road, Nagpur, 441108, India	Applied Soft Computing Journal	2018	15684946
649	Origin of enhanced piezoelectric properties and room temperature multiferroism in MnO ₂ added 0.90(Li _{0.12} Na _{0.88} NbO ₃)-0.10BaTiO ₃ ceramic	Mitra S., Karthik T., Kolte J., Ade R., Venkataramani N., Kulkarni A.R.	Mitra, S., Department of Physics, Banasthali Vidyapith, Banasthali-304022Rajasthan, India; Karthik, T., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Ade, R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Venkataramani, N., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India; Kulkarni, A.R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharashtra 400 076, India	Scripta Materialia	2018	13596462
650	Stability and phase space analysis of fluidized-dense phase pneumatic transport system	Kaur B., Mittal A., Jana S., Mallick S.S., Wypych P.	Kaur, B., The Wolfson Centre for Bulk Solids Handling Technology, University of Greenwich, Central Avenue, Chatham Maritime, Kent, ME4 4TB, United Kingdom, School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Mittal, A., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Jana, S., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Mallick, S.S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Wypych, P., Faculty of Engineering and Information Sciences, University of Wollongong NSW 2522, Australia	Powder Technology	2018	325910
651	An experimental investigation on the effect of particle size into the flowability of fly ash	Rohilla L., Garg V., Mallick S.S., Setia G.	Rohilla, L., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Garg, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Mallick, S.S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Setia, G., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India	Powder Technology	2018	325910
652	Development of full-field optical spatial coherence tomography system for automated identification of malaria using the multilevel ensemble classifier	Singla N., Srivastava V., Mehta D.S.	Singla, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mehta, D.S., Department of Physics, Indian Institute of Technology Delhi, New Delhi, India	Journal of Biophotonics	2018	1864063X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
653	Assessment of integrated binary process by coupling photocatalysis and photo-Fenton for the removal of cephalixin from aqueous solution	Bansal P., Verma A., Mehta C., Singla J., Toor A.P.	Bansal, P., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Mehta, C., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Singla, J., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Toor, A.P., University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India	Journal of Materials Science	2018	222461
654	Adsorption of CO ₂ on KOH activated, N-enriched carbon derived from urea formaldehyde resin: kinetics, isotherm and thermodynamic studies	Tiwari D., Bhunia H., Bajpai P.K.	Tiwari, D., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Surface Science	2018	1694332
655	Antimicrobial and bioactive phosphate-free glass-ceramics for bone tissue engineering applications	Jha P., Danewalia S.S., Sharma G., Singh K.	Jha, P., State Forensics Science Laboratory, Sagar, Madhya Pradesh 470001, India; Danewalia, S.S., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Sharma, G., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Singh, K., School of Physics & Materials Science, Thapar University, Patiala, 147004, India	Materials Science and Engineering C	2018	9284931
656	TOPSIS method based on the connection number of set pair analysis under interval-valued intuitionistic fuzzy set environment	Kumar K., Garg H.	Kumar, K., School of Mathematics, Thapar University, Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	Computational and Applied Mathematics	2018	22383603
657	Bloom filter based optimization scheme for massive data handling in IoT environment	Singh A., Garg S., Batra S., Kumar N., Rodrigues J.J.P.C.	Singh, A., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala (Punjab), India; Garg, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala (Punjab), India; Batra, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala (Punjab), India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala (Punjab), India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Brazil, Instituto de Telecomunicações, Portugal, ITMO University, Russian Federation, University of Fortaleza (UNIFOR), Brazil	Future Generation Computer Systems	2018	0167739X
658	Fuel properties and emission characteristics of biodiesel produced from unused algae grown in India	Karmakar R., Kundu K., Rajor A.	Karmakar, R., School of Energy and Environment, Thapar University, Patiala, Punjab 147004, India; Kundu, K., Department of Biofuel, CSIR CMERI CoEFM, Ludhiana, Punjab 141006, India; Rajor, A., School of Energy and Environment, Thapar University, Patiala, Punjab 147004, India	Petroleum Science	2018	16725107
659	Secure message communication protocol among vehicles in smart city	Dua A., Kumar N., Das A.K., Susilo W.	Dua, A., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, 333 031, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Susilo, W., School of Computing and Information Technology, University of Wollongong, Wollongong, NSW 2500, Australia	IEEE Transactions on Vehicular Technology	2018	189545
660	Data deduplication techniques for efficient cloud storage management: a systematic review	Kaur R., Chana I., Bhattacharya J.	Kaur, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Bhadson Road, Patiala, 147004, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Bhadson Road, Patiala, 147004, India; Bhattacharya, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Bhadson Road, Patiala, 147004, India	Journal of Supercomputing	2018	9208542
661	Underwater pipelines panoramic image transmission and refinement using acoustic sensors	Jindal H., Kasana S.S., Saxena S.	Jindal, H., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Saxena, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	International Journal of Wavelets, Multiresolution and Information Processing	2018	2196913
662	Evaluation of Biodegradability of Potato Peel Powder Based Polyolefin Biocomposites	Sugumaran V., Bhunia H., Narula A.K.	Sugumaran, V., University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, New Delhi, 110078, India, Research & Development Centre, Indian Oil Corporation Limited, Sector 13, Faridabad, Haryana 121007, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Narula, A.K., University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, New Delhi, 110078, India	Journal of Polymers and the Environment	2018	15662543
663	Slantlet based hybrid watermarking technique for medical images	Bamal R., Kasana S.S.	Bamal, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	Multimedia Tools and Applications	2018	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
664	Three-tier neural model for service provisioning over collaborative flying ad hoc networks	Sharma V., Kumar R.	Sharma, V., Research Lab, Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Neural Computing and Applications	2018	9410643
665	Microwave melting and processing of metal–ceramic composite castings	Singh S., Gupta D., Jain V.	Singh, S., Mechanical Engineering Department, Thapar University, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar University, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar University, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2018	9544054
666	Active noise control using Modified FsLMS and Hybrid PSOFF algorithm	Walia R., Ghosh S.	Walia, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Applied Sciences (Switzerland)	2018	20763417
667	Adsorption removal of malachite green dye from aqueous solution	Tewari K., Singhal G., Arya R.K.	Tewari, K., Department of Chemical Engineering, Jaypee University of Engineering and Technology, Guna, A. B. Road, Raghogarh, Guna M. P., 473226, India; Singhal, G., Department of Chemical Engineering, Jaypee University of Engineering and Technology, Guna, A. B. Road, Raghogarh, Guna M. P., 473226, India; Arya, R.K., Department of Chemical Engineering, Thapar University, Patiala, Patiala, Punjab, 147004, India	Reviews in Chemical Engineering	2018	1678299
668	CO2 adsorption on oxygen enriched porous carbon monoliths: Kinetics, isotherm and thermodynamic studies	Singh J., Bhunia H., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Bhunia, H., Chemical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India	Journal of Industrial and Engineering Chemistry	2018	1226086X
669	Application of recycled ceramic aggregates for the production of Mineral-Asphalt Mixtures	Andrzejuk W., Barnat-Hunek D., Siddique R., Zegardlo B., Lagód G.	Andrzejuk, W., Faculty of Economic and Technical Science, Pope John Paul II State School of Higher Education in Biala, Podlaska, Sidorska Str. 95/97, Biala Podlaska, 21-500, Poland; Barnat-Hunek, D., Faculty of Civil Engineering and Architecture, Lublin University of Technology, Nadbystrzycka Str. 40, Lublin, 20-618, Poland; Siddique, R., Department of Civil Engineering, Thapar University, Patiala, Punjab, 147004, India; Zegardlo, B., Faculty of Natural Sciences, Siedlce University of Natural Sciences and Humanities, 14 B. Prusa Str., Siedlce, 08-100, Poland; Lagód, G., Faculty of Environmental Engineering, Lublin University of Technology, 40B Nadbystrzycka Str., Lublin, 20-618, Poland	Materials	2018	19961944
670	Surface modification of SS-316L steel using microwave processed Ni/WC based composite clads	Kaushal S., Singh D., Gupta D., Jain V., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Thapar University, Patiala, India; Singh, D., Mechanical Engineering Department, Thapar University, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar University, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar University, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar University, Patiala, India	AIP Conference Proceedings	2018	0094243X
671	Prediction of drug synergy in cancer using ensemble-based machine learning techniques	Singh H., Rana P.S., Singh U.	Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, U., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters B	2018	2179849
672	Crystal structure and electronic properties of Sr-substituted barium disilicide Ba1-xSrxSi2 for solar cells: Computational and experimental studies	Imai M., Kumar M., Matsushita Y., Umezawa N.	Imai, M., Research Center for Functional Materials, National Institute for Materials Science Ibaraki 305-0047, Japan; Kumar, M., International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan, School of Physics and Materials Sciences, Thapar University, Patiala, Punjab 147004, India; Matsushita, Y., Research Network and Facility Services Division, National Institute for Materials Science Ibaraki 305-0047, Japan; Umezawa, N., International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan	Acta Materialia	2018	13596454
673	A comparative study to evaluate the corrosion performance of Zr incorporated Cr3C2-(NiCr) coating at 900 °C	Ahuja L., Mudgal D., Singh S., Prakash S.	Ahuja, L., Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab, India; Mudgal, D., Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, India, Department of Mechanical Engineering, Thapar University Patiala Punjab, India; Singh, S., Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, India; Prakash, S., Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, India	Ceramics International	2018	2728842
674	Corrigendum to “Feasibility of using combined TiO2 photocatalysis and RBC process for the treatment of real pharmaceutical wastewater” [J. Photochem. Photobiol. A: Chem. 353 (February) (2018) 263–270] (S1010603017313333) (10.1016/j.jphotochem.2017.11.013)	Talwar S., Sangal V.K., Verma A.	Talwar, S., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India	Journal of Photochemistry and Photobiology A: Chemistry	2018	10106030

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
675	UWDBCSN analysis during node replication attack in WSN	Kaur H., Saxena S.	Kaur, H., Thapar University, India; Saxena, S., Department of Computer Science, Thapar University, India	Handbook of Research on Information Security in Biomedical Signal Processing	2018	
676	Design of an Anonymity-Preserving Group Formation Based Authentication Protocol in Global Mobility Networks	Banerjee S., Odelu V., Das A.K., Chattopadhyay S., Kumar N., Park Y., Tanwar S.	Banerjee, S., Department of Information Technology, Jadavpur University, Kolkata, 700 098, India; Odelu, V., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Chattopadhyay, S., Department of Information Technology, Jadavpur University, Kolkata, 700 098, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Park, Y., School of Electronics Engineering, Kyungpook National University, Daegu, 41566, South Korea; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382 481, India	IEEE Access	2018	21693536
677	Evolution of zirconyl-stearate Langmuir monolayers and the synthesized ZrO ₂ thin films with pH	Choudhary R., Sharma R., Brar L.K.	Choudhary, R., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, R., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	AIP Conference Proceedings	2018	0094243X
678	Artificial intelligence based intrusion detection system to detect flooding attack in VANETS	Aneja M.J.S., Bhatia T., Sharma G., Shrivastava G.	Aneja, M.J.S., Thapar University, Patiala, India; Bhatia, T., Department of Computer Science and Engineering, Thapar University, Patiala, India; Sharma, G., Université libre de Bruxelles, Belgium; Shrivastava, G., Department of Computer Science and Engineering, National Institute of Technology Patna (Institute of National Importance), India	Handbook of Research on Network Forensics and Analysis Techniques	2018	
679	Corrosion performance of Cr ₃ C ₂ -NiCr+0.2%Zr coated super alloys under actual medical waste incinerator environment	Ahuja L., Mudgal D., Singh S., Prakash S.	Ahuja, L., Department of Mechanical Engineering, SUET, Longwol, Sangrur, 148106, India; Mudgal, D., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Singh, S., Department of Metallurgical and Materials Engineering, IIT Roorkee247667, India; Prakash, S., Department of Metallurgical and Materials Engineering, IIT Roorkee247667, India	IOP Conference Series: Materials Science and Engineering	2018	17578981
680	Developing Platform Ecosystem for Resource Mobilization: The Case of Social Enterprises in India	Hota P.K., Villari B.C., Subramanian B.	Hota, P.K., Department of Strategy and Entrepreneurship, LM Thapar School of Management, Chandigarh, Punjab, India, Department of Strategic Management, I.I.M Kozhikode, Kozhikode, Kerala, India; Villari, B.C., Department of Information Technology & Systems, I.I.M Kozhikode, Kozhikode, Kerala, India; Subramanian, B., Department of Organization Behaviour and Human Resource Management, Thiagarajar School of Management, Madurai, Tamilnadu, India, Department of Organization Behaviour and Human Resource Management, I.I.M Kozhikode, Kozhikode, Kerala, India	Journal of Information Technology Case and Application Research	2018	15228053
681	Comprehensive review of continuous and discrete orthogonal moments in biometrics	Kaur P., Pannu H.S.	Kaur, P., Computer Science and Engineering Department, Thapar University, Patiala, India; Pannu, H.S., Computer Science and Engineering Department, Thapar University, Patiala, India	International Journal of Computer Mathematics: Computer Systems Theory	2018	23799927
682	Efficient disparity estimation from stereo images using hybrid-guided image filter	Jain K., Pannu H.S., Singh K., Malhi A.	Jain, K., Central Research Laboratory, Bharat Electronics limited, Ghaziabad, UP, India; Pannu, H.S., Computer Science and Engineering, Thapar University Patiala, India; Singh, K., Central Research Laboratory, Bharat Electronics limited, Ghaziabad, UP, India; Malhi, A., Computer Science and Engineering, Thapar University Patiala, India	Imaging Science Journal	2018	13682199
683	Causal dynamics of CO ₂ source emissions and population in India using Bayesian approach	Babbar S., Babbar R.	Babbar, S., School of Engineering, GD Goenka University, Gurgaon, Haryana, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Modeling Earth Systems and Environment	2018	23636203
684	Bioaccessible selenium sourced from Se-rich mustard cake facilitates protection from TBHP induced cytotoxicity in melanoma cells	Jaiswal S.K., Prakash R., Prabhu K.S., Tejo Prakash N.	Jaiswal, S.K., School of Energy and Environment, Thapar University, Patiala, India; Prakash, R., School of Chemistry and Biochemistry, Thapar University, Patiala, India; Prabhu, K.S., Department of Veterinary and Biomedical Sciences, Center for Molecular Toxicology and Carcinogenesis, Center for Molecular Immunology and Infectious Disease, Penn State Cancer Institute, 115 Henning Building, Pennsylvania State University, University Park, PA 16802, United States; Tejo Prakash, N., School of Energy and Environment, Thapar University, Patiala, India	Food and Function	2018	20426496
685	Symmetric Fuzzy Logic and IBFOA Solutions for Optimal Position and Rating of Capacitors Allocated to Radial Distribution Networks	Kishore C., Ghosh S., Karar V.	Kishore, C., Department of Electrical and Electronics Engineering, Northern India Engineering College, FC-26, Shastri Park, Delhi, New Delhi, 110053, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Karar, V., Optical Devices and Systems, CSIR-Central Scientific Instruments Organisation, Sector 30-C, Chandigarh, 160030, India	Energies	2018	19961073
686	Automated in vivo identification of fungal infection on human scalp using optical coherence tomography and machine learning	Dubey K., Srivastava V., Mehta D.S.	Dubey, K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Mehta, D.S., Department of Physics, Indian Institute of Technology Delhi, New Delhi, India	Laser Physics	2018	1054660X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
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688	A Modified Method for Generation of Communication Sets	Bhardwaj R., Upadhyay A.	Bhardwaj, R., Computer Science Engineering Department, Thapar University, Patiala, India; Upadhyay, A., Computer Science Engineering Department, Thapar University, Patiala, India	National Academy Science Letters	2018	0250541X
689	Steady-state dynamics of an inhomogeneous two-channel TASEP with Langmuir kinetics	Dhiman I., Gupta A.K.	Dhiman, I., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, A.K., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India	International Journal of Modern Physics C	2018	1291831
690	Analysis of an industrial system under uncertain environment by using different types of fuzzy numbers	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India	International Journal of System Assurance Engineering and Management	2018	9756809
691	LSCSH: Lattice-Based Secure Cryptosystem for Smart Healthcare in Smart Cities Environment	Chaudhary R., Jindal A., Aujla G.S., Kumar N., Das A.K., Saxena N.	Chaudhary, R., Thapar Institute of Engineering and Technology, United States; Jindal, A., Thapar Institute of Engineering and Technology, United States; Aujla, G.S., Thapar Institute of Engineering and Technology, United States, Chandigarh University, India; Kumar, N., Thapar Institute of Engineering and Technology, United States; Das, A.K., International Institute of Information Technology, India; Saxena, N., Bournemouth University, India	IEEE Communications Magazine	2018	1636804
692	Remediation of heavy metal ions using hierarchically porous carbon monolith synthesized via nanocasting method	Sharma M., Singh J., Hazra S., Basu S.	Sharma, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Hazra, S., Saha Institute of Nuclear Physics, Kolkata, 700064, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Journal of Environmental Chemical Engineering	2018	22133437
693	Secure and efficient context-aware localization of drones in urban scenarios	Sharma V., Jayakody D.N.K., You I., Kumar R., Li J.	Sharma, V., Soonchunhyang University, South Korea; Jayakody, D.N.K., National Research Tomsk Polytechnic University, Russian Federation; You, I., Soonchunhyang University, South Korea; Kumar, R., Thapar University, India; Li, J., Nanjing University of Science and Technology, China	IEEE Communications Magazine	2018	1636804
694	Doping of magnetite nanoparticles facilitates clean harvesting of diatom oil as biofuel for sustainable energy	Kumar V., Singh R., Thakur S., Joshi K.B., Vinayak V.	Kumar, V., School of Chemical Science and Technology, Department of Chemistry, Dr Harisingh Gour Central University, Sagar-MP, India; Singh, R., School of Chemical Science and Technology, Department of Chemistry, Dr Harisingh Gour Central University, Sagar-MP, India; Thakur, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Joshi, K.B., School of Chemical Science and Technology, Department of Chemistry, Dr Harisingh Gour Central University, Sagar-MP, India; Vinayak, V., School of Applied Sciences, Diatom Nanoengineering and Metabolism Lab (DNM), Dr Harisingh Gour Central University, Sagar-MP, India	Materials Research Express	2018	20531591
695	A novel defense scheme against flooding attack in mobile adhoc networks	Bhatia T., Verma A.K., Sharma G., Bala S.	Bhatia, T., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Sharma, G., Département d'Informatique, Université Libre de Bruxelles, Bruxelles, Belgium; Bala, S., Orange Labs, Meylan, France	Recent Patents on Engineering	2018	18722121
696	Studies on Slurry Erosion Behavior of HVOF Applied Y2O3-Added WC-10Co-4Cr Cermet on 13-4 Martensitic Stainless Steel	Nath G., Kumar S.	Nath, G., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Kumar, S., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India	Metallography, Microstructure, and Analysis	2018	21929262
697	A public platform for developing language-independent applications	Agarwal V., Kumar P.	Agarwal, V., Thapar University, CSED, India; Kumar, P., Thapar University, CSED, India	Digital Scholarship in the Humanities	2018	20557671
698	Atomic-level finishing of aluminum alloy by chemo-mechanical magnetorheological finishing (CMMRF) for optical applications	Ghai V., Ranjan P., Batish A., Singh H.	Ghai, V., Department of Mechanical Engineering, Indian Institute of Technology, Ropar Nangal Road, Rupnagar, Punjab 140001, India; Ranjan, P., Precision Engineering Division, Bhabha Atomic Research Centre, Anushaktinagar, Mumbai, 400085, India; Batish, A., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology, Ropar Nangal Road, Rupnagar, Punjab 140001, India	Journal of Manufacturing Processes	2018	15266125
699	Multi-objective optimization of process parameters involved in micro-finishing of Al/SiC MMCs by abrasive flow machining process	Sushil M., Vinod K., Harmesh K.	Sushil, M., Department of Mechanical Engineering, Thapar University, Patiala, India; Vinod, K., Department of Mechanical Engineering, Thapar University, Patiala, India; Harmesh, K., Department of Mechanical Engineering, UIET Chandigarh, Chandigarh, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
700	Decay of Plutonium isotopes via spontaneous and heavy-ion induced fission paths	Sharma K., Sawhney G., Sharma M.K., Gupta R.K.	Sharma, K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sawhney, G., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Gupta, R.K., Department of Physics, Panjab University, Chandigarh, India	Nuclear Physics A	2018	3759474
701	Effect of nanoclay and bolt preloads on the strength of bolted joints in glass epoxy nanocomposites	Chani K.S., Saini J.S., Bhunia H.	Chani, K.S., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Saini, J.S., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Bhunia, H., Chemical Engineering Department, Thapar University, Patiala, Punjab 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	16785878
702	Towards energy-aware fog-enabled cloud of things for healthcare	Mahmoud M.M.E., Rodrigues J.J.P.C., Saleem K., Al-Muhtadi J., Kumar N., Korotaev V.	Mahmoud, M.M.E., Faculty of Computer Science & Information Technology, University of Kassala, Kassala, Sudan, College of Graduate Studies, Department of Computer Science, Sudan University of Science and Technology (SUST), Sudan; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil, Instituto de Telecomunicações, Portugal, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil, ITMO University, St. Petersburg, Russian Federation, College of Computer and Information Sciences (CCIS), King Saud University, Riyadh, Saudi Arabia; Saleem, K., Center of Excellence in Information Assurance (CoEIA), King Saud University, Riyadh, 11653, Saudi Arabia; Al-Muhtadi, J., Center of Excellence in Information Assurance (CoEIA), King Saud University, Riyadh, 11653, Saudi Arabia, College of Computer and Information Sciences (CCIS), King Saud University, Riyadh, Saudi Arabia; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Korotaev, V., ITMO University, St. Petersburg, Russian Federation	Computers and Electrical Engineering	2018	457906
703	Synthesis of highly stable and efficient Ag loaded GO/TiO2 nanotube electrodes for the photoelectrocatalytic degradation of pentachlorophenol	Rajput H., Sangal V.K., Dhir A.	Rajput, H., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Electroanalytical Chemistry	2018	15726657
704	Non-interactive approach to solve multi-objective thermal power dispatch problem using composite search algorithm	Singh N.J., Dhillon J.S., Kothari D.P.	Singh, N.J., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab 148106, India; Kothari, D.P., Gaikwad-Patil Group of Institutions, Wardha Road, Nagpur, 441 108, India	Applied Soft Computing Journal	2018	15684946
705	Laplace Transform Treatment for Chemical Engineering Systems: Whether to Use 0- or 0+?	Ahuja S., Arya R.K.	Ahuja, S., Thapar Institute of Engineering & Technology, Department of Chemical Engineering, P.O. Box 32, Bhadson Road, Patiala, Punjab, 147004, India; Arya, R.K., Thapar Institute of Engineering & Technology, Department of Chemical Engineering, P.O. Box 32, Bhadson Road, Patiala, Punjab, 147004, India	Chemical Engineering and Technology	2018	9307516
706	Profit based unit commitment using hybrid optimization technique	Anand H., Narang N., Dhillon J.S.	Anand, H., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, Sant Longowal Institute of Engineering and Technology Longowal-, Sangrur, Punjab 148106, India	Energy	2018	3605442
707	Machine learning techniques for medical diagnosis of diabetes using iris images	Samant P., Agarwal R.	Samant, P., Thapar University, Patiala, India; Agarwal, R., Thapar University, Patiala, India	Computer Methods and Programs in Biomedicine	2018	1692607
708	Concentrating and Nonconcentrating Slurry and Fixed-Bed Solar Reactors for the Degradation of Herbicide Isoproturon	Verma A., Tejo Prakash N., Toor A.P., Bansal P., Sangal V.K., Kumar A.	Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tejo Prakash, N., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Toor, A.P., University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Bansal, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sangal, V.K., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, A., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Solar Energy Engineering, Transactions of the ASME	2018	1996231
709	Studies on biogas-fuelled compression ignition engine under dual fuel mode	Mahla S.K., Singla V., Sandhu S.S., Dhir A.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146001, India; Singla, V., Adesh Institute of Engineering and Technology, Faridkot, 151203, India; Sandhu, S.S., Department of Mechanical Engineering, National Institute of Technology, Jalandhar, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Environmental Science and Pollution Research	2018	9441344
710	Image-adaptive watermarking using maximum likelihood decoder for medical images	Bhinder P., Singh K., Jindal N.	Bhinder, P., Thapar University, Patiala, Punjab, India, Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, India; Singh, K., Thapar University, Patiala, Punjab, India; Jindal, N., Thapar University, Patiala, Punjab, India	Multimedia Tools and Applications	2018	13807501
711	A fuzzy-based trust model for flying ad hoc networks (FANETS)	Singh K., Verma A.K.	Singh, K., Wireless Network and Mobile Computing Group, CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Verma, A.K., Wireless Network and Mobile Computing Group, CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India	International Journal of Communication Systems	2018	10745351

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
712	Some methods for strategic decision-making problems with immediate probabilities in Pythagorean fuzzy environment	Garg H.	Garg, H., School of Mathematics, Thapar University, Patiala, India	International Journal of Intelligent Systems	2018	8848173
713	Bandwidth allocation and distributed relay selection for multiple-user and multiple-relay cooperative systems using Stackelberg game	Rahi P., Sharma S.	Rahi, P., Department of ECE, Thapar University, Patiala, India; Sharma, S., Department of ECE, Thapar University, Patiala, India	International Journal of Communication Systems	2018	10745351
714	High-Rate STBC Communication System Using Imperfect CSI Under Time-Selective Flat-Fading Environment	Kohli A.K., Garg S.	Kohli, A.K., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Garg, S., Department of Electrical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India	Wireless Personal Communications	2018	9296212
715	Comments on "Some new distance measures for type-2 fuzzy sets and distance measure based ranking for group decision making problems"	Singh S., Garg H.	Singh, S., School of Mathematics, Thapar University, Patiala, 147004, India; Garg, H., School of Mathematics, Thapar University, Patiala, 147004, India	Frontiers of Computer Science	2018	20952228
716	Lithium-doped ceria supported SBA-15 as mesoporous solid reusable and heterogeneous catalyst for biodiesel production via simultaneous esterification and transesterification of waste cottonseed oil	Malhotra R., Ali A.	Malhotra, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Renewable Energy	2018	9601481
717	Effect of thermal aging on stability of transformer oil based temperature sensitive magnetic fluids	Kaur N., Chudasama B.	Kaur, N., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India	Journal of Magnetism and Magnetic Materials	2018	3048853
718	New cuckoo search algorithms with enhanced exploration and exploitation properties	Salgotra R., Singh U., Saha S.	Salgotra, R., Electronics & Communication Engineering Department, Thapar University Punjab, India; Singh, U., Electronics & Communication Engineering Department, Thapar University Punjab, India; Saha, S., Department of Computer Science, Indian Institute of Technology Patna, India	Expert Systems with Applications	2018	9574174
719	A surface expressed alkaline phosphatase biosensor modified with flower shaped ZnO for the detection of chlorpyrifos	Pabbi M., Kaur A., Mittal S.K., Jindal R.	Pabbi, M., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Kaur, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Jindal, R., Department of Applied Sciences, Thapar Polytechnic College, Patiala, Punjab, India	Sensors and Actuators, B: Chemical	2018	9254005
720	Ensemble based spam detection in social IoT using probabilistic data structures	Singh A., Batra S.	Singh, A., Thapar University Punjab 147001, India; Batra, S., Thapar University Punjab 147001, India	Future Generation Computer Systems	2018	0167739X
721	Comprehensive survey on haze removal techniques	Singh D., Kumar V.	Singh, D., Department of Computer Science and Engineering, Thapar University, Patiala, India; Kumar, V., Department of Computer Science and Engineering, Thapar University, Patiala, India	Multimedia Tools and Applications	2018	13807501
722	Effect of Tailoring Martensite Shape and Spatial Distribution on Tensile Deformation Characteristics of Dual Phase Steels	Ravi Kumar B., Nanda T., Singh V., Adhikary M., Halder N., Venugopalan T.	Ravi Kumar, B., Materials Science and Evaluation (MSE), CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Nanda, T., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Singh, V., Mechanical Engineering Department, Indus International University, Una, 174301, India; Adhikary, M., Tata Steel Limited, Jamshedpur, 831001, India; Halder, N., Engineering Division, CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Venugopalan, T., Tata Steel Limited, Jamshedpur, 831001, India	Journal of Engineering Materials and Technology, Transactions of the ASME	2018	944289
723	BULLET: Particle Swarm Optimization Based Scheduling Technique for Provisioned Cloud Resources	Gill S.S., Buyya R., Chana I., Singh M., Abraham A.	Gill, S.S., Cloud Computing and Distributed Systems (CLOUDS) Lab, School of Computing and Information Systems, The University of Melbourne, Parkville, Australia; Buyya, R., Cloud Computing and Distributed Systems (CLOUDS) Lab, School of Computing and Information Systems, The University of Melbourne, Parkville, Australia; Chana, I., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Abraham, A., Machine Intelligence Research Labs (MIR Labs), Scientific Network for Innovation and Research Excellence, Auburn, WA, United States	Journal of Network and Systems Management	2018	10647570

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
724	XPC Polymorphism and Risk for Lung Cancer in North Indian Patients Treated with Platinum Based Chemotherapy and Its Association with Clinical Outcomes	Lawania S., Singh N., Behera D., Sharma S.	Lawania, S., Department of Biotechnology, Thapar University, Punjab, 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Sector 14, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Punjab, 147002, India	Pathology and Oncology Research	2018	12194956
725	Self authenticating medical X-ray images for telemedicine applications	Bakthula R., Shivani S., Agarwal S.	Bakthula, R., National Institute of Technology Allahabad, Allahabad, India; Shivani, S., Thapar University, Patiala, India; Agarwal, S., National Institute of Technology Allahabad, Allahabad, India	Multimedia Tools and Applications	2018	13807501
726	On-Chip Oval-Shaped Nanocavity Photonic Crystal Waveguide Biosensor for Detection of Foodborne Pathogens	Painam B., Kaler R.S., Kumar M.	Painam, B., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, 147004, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, 147004, India; Kumar, M., Optoelectronic Nanodevice Research Laboratory, Department of Electrical Engineering, Indian Institute of Technology (IIT), Indore, 453446, India	Plasmonics	2018	15571955
727	Multi-objective thermal power load dispatch using chaotic differential evolutionary algorithm and Powell's method	Singh N.J., Dhillon J.S., Kothari D.P.	Singh, N.J., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, Sant Longowal Institute of Engineering and Technology, Longowal (Sangrur), Punjab 148106, India; Kothari, D.P., Gaikwad-Patil Group of Institutions, Wardha Road, Nagpur, 441108, India	Soft Computing	2018	14327643
728	Fourier-Mellin moment-based intertwining map for image encryption	Kaur M., Kumar V.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Modern Physics Letters B	2018	2179849
729	Synthesis of bimetallic Au-Ag alloyed mesocomposites and their catalytic activity for the reduction of nitroaromatics	Sareen S., Mutreja V., Pal B., Singh S.	Sareen, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Mutreja, V., Department of Chemistry, Maharishi Markandeshwar University, Mullana, Haryana 133207, India; Pal, B., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India	Applied Surface Science	2018	1694332
730	Elucidating doping driven microstructure evolution and optical properties of lead sulfide thin films grown from a chemical bath	Mohanty B.C., Bector K., Laha R.	Mohanty, B.C., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Bector, K., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Laha, R., Department of Physics, Indian Institute of Technology PatnaBihar 801103, India	Applied Surface Science	2018	1694332
731	Induction of Catalytic Activity in ZnO Loaded Cobalt Based MOF for the Reduction of Nitroarenes	Kaur R., Chhibber M., Mahata P., Mittal S.K.	Kaur, R., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab, India; Chhibber, M., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab, India; Mahata, P., Department of Chemistry, Jadavpur University, Kolkata, West Bengal, India; Mittal, S.K., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab, India	ChemistrySelect	2018	23656549
732	Reconfiguring the marketing mix to counter the counterfeits in the global arena	Ghuman K., Merchant H.	Ghuman, K., LM Thapar School of Management, Thapar University, Patiala, India; Merchant, H., University of South Florida in St. Petersburg, St. Petersburg, FL, United States	Emerging Issues in Global Marketing: A Shifting Paradigm	2018	
733	Catalysis of Methyl Transfer Reactions by Oriented External Electric Fields: Are Gold-Thiolate Linkers Innocent?	Ramanan R., Danovich D., Mandal D., Shaik S.	Ramanan, R., Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, 91904, Israel; Danovich, D., Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, 91904, Israel; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Shaik, S., Institute of Chemistry, Hebrew University of Jerusalem, Jerusalem, 91904, Israel	Journal of the American Chemical Society	2018	27863
734	Morphology, rheology and biodegradation of oxo-degradable polypropylene/poly lactide blends	Mandal D.K., Bhunia H., Bajpai P.K., Chaudhari C.V., Dubey K.A., Varshney L.	Mandal, D.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab, 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, 147004, India; Chaudhari, C.V., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India; Dubey, K.A., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	Journal of Polymer Engineering	2018	3346447
735	Clustering-based resource discovery on Internet-of-Things	Bharti M., Kumar R., Saxena S.	Bharti, M., Thapar University, Patiala, India; Kumar, R., Thapar University, Patiala, India; Saxena, S., Thapar University, Patiala, India	International Journal of Communication Systems	2018	10745351
736	Technical feasibility of a proton battery with an activated carbon electrode	Heidari S., Seif Mohammadi S., Oberoi A.S., Andrews J.	Heidari, S., School of Engineering (Aerospace, Mechanical and Manufacturing), RMIT UniversityVictoria 3083, Australia; Seif Mohammadi, S., School of Engineering (Aerospace, Mechanical and Manufacturing), RMIT UniversityVictoria 3083, Australia; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Andrews, J., School of Engineering (Aerospace, Mechanical and Manufacturing), RMIT UniversityVictoria 3083, Australia	International Journal of Hydrogen Energy	2018	3603199
737	Synchronized operation of grid power, solar power, and battery for smart energy management	Kumar P., Thanki D.V.	Kumar, P., Thapar University, India; Thanki, D.V., Lovely Professional University, India	Handbook of Research on Power and Energy System Optimization	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
738	Handbook of research on power and energy system optimization	Kumar P., Singh S., Ali I., Ustun T.S.	Kumar, P., Thapar University, India; Singh, S., National Institute of Technology Kurukshetra, India; Ali, I., Jamia Millia Islamia, India; Ustun, T.S., Carnegie Mellon University, United States	Handbook of Research on Power and Energy System Optimization	2018	
739	Demand-side management: Energy efficiency and demand response	Kumar P., Ali I., Thanki D.V.	Kumar, P., Thapar University, India; Ali, I., Jamia Millia Islamia, India; Thanki, D.V., Lovely Professional University, India	Handbook of Research on Power and Energy System Optimization	2018	
740	Visible irradiation induced photodegradation by NbC/C nanocomposite derived from smoked cigarette litter (filters)	Gupta A., Pandey O.P.	Gupta, A., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Solar Energy	2018	0038092X
741	Electrocatalytic oxidative treatment of real textile wastewater in continuous reactor: Degradation pathway and disposability study	Kaur P., Kushwaha J.P., Sangal V.K.	Kaur, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Journal of Hazardous Materials	2018	3043894
742	Biosynthesis of tin oxide nanoparticles using Psidium Guajava leave extract for photocatalytic dye degradation under sunlight	Kumar M., Mehta A., Mishra A., Singh J., Rawat M., Basu S.	Kumar, M., Dept. of NanotechnologySri Guru Granth Sahib World University, India; Mehta, A., School of Chemistry and BiochemistryThapar University, India; Mishra, A., School of Chemistry and BiochemistryThapar University, India; Singh, J., Dept. of NanotechnologySri Guru Granth Sahib World University, India; Rawat, M., Dept. of NanotechnologySri Guru Granth Sahib World University, India; Basu, S., School of Chemistry and BiochemistryThapar University, India	Materials Letters	2018	0167577X
743	Efficient removal of bisphenol S from aqueous solution by synthesized nano-zeolite secony mobil-5	Goyal N., Barman S., Bulasara V.K.	Goyal, N., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Barman, S., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	Microporous and Mesoporous Materials	2018	13871811
744	Adaptive threshold method for peak detection of surface electromyography signal from around shoulder muscles	Kaur A., Agarwal R., Kumar A.	Kaur, A., ECED, Thapar University, Patiala, India; Agarwal, R., EIED, Thapar University, Patiala, India; Kumar, A., Biomedical Instrumentation Unit, CSIR-CSIO, Chandigarh, India	Journal of Applied Statistics	2018	2664763
745	A novel fault detection and recovery technique for cluster-based underwater wireless sensor networks	Goyal N., Dave M., Verma A.K.	Goyal, N., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana 136119, India; Dave, M., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana 136119, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	International Journal of Communication Systems	2018	10745351
746	On segmentation of words from online handwritten Gurmukhi sentences	Dahake D., Sharma R.K., Singh H.	Dahake, D., Department of Computer Science and Engineering, Thapar University, Patiala, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar University, Patiala, India; Singh, H., Department of Computer Science and Engineering, Thapar University, Patiala, India	Proceedings - 2017 2nd International Conference on Man and Machine Interfacing, MAMI 2017	2018	
747	A new 'Turn-on' PET-CHEF based fluorescent sensor for Al ³⁺ and CN ⁻ : Applications in real samples	Gupta A.S., Paul K., Luxami V.	Gupta, A.S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India	Analytical Methods	2018	17599660
748	A sensitive turn on fluorescent probe for detection of biothiols using MnO ₂ @carbon dots nanocomposites	Garg D., Mehta A., Mishra A., Basu S.	Garg, D., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	13861425
749	Synthesis of molybdenum nitride (Mo ₂ N) nanoflakes via in-situ reduction-nitridation	Sidana H.K., Mir R.A., Pandey O.P.	Sidana, H.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Mir, R.A., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Journal of Alloys and Compounds	2018	9258388
750	Facile in-situ synthesis of NbB ₂ nanoparticles at low temperature	Gupta A., Singhal V., Pandey O.P.	Gupta, A., Functional Materials Lab, School of Physics and Materials Sciences, Thapar University, Patiala, 147004, India; Singhal, V., Functional Materials Lab, School of Physics and Materials Sciences, Thapar University, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Sciences, Thapar University, Patiala, 147004, India	Journal of Alloys and Compounds	2018	9258388
751	Effect of chemical reaction and heat absorption on MHD nanoliquid flow past a stretching sheet in the presence of a transverse magnetic field	Nandkeolyar R., Mahatha B.K., Mahato G.K., Sibanda P.	Nandkeolyar, R., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mahatha, B.K., Department of Mathematics, School of Applied Sciences, Kalinga Institute of Industrial Technology, Bhubaneswar, 751024, India; Mahato, G.K., Department of Mathematics, Centurion University of Technology & Management, Bhubaneswar, 752050, India; Sibanda, P., School of Mathematics, Statistics & Computer Science, University of KwaZulu-Natal, Private Bag X01, Scottsville, Pietermaritzburg, 3209, South Africa	Magnetochemistry	2018	23127481

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
752	Development of porous carbons from urea formaldehyde resin for carbon dioxide adsorption	Tiwari D., Bhunia H., Bajpai P.K.	Tiwari, D., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147 004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147 004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147 004, India	Journal of the Indian Chemical Society	2018	194522
753	Enhanced encrypted reversible data hiding algorithm with minimum distortion through homomorphic encryption	Bhardwaj R.	Bhardwaj, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	Journal of Electronic Imaging	2018	10179909
754	An overview of problems and solutions for components subjected to fireside of boilers	Singh A., Sharma V., Mittal S., Pandey G., Mudgal D., Gupta P.	Singh, A., Department of Mechanical and Automation Engineering, A.S.E.T., Amity University, Uttar Pradesh, Noida, India; Sharma, V., Department of Mechanical and Automation Engineering, A.S.E.T., Amity University, Uttar Pradesh, Noida, India; Mittal, S., Department of Mechanical and Automation Engineering, A.S.E.T., Amity University, Uttar Pradesh, Noida, India; Pandey, G., Department of Mechanical and Automation Engineering, A.S.E.T., Amity University, Uttar Pradesh, Noida, India; Mudgal, D., Department of Mechanical and Automation Engineering, A.S.E.T., Amity University, Uttar Pradesh, Noida, India; Gupta, P., Department of Mechanical and Automation Engineering, A.S.E.T., Amity University, Uttar Pradesh, Noida, India	International Journal of Industrial Chemistry	2018	22285970
755	Effects of Thermal Feed Quality on the Performance of a Divided Wall Distillation Column	Sangal V.K., Kumar V., Mishra I.M.	Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, V., Department of Chemical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, 826004, India; Mishra, I.M., Department of Chemical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, 826004, India	Theoretical Foundations of Chemical Engineering	2018	405795
756	Processing of Ni20WC10Mo based composite clads on austenitic stainless steel through microwave hybrid heating	Kaushal S., Singh D., Gupta D., Bhowmick H., Jain V.	Kaushal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Research Express	2018	20531591
757	Robust aggregation operators for multi-criteria decision-making with intuitionistic fuzzy soft set environment	Arora R., Garg H.	Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Scientia Iranica	2018	10263098
758	Lie symmetry based-analytical and numerical approach for modified Burgers-KdV equation	Kumar V., Kaur L., Kumar A., Koksai M.E.	Kumar, V., Department of Mathematics, D.A.V. College Pundri, Kaithal 136026, Haryana, India; Kaur, L., Department of Mathematics, Jaypee Institute of Information Technology, Noida (U. P), India; Kumar, A., Department of Computer Science and Engineering, Thapar University, Patiala, India; Koksai, M.E., Department of Mathematics, Ondokuz Mayıs University, 55139 Atakum, Samsun, Turkey	Results in Physics	2018	22113797
759	Effect of deformations on the compactness of odd-Z superheavy nuclei formed in cold and hot fusion reactions	Kaur G., Sandhu K., Sharma M.K.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sandhu, K., Department of Physics, GSSDGS Khalsa College, Patiala, 147001, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2018	3759474
760	Quantifying matrix product state	Bhatia A.S., Kumar A.	Bhatia, A.S., Department of Computer Science, Thapar University, Patiala, India; Kumar, A., Department of Computer Science, Thapar University, Patiala, India	Quantum Information Processing	2018	15700755
761	Some arithmetic operations on the generalized sigmoidal fuzzy numbers and its application	Garg H.	Garg, H., School of Mathematics, Thapar University Patiala, Punjab, 147004, India	Granular Computing	2018	23644966
762	Arithmetic Operations on Generalized Parabolic Fuzzy Numbers and Its Application	Garg H., Ansha	Garg, H., School of Mathematics, Thapar University Patiala, Patiala, 147004, India; Ansha, School of Mathematics, Thapar University Patiala, Patiala, 147004, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2018	3698203
763	Dehazing of remote sensing images using fourth-order partial differential equations based trilateral filter	Singh D., Kumar V.	Singh, D., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	IET Computer Vision	2018	17519632
764	Biochemical and histological changes during in vitro rooting of microcuttings of Bacopa monnieri (L.) Wettst	Goel A., Kaur A., Kumar A.	Goel, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, 147001, India; Kaur, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, 147001, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar University, Patiala, 147001, India	Acta Physiologiae Plantarum	2018	1375881

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
765	Performance evaluation of outsourcing decision using a BSC and fuzzy AHP approach: A case of the Indian coal mining organization by M., Modak, K., Pathak, K. K., Ghosh [Resour. Policy 52 (2017) 181–191]: Suggested modification	Bhat S.A., Kumar A.	Bhat, S.A., School of Mathematics, Thapar University, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar University, Patiala, Punjab, India	Resources Policy	2018	3014207
766	To study the contribution of different geometric parameters on the failure load for multi holes pin joints prepared from glass/epoxy nanoclay laminates	Singh M., Saini J.S., Bhunia H.	Singh, M., Mechanical Engineering Department, Thapar University, India; Saini, J.S., Mechanical Engineering Department, Thapar University, India; Bhunia, H., Chemical Engineering Department, Thapar University, India	Journal of Composite Materials	2018	219983
767	Competitive adsorption isotherm modelling of heterocyclic nitrogenous compounds, pyridine and quinoline, onto granular activated carbon and bagasse fly ash	Rameshraj D., Srivastava V.C., Kushwaha J.P., Mall I.D.	Rameshraj, D., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Roorkee, Uttarakhand 247667, India; Srivastava, V.C., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Roorkee, Uttarakhand 247667, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Mall, I.D., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Roorkee, Uttarakhand 247667, India	Chemical Papers	2018	3666352
768	Performance analysis of SFBC-OFDM system with channel estimation error over generalized fading channels	Singh D., Joshi H.D.	Singh, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Transactions on Emerging Telecommunications Technologies	2018	21615748
769	Integrating genome-wide association study summaries and element-gene interaction datasets identified multiple associations between elements and complex diseases	He A., Wang W., Prakash N.T., Tinkov A.A., Skalny A.V., Wen Y., Hao J., Guo X., Zhang F.	He, A., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, China; Wang, W., Institute for Molecular Medicine Finland (FIMM), University of Helsinki, Helsinki, Finland; Prakash, N.T., Thapar University, Patiala, India; Tinkov, A.A., Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation, Yaroslavl State University, Yaroslavl, Russian Federation; Skalny, A.V., Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation, Yaroslavl State University, Yaroslavl, Russian Federation, Orenburg State University, Orenburg, Russian Federation, Trace Element Institute for UNESCO, Lyon, France; Wen, Y., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, China; Hao, J., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, China; Guo, X., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, China; Zhang, F., Key Laboratory of Trace Elements and Endemic Diseases of National Health and Family Planning Commission, School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, China	Genetic Epidemiology	2018	7410395
770	Placement of optical phase conjugation in WDM systems to suppress FWM	Kaur J., Singh H.	Kaur, J., Thapar University, Patiala, Punjab, India; Singh, H., Thapar University, Patiala, Punjab, India	Microwave and Optical Technology Letters	2018	8952477
771	Nature-Inspired Algorithm for Training Multilayer Perceptron Networks in e-health Environments for High-Risk Pregnancy Care	Moreira M.W.L., Rodrigues J.J.P.C., Kumar N., Al-Muhtadi J., Korotaev V.	Moreira, M.W.L., Instituto de Telecomunicações, Universidade da Beira Interior (UBI), Covilhã, Portugal, Instituto Federal de Educação, Ciência e Tecnologia do Ceará (IFCE), Aracati, CE, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicações, Universidade da Beira Interior (UBI), Covilhã, Portugal, National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil, ITMO University, Saint Petersburg, Russian Federation, College of Computer and Information Sciences (CCIS), King Saud University, Riyadh, 12372, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala (Punjab), India; Al-Muhtadi, J., College of Computer and Information Sciences (CCIS), King Saud University, Riyadh, 12372, Saudi Arabia; Korotaev, V., ITMO University, Saint Petersburg, Russian Federation	Journal of Medical Systems	2018	1485598
772	Synthesis and characterization of low-cost ceramic membranes from fly ash and kaolin for humic acid separation	Rawat M., Bulasara V.K.	Rawat, M., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	Korean Journal of Chemical Engineering	2018	2561115

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
773	In vivo automated quantification of thermally damaged human tissue using polarization sensitive optical coherence tomography	Dubey K., Srivastava V., Dalal K.	Dubey, K., Department of Electrical & Instrumentation Engineering, Thapar University, Patiala, Punjab, India; Srivastava, V., Department of Electrical & Instrumentation Engineering, Thapar University, Patiala, Punjab, India; Dalal, K., Department of Biophysics, All India Institute of Medical Science, New Delhi, India	Computerized Medical Imaging and Graphics	2018	8956111
774	Effect of different plasmonic metals on photocatalytic degradation of volatile organic compounds (VOCs) by bentonite/M-TiO ₂ nanocomposites under UV/visible light	Mishra A., Mehta A., Kainth S., Basu S.	Mishra, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Kainth, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Applied Clay Science	2018	1691317
775	New exponential operational laws and their aggregation operators for interval-valued Pythagorean fuzzy multicriteria decision-making	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	International Journal of Intelligent Systems	2018	8848173
776	GreenSched: An intelligent energy aware scheduling for deadline-and-budget constrained cloud tasks	Kaur T., Chana I.	Kaur, T., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Simulation Modelling Practice and Theory	2018	1569190X
777	New Acyclic Arylether Ionophores as Potentiometric Sensors for Ca(II) and Fe(II) Ions	Kaur H., Chhibber M., Mittal S.K.	Kaur, H., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Mapan - Journal of Metrology Society of India	2018	9703950
778	Solar light driven photocatalytic degradation of Ofloxacin based on ultra-thin bismuth molybdenum oxide nanosheets	Gupta G., Umar A., Kaur A., Sood S., Dhir A., Kansal S.K.	Gupta, G., Dr. S. S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh, 160014, India; Umar, A., Department of Chemistry, Faculty of Science and Arts and Promising Centre for Sensors and Electronic Devices (PCSED), Najran University, Najran, 11001, Saudi Arabia; Kaur, A., Dr. S. S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh, 160014, India; Sood, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Dhir, A., School of Energy and Environment, Thapar University, Patiala, 147004, India; Kansal, S.K., Dr. S. S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh, 160014, India	Materials Research Bulletin	2018	255408
779	Nano-surface finishing of hardened AISI 52100 steel using magnetorheological solid core rotating tool	Maan S., Singh A.K.	Maan, S., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Singh, A.K., Mechanical Engineering Department, Thapar University, Patiala, 147004, India	International Journal of Advanced Manufacturing Technology	2018	2683768
780	Tungsten Oxide Thin Film Characterizations for Acetone Gas Detection	Sachdeva S., Agarwal A., Agarwal R.	Sachdeva, S., Thapar University, Patiala, Punjab 147001, India; Agarwal, A., CSIR—Central Electronics Engineering Research Institute, Pilani, 333031, India; Agarwal, R., Thapar University, Patiala, Punjab 147001, India	Mapan - Journal of Metrology Society of India	2018	9703950
781	Resource-based mobility management for video users in 5G using catalytic computing	Sharma V., You I., Kumar R.	Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; You, I., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, 147004, India; Kumar, R., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, 147004, India	Computer Communications	2018	1403664
782	Certificateless Provable Data Possession Scheme for Cloud-Based Smart Grid Data Management Systems	He D., Kumar N., Zeadally S., Wang H.	He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, 430072, China, State Key Laboratory of Cryptology, P.O. Box 5159, Beijing, 100878, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY 40506, United States; Wang, H., Jiangsu Key Laboratory of Big Data Security and Intelligent Processing, School of Computer Science and Technology, Nanjing University of Posts and Telecommunications, Nanjing, 210028, China	IEEE Transactions on Industrial Informatics	2018	15513203
783	Numerical implementation of drop and tilt method of five-axis tool positioning for tensor product surfaces	Duvedi R.K., Bedi S., Mann S.	Duvedi, R.K., Thapar University, Patiala, Punjab, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Advanced Manufacturing Technology	2018	2683768
784	Analyzing inconsistencies in software product lines using an ontological rule-based approach	Bhushan M., Goel S., Kaur K.	Bhushan, M., CSED, Thapar University, Patiala, Punjab, India; Goel, S., Department of Computer Science Engineering, Bennett University, Greater Noida, U.P., India; Kaur, K., CSED, Thapar University, Patiala, Punjab, India	Journal of Systems and Software	2018	1641212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
785	Biodegradation of Pro-oxidant Filled Polypropylene Films and Evaluation of the Ecotoxicological Impact	Mandal D.K., Bhunia H., Bajpai P.K., Kumar A., Madhu G., Nando G.B.	Mandal, D.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Kumar, A., Department of Biotechnology, Thapar University, Patiala, Punjab 147004, India; Madhu, G., Indian Institute of Packaging, Andheri (East), Mumbai, 400093, India; Nando, G.B., Rubber Technology Centre, Indian Institute of Technology, Kharagpur, West Bengal 721302, India	Journal of Polymers and the Environment	2018	15662543
786	Multi secret sharing with unexpanded meaningful shares	Shivani S.	Shivani, S., Thapar University, Patiala, India	Multimedia Tools and Applications	2018	13807501
787	VMVC: Verifiable multi-tone visual cryptography	Shivani S.	Shivani, S., Thapar University, Patiala, India	Multimedia Tools and Applications	2018	13807501
788	A robust and anonymous patient monitoring system using wireless medical sensor networks	Amin R., Islam S.H., Biswas G.P., Khan M.K., Kumar N.	Amin, R., Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand 826004, India; Islam, S.H., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, Rajasthan 333031, India; Biswas, G.P., Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, Jharkhand 826004, India; Khan, M.K., Center of Excellence in Information Assurance, King Saud University, Riyadh, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Panjab 147004, India	Future Generation Computer Systems	2018	0167739X
789	Influence of stress on propagation of shear wave in piezoelectric-piezoelectric (PE-PE) composite layered structure	Gaur A.M.	Gaur, A.M., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, Punjab 147004, India	Latin American Journal of Solids and Structures	2018	16797817
790	Optimal integration of multi distributed generation sources in radial distribution networks using a hybrid algorithm	Bhullar S., Ghosh S.	Bhullar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2018	19961073
791	Enhanced dye degradation using hydrothermally synthesized nanostructured Sb2S3/rGO under visible light irradiation	Dashairya L., Sharma M., Basu S., Saha P.	Dashairya, L., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India; Sharma, M., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Saha, P., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India	Journal of Alloys and Compounds	2018	9258388
792	Surface Modification of Nanocrystalline Zeolite X and Its Application as Catalyst in Synthesis of Cumene in a Packed Bed Flow Reactor: A Kinetic Study	Thakur R., Barman S., Halder G.	Thakur, R., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India, School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Barman, S., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Halder, G., Department of Chemical Engineering, National Institute of Technology, Durgapur, West Bengal, India	International Journal of Chemical Reactor Engineering	2018	15426580
793	Plasmonic stimulated photocatalytic/electrochemical hydrogen evolution from water by (001) faceted and bimetallic loaded titania nanosheets under sunlight irradiation	Rather R.A., Pooja D., Kumar P., Singh S., Pal B.	Rather, R.A., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Pooja, D., CSIR-Central Scientific Instruments Organisation, Chandigarh, 160030, India; Kumar, P., CSIR-Central Scientific Instruments Organisation, Chandigarh, 160030, India; Singh, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India	Journal of Cleaner Production	2018	9596526
794	Monitoring early-age setting of silica fume concrete using wave propagation techniques	Bhalla N., Sharma S., Sharma S., Siddique R.	Bhalla, N., Civil Engineering Department, Thapar University, Patiala, India; Sharma, S., Mechanical Engineering Department, Thapar University, Patiala, India; Sharma, S., Civil Engineering Department, Thapar University, Patiala, India; Siddique, R., Civil Engineering Department, Thapar University, Patiala, India	Construction and Building Materials	2018	9500618
795	Performance and mechanism of dye extraction from aqueous solution using synthesized deep eutectic solvents	Kaur P., Rajani N., Kumawat P., Singh N., Kushwaha J.P.	Kaur, P., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Rajani, N., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Singh, N., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2018	9277757
796	Big Data Framework for Zero-Day Malware Detection	Gupta D., Rani R.	Gupta, D., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Cybernetics and Systems	2018	1969722
797	Oxidative degradation of aliphatic carboxylic acids by photocatalysis with bare and Ag-loaded TiO2 under UV light irradiation	Prakash R., Rather R.A., Kaur M., Pal B.	Prakash, R., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India; Rather, R.A., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India; Kaur, M., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India; Pal, B., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India	Particulate Science and Technology	2018	2726351

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
798	Catalyst-coated cement beads for the degradation and mineralization of fungicide carbendazim using laboratory and pilot-scale reactor: catalyst stability analysis	Singh A., Verma A., Bansal P., Aggarwal K., Kaur T., Toor A.P., Sangal V.K.	Singh, A., School of Energy and Environment, Thapar University, Patiala, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, India; Bansal, P., School of Energy and Environment, Thapar University, Patiala, India; Aggarwal, K., School of Energy and Environment, Thapar University, Patiala, India; Kaur, T., SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India; Toor, A.P., SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India; Sangal, V.K., Department of Chemical Engineering, Thapar University, Patiala, India	Environmental Technology (United Kingdom)	2018	9593330
799	An untraceable and anonymous password authentication protocol for heterogeneous wireless sensor networks	Amin R., Islam S.K.H., Kumar N., Choo K.-K.R.	Amin, R., Department of Computer Science and Engineering, Dr. Shyama Prasad Mukherjee International Institute of Information Technology, Naya Raipur, India; Islam, S.K.H., Department of Computer Science and Engineering, Indian Institute of Information Technology Kalyani West Bengal 741235, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, TX 78249, United States, Department of Electrical and Computer Engineering, The University of Texas at San Antonio, San Antonio, TX 78249, United States, School of Information Technology & Mathematical Sciences, University of South Australia SA 5095, Australia	Journal of Network and Computer Applications	2018	10848045
800	Multiferroic properties of Sr-doped BiFeO ₃ nanoparticles	Dhir G., Uniyal P., Verma N.K.	Dhir, G., Department of Science, Public College, Samana, 147 102, India; Uniyal, P., Nano Research Lab, School of Physics and Materials Science, Thapar University, Patiala, 147 004, India; Verma, N.K., Nano Research Lab, School of Physics and Materials Science, Thapar University, Patiala, 147 004, India	Physica B: Condensed Matter	2018	9214526
801	Feasibility of using combined TiO ₂ photocatalysis and RBC process for the treatment of real pharmaceutical wastewater	Talwar S., Sangal V.K., Verma A.	Talwar, S., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India	Journal of Photochemistry and Photobiology A: Chemistry	2018	10106030
802	Removal of emerging contaminants daidzein and coumestrol from water by nanozeolite beta modified with tetrasubstituted ammonium cation	Goyal N., Bulasara V.K., Barman S.	Goyal, N., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Barman, S., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	Journal of Hazardous Materials	2018	3043894
803	Single image haze removal using integrated dark and bright channel prior	Singh D., Kumar V.	Singh, D., Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, India	Modern Physics Letters B	2018	2179849
804	Investigation of deterioration in corroding reinforced concrete beams using active and passive techniques	Sharma A., Sharma S., Sharma S., Mukherjee A.	Sharma, A., Civil Engineering Department, Thapar University, Patiala, India; Sharma, S., Civil Engineering Department, Thapar University, Patiala, India; Sharma, S., Mechanical Engineering Department, Thapar University, Patiala, India; Mukherjee, A., Civil Engineering Department, Curtin University, Bentley WA 6102, Australia	Construction and Building Materials	2018	9500618
805	Coupling and cohesion metrics for object-oriented software: A systematic mapping study	Tiwari S., Rathore S.S.	Tiwari, S., DA-IICT, Gandhinagar, India; Rathore, S.S., Thapar University, Patiala, India	ACM International Conference Proceeding Series	2018	
806	Feature selection techniques to counter class imbalance problem for aging related bug prediction	Kumar L., Sureka A.	Kumar, L., Thapar University, Patiala, Punjab, India; Sureka, A., Ashoka University, Sonapat, Haryana, India	ACM International Conference Proceeding Series	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
807	Interplay of charge clustering and weak binding in reactions of Li 8	Cook K.J., Carter I.P., Simpson E.C., Dasgupta M., Hinde D.J., Bezzina L.T., Kalkal S., Sengupta C., Simenel C., Swinton-Bland B.M.A., Vo-Phuoc K., Williams E.	Cook, K.J., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Carter, I.P., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Simpson, E.C., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Dasgupta, M., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Hinde, D.J., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Bezzina, L.T., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Kalkal, S., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Sengupta, C., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Simenel, C., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Swinton-Bland, B.M.A., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Vo-Phuoc, K., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia; Williams, E., Department of Nuclear Physics, Research School of Physics and Engineering, Australian National University, Canberra, ACT 2601, Australia	Physical Review C	2018	24699985
808	Superconductors	Bhadauria P.P.S., Gupta A., Kishan H., Narlikar A.V.	Bhadauria, P.P.S., National Physical Laboratory (CSIR), New Delhi, India; Gupta, A., Thapar Institute of Engineering and Technology, Patiala, India; Kishan, H., Thapar Institute of Engineering and Technology, Patiala, India; Narlikar, A.V., UGC-DAE Consortium for Scientific Research, Indore, India	Comprehensive Energy Systems	2018	
809	B2FSE framework for high dimensional imbalanced data: A case study for drug toxicity prediction	Hooda N., Bawa S., Rana P.S.	Hooda, N., Computer Science and Engineering Department, Thapar University, Patiala147004, India; Bawa, S., Computer Science and Engineering Department, Thapar University, Patiala147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar University, Patiala147004, India	Neurocomputing	2018	9252312
810	Optimization of process parameters for improving drilling quality and machining performance of abrasive assisted drilling on AISI D2 steel	Kumar P., Singh G., Jain V., Gupta D.	Kumar, P., Shivalik Coolege of Engineering, Dehradun, 248 197, India; Singh, G., Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147 004, India; Jain, V., Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147 004, India; Gupta, D., Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147 004, India	Indian Journal of Engineering and Materials Sciences	2018	9714588
811	Multivariate analysis of wastewater quality of different rural human settlements in Punjab (India)	Cheema P.P.S., Reddy A.S., Garg L., Kaur D.	Cheema, P.P.S., Guru Nanak Dev Engineering College, Department of Civil Engineering, Ludhiana, Punjab 141006, India; Reddy, A.S., Thapar University, School of Energy and Environment, Patiala, Punjab 147004, India; Garg, L., Guru Nanak Dev Engineering College, Department of Civil Engineering, Ludhiana, Punjab 141006, India; Kaur, D., Giani Zail Singh PTU Campus, Department of Civil Engineering, Bathinda, Punjab, India	Environmental Engineering and Management Journal	2018	15829596
812	Offline Handwritten Numeral Recognition using Combination of Different Feature Extraction Techniques	Kumar M., Jindal M.K., Sharma R.K., Jindal S.R.	Kumar, M., Department of Computer Applications, GZS Campus College of Engineering & Technology (Maharaja Ranjit Singh Punjab Technical University), Bathinda, Punjab, India; Jindal, M.K., Department of Computer Science & Applications, Panjab, University Regional Centre, Muktsar, Punjab, India; Sharma, R.K., Department of Computer Science & Engineering, Thapar University, Patiala, Punjab, India; Jindal, S.R., Computer Science & Engineering, Yadavindra College of Engineering, Talwandi Sabo, Bathinda, Punjab, India	National Academy Science Letters	2018	0250541X
813	An experimental study on shear capacity of interfaces in recycled aggregate concrete	Waseem S.A., Singh B.	Waseem, S.A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, B., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India	Structural Concrete	2018	14644177
814	A systemic review of meditation and psychophysiology	Kaur A., Singh M.	Kaur, A., EIED, Thapar University, India; Singh, M., EIED, Thapar University, India, EIED, Thapar University, India	Indian Journal of Public Health Research and Development	2018	9760245
815	In vivo classification of human skin burns using machine learning and quantitative features captured by optical coherence tomography	Singla N., Srivastava V., Mehta D.S.	Singla, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Mehta, D.S., Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Laser Physics Letters	2018	16122011
816	Effect of nano silica and silica fume on durability properties of high performance concrete	Nanda A.K., Bansal P.P., Kumar M.	Nanda, A.K., Department of Civil Engineering, Thapar University, Patiala, India; Bansal, P.P., Department of Civil Engineering, Thapar University, Patiala, India; Kumar, M., Department of Civil Engineering, Thapar University, Patiala, India	International Journal of Civil Engineering and Technology	2018	9766308

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
817	Interactive potential of genetic polymorphism in Xenobiotic metabolising and DNA repair genes for predicting lung cancer predisposition and overall survival in North Indians	Bhardwaj A., Bahl C., Sharma S., Singh N., Behera D.	Bhardwaj, A., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Bahl, C., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India	Mutation Research - Genetic Toxicology and Environmental Mutagenesis	2018	13835718
818	Optimized Big Data Management across Multi-Cloud Data Centers: Software-Defined-Network-Based Analysis	Chaudhary R., Aujla G.S., Kumar N., Rodrigues J.J.P.C.	Chaudhary, R., Thapar University, India; Aujla, G.S., Thapar University, India; Kumar, N., Thapar University, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Instituto de Telecomunicações, Portugal, ITMO University, Russian Federation, University of Fortaleza, United States	IEEE Communications Magazine	2018	1636804
819	Edge Computing in the Industrial Internet of Things Environment: Software-Defined-Networks-Based Edge-Cloud Interplay	Kaur K., Garg S., Aujla G.S., Kumar N., Rodrigues J.J.P.C., Guizani M.	Kaur, K., Thapar University, India; Garg, S., Thapar University, India; Aujla, G.S., Thapar University, India; Kumar, N., Thapar University, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Instituto de Telecomunicações, Portugal, ITMO University, University of Fortaleza (UNIFOR), Brazil; Guizani, M., University of Idaho, United States	IEEE Communications Magazine	2018	1636804
820	An Expeditious Approach for the Synthesis of β -Carboline-Pyrazole-Based Molecular Hybrids	Singh D., Sharma P., Kumar R., Pandey S.K., Malakar C.C., Singh V.	Singh, D., Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab 144011, India; Sharma, P., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab 147004, India; Kumar, R., Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab 144011, India; Pandey, S.K., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab 147004, India, Department of Chemistry, Banaras Hindu University (BHU), Varanasi, Uttar Pradesh 221005, India; Malakar, C.C., Department of Chemistry, National Institute of Technology (NIT), Imphal, Manipur 795004, India; Singh, V., Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab 144011, India	Asian Journal of Organic Chemistry	2018	21935807
821	Making sleep study instrumentation more unobtrusive	Singh J., Sharma R.K.	Singh, J., Punjab University, Thapar University, Patiala, India; Sharma, R.K., National Institute of Technology, Kurukshetra, India	IEEE Instrumentation and Measurement Magazine	2018	10946969
822	A short review on: Optimization techniques of ZnO based thin film transistors	Vyas S.	Vyas, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, 147001, India	Chinese Journal of Physics	2018	5779073
823	Statistical analysis of ST segments in ECG signals for detection of ischaemic episodes	Kumar A., Singh M.	Kumar, A., Department of Electrical Engineering, GZS Campus College of Engineering & Technology, Bathinda, Punjab, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Transactions of the Institute of Measurement and Control	2018	1423312
824	A Linear Programming Method Based on an Improved Score Function for Interval-Valued Pythagorean Fuzzy Numbers and Its Application to Decision-Making	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India	International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems	2018	2184885
825	Ambika Methods for Solving Matrix Games with Atanassov's Intuitionistic Fuzzy Payoffs	Verma T., Kumar A.	Verma, T., School of Mathematics, Thapar University, Patiala, Punjab, 147004, India; Kumar, A., School of Mathematics, Thapar University, Patiala, Punjab, 147004, India	IEEE Transactions on Fuzzy Systems	2018	10636706
826	Green synthesis of silver nanoparticles using sun dried tuls leaves and its catalytic application for 4-Nitrophenol reduction	Singh J., Mehta A., Rawat M., Basu S.	Singh, J., Dept. of Nanotechnology, Sri Guru Granth Sahib World University Punjab, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Punjab, India; Rawat, M., Dept. of Nanotechnology, Sri Guru Granth Sahib World University Punjab, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Punjab, India	Journal of Environmental Chemical Engineering	2018	22133437
827	Nanofinishing of BK7 glass using a magnetorheological solid rotating core tool	Kumar S., Singh A.K.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Optics	2018	1559128X
828	An approach for functionally graded cladding of composite material on austenitic stainless steel substrate through microwave heating	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Bhowmick, H., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Journal of Composite Materials	2018	219983

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
829	Investigation of machining characterization for wire wear ratio & MRR on pure titanium in WEDM process through response surface methodology	Kumar A., Kumar V., Kumar J.	Kumar, A., Department of Mechanical Engineering, M. M. University, Mullana-Ambala, India; Kumar, V., Department of Mechanical Engineering, Thapar University, Patiala, India; Kumar, J., Department of Mechanical Engineering, National Institute of Technology, Kurukshetra, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2018	9544089
830	Certificateless searchable public key encryption scheme for industrial internet of things	Ma M., He D., Kumar N., Choo K.-K.R., Chen J.	Ma, M., School of Mathematics and Statistics, Wuhan University, Wuhan, 430072, China; He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, 430072, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States; Chen, J., School of Mathematics and Statistics, Wuhan University, Wuhan, 430072, China	IEEE Transactions on Industrial Informatics	2018	15513203
831	On Development and Wear Behavior of Microwave-Processed Functionally Graded Ni-SiC Clads on SS-304 Substrate	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Bhowmick, H., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India	Journal of Materials Engineering and Performance	2018	10599495
832	Design of Secure User Authenticated Key Management Protocol for Generic IoT Networks	Wazid M., Das A.K., Odelu V., Kumar N., Conti M., Jo M.	Wazid, M., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Odelu, V., Department of Computer Convergence Software, Korea University, Sejong City, 30019, South Korea; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Conti, M., Department of Mathematics, University of Padua, Padua, 35122, Italy; Jo, M., Department of Computer Convergence Software, Korea University, Sejong City, 30019, South Korea	IEEE Internet of Things Journal	2018	23274662
833	Heat transfer and pressure drop performance of alumina–water nanofluid in a flat vertical tube of a radiator	Sokhal G.S., Gangacharyulu D., Bulasara V.K.	Sokhal, G.S., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Chemical Engineering Communications	2018	986445
834	Production of biodiesel from unused algal biomass in Punjab, India	Karmakar R., Rajor A., Kundu K., Kumar N.	Karmakar, R., School of Energy and Environment, Thapar University, Patiala, Punjab 147004, India; Rajor, A., School of Energy and Environment, Thapar University, Patiala, Punjab 147004, India; Kundu, K., Department of Biofuel, CSIR CMERI CoEFM, Ludhiana, Punjab 141006, India; Kumar, N., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India	Petroleum Science	2018	16725107
835	Impact of Martensite Spatial Distribution on Quasi-Static and Dynamic Deformation Behavior of Dual-Phase Steel	Singh M., Das A., Venugopalan T., Mukherjee K., Walunj M., Nanda T., Kumar B.R.	Singh, M., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Das, A., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Venugopalan, T., Tata Steel Limited, Jamshedpur, 831001, India; Mukherjee, K., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Walunj, M., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Nanda, T., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Kumar, B.R., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	2018	10735623
836	Love wave propagation in vertical heterogeneous fiber-reinforced stratum imperfectly bonded to a micropolar elastic substrate	Kaur T., Kumar S., Singh A.K.	Kaur, T., Guru Nanak College, Budhlada, 151502, India; Kumar, S., School of Mathematics, Thapar Univ., Patiala, 147004, India; Singh, A.K., Dept. of Applied Mathematics, Indian School of Mines, Dhanbad, 826004, India	International Journal of Geomechanics	2018	15323641
837	Fuzzy rough set based energy management system for self-sustainable smart city	Sharma S., Dua A., Singh M., Kumar N., Prakash S.	Sharma, S., Centre for Energy Studies, IIT Delhi, New Delhi, India; Dua, A., Department of Computer Science and Information Systems, BITS Pilani, Pilani, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India	Renewable and Sustainable Energy Reviews	2018	13640321
838	Influence of gaseous fuel induction on the various engine characteristics of a dual fuel compression ignition engine: A review	Rosha P., Dhir A., Mohapatra S.K.	Rosha, P., School of Energy and Environment, Thapar University Patiala147004, India, Department of Mechanical Engineering, Thapar University Patiala147004, India; Dhir, A., School of Energy and Environment, Thapar University Patiala147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar University Patiala147004, India	Renewable and Sustainable Energy Reviews	2018	13640321
839	Electro-oxidation of Ofloxacin antibiotic by dimensionally stable Ti/RuO ₂ anode: Evaluation and mechanistic approach	Kaur R., Kushwaha J.P., Singh N.	Kaur, R., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Singh, N., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Chemosphere	2018	456535

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
840	An improved method for deceptive jamming against synthetic aperture radar	Joshi H.D., Kaur R., Singh A.K., Mishra A.	Joshi, H.D., Department of ECE, Thapar University, Patiala, India; Kaur, R., Department of ECE, Thapar University, Patiala, India; Singh, A.K., Department of ECE, Thapar University, Patiala, India; Mishra, A., Department of ECE, Thapar University, Patiala, India	International Journal of Microwave and Wireless Technologies	2018	17590787
841	Effect of guar gum and salt concentrations on drag reduction and shear degradation properties of turbulent flow of water in a pipe	Sokhal K.S., Gangacharyulu D., Bulasara V.K.	Sokhal, K.S., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	Carbohydrate Polymers	2018	1448617
842	Fabrication of spiral inter-digitated terminal (IDT) structure of electroplated gold on quartz substrate and progressive microplasma generation	Dutta S., Kapoor U., Kumar L., Bhardwaj A., Leeladhar, Gond V., Jain K.K., Bhan R.K.	Dutta, S., Solid State Physics Laboratory, DRDO, Lucknow Road, Timarpur, Delhi 110054, India; Kapoor, U., Electrical & Instrumentation Engineering Department, Thapar University, Patiala, Punjab 147004, India; Kumar, L., Electrical Engineering Department, Y.M.C.A. University of Science and Technology, Faridabad, 121006, India; Bhardwaj, A., Electrical Engineering Department, Y.M.C.A. University of Science and Technology, Faridabad, 121006, India; Leeladhar, Solid State Physics Laboratory, DRDO, Lucknow Road, Timarpur, Delhi 110054, India; Gond, V., Solid State Physics Laboratory, DRDO, Lucknow Road, Timarpur, Delhi 110054, India; Jain, K.K., Solid State Physics Laboratory, DRDO, Lucknow Road, Timarpur, Delhi 110054, India; Bhan, R.K., Solid State Physics Laboratory, DRDO, Lucknow Road, Timarpur, Delhi 110054, India	Journal of Materials Science: Materials in Electronics	2018	9574522
843	Network Selection in Wireless Heterogeneous Environment by C-P-F Hybrid Algorithm	Ahuja K., Singh B., Khanna R.	Ahuja, K., Department of Electronics and Communication Engineering, DAV Institute of Engineering and Technology, Jalandhar, Punjab, India; Singh, B., Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Khanna, R., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India	Wireless Personal Communications	2018	9296212
844	Zadoff-Chu Sequence Based Timing Offset Estimation for OFDM Systems	Kaushal Y., Joshi H.D., Singh A.K., Mishra A., Gupta B.	Kaushal, Y., Department of ECE, Thapar University, Patiala, India; Joshi, H.D., Department of ECE, Thapar University, Patiala, India; Singh, A.K., Department of ECE, Thapar University, Patiala, India; Mishra, A., Department of ECE, Thapar University, Patiala, India; Gupta, B., Department of ECE, CCET, Chandigarh, India	Wireless Personal Communications	2018	9296212
845	Braunite phase embedded Y2O3/MnO2-Al2O3-CaO-SiO2 glass ceramics and their properties	Bansal N., Kaur G., Singh K.	Bansal, N., School of Physics & Materials Science, Thapar University, Patiala, Punjab 147004, India; Kaur, G., School of Physics & Materials Science, Thapar University, Patiala, Punjab 147004, India; Singh, K., School of Physics & Materials Science, Thapar University, Patiala, Punjab 147004, India	Materials Research Bulletin	2018	255408
846	Correlation clustering methodologies and their fundamental results	Pandove D., Goel S., Rani R.	Pandove, D., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Goel, S., Department of Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, Uttar Pradesh, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Expert Systems	2018	2664720
847	Block-based image fusion using multi-scale analysis to enhance depth of field and dynamic range	Chaudhary V., Kumar V.	Chaudhary, V., ECED, Thapar University, Patiala, India; Kumar, V., ECED, Thapar University, Patiala, India	Signal, Image and Video Processing	2018	18631703
848	Optimal decision making for big data processing at edge-cloud environment: An SDN perspective	Auja G.S., Kumar N., Zomaya A.Y., Ranjan R.	Auja, G.S., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Zomaya, A.Y., School of Information Technologies, J12, University of Sydney, Sydney, NSW 2006, Australia; Ranjan, R., Department of Computer Science, Newcastle University, Newcastle upon Tyne, NE17RU, United Kingdom	IEEE Transactions on Industrial Informatics	2018	15513203
849	¹ H NMR assisted quantification of glycerol carbonate in the mixture of glycerol and glycerol carbonate	Kaur A., Prakash R., Ali A.	Kaur, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Prakash, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Talanta	2018	399140
850	Potential heat transfer fluids (Nanofluids) for direct volumetric absorption-based solar thermal systems	Khullar V., Bhalla V., Tyagi H.	Khullar, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab, 147001, India; Bhalla, V., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India	Journal of Thermal Science and Engineering Applications	2018	19485085
851	Forecasting daily global solar irradiance generation using machine learning	Sharma A., Kakkar A.	Sharma, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Kakkar, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India	Renewable and Sustainable Energy Reviews	2018	13640321
852	Generalized and group-based generalized intuitionistic fuzzy soft sets with applications in decision-making	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar University, Patiala, Punjab 147004, India; Arora, R., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	Applied Intelligence	2018	0924669X
853	Temperature-dependent modeling and performance analysis of coupled MLGMR interconnects	Rai M.K., Arora S., Kaushik B.K.	Rai, M.K., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Arora, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Kaushik, B.K., Department of Electronics and Communication Engineering, Indian Institute of Technology, Roorkee, 247667, India	International Journal of Circuit Theory and Applications	2018	989886

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
854	Some finite p -groups with central automorphism group of non-minimal order	Sharma M., Kalra H., Gumber D.	Sharma, M., Department of Mathematics, G. G. D. S. D. College, Chandigarh, India; Kalra, H., School of Mathematics, Thapar University, Patiala, India; Gumber, D., School of Mathematics, Thapar University, Patiala, India	Journal of Algebra and its Applications	2018	2194988
855	The influence of website functionality, drivers and perceived risk on customer satisfaction in online shopping: an emerging economy case	Tandon U., Kiran R., Sah A.N.	Tandon, U., School of Humanities and Social Sciences (SHSS), Thapar University, P.O. Box 32, Patiala, 147004, India; Kiran, R., School of Humanities and Social Sciences (SHSS), Thapar University, P.O. Box 32, Patiala, 147004, India; Sah, A.N., School of Humanities and Social Sciences (SHSS), Thapar University, P.O. Box 32, Patiala, 147004, India	Information Systems and e-Business Management	2018	16179846
856	Production of producer gas from sugarcane bagasse and carpentry waste and its sustainable use in a dual fuel CI engine: A performance, emission, and noise investigation	Singh H., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar University, Patiala, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar University, Patiala, India	Journal of the Energy Institute	2018	17439671
857	PAT: A precise reward scheme achieving anonymity and traceability for crowdcomputing in public clouds	Wang H., He D., Sun Y., Kumar N., Choo K.-K.R.	Wang, H., School of Computer Science and Technology, Nanjing University of Posts and Telecommunications, Nanjing, China; He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, China; Sun, Y., Jiangsu High Technology Research Key Laboratory for Wireless Sensor Network (NUPT), Nanjing, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, TX 78249, United States, School of Information Technology and Mathematical Sciences, University of South Australia, Adelaide, SA 5001, Australia, School of Computer Science, China University of Geosciences, Wuhan, 430074, China	Future Generation Computer Systems	2018	0167739X
858	An investigation of double-glass-covered trapezoidal salt-gradient solar pond coupled with reflector	Dhindsa G.S., Mittal M.K.	Dhindsa, G.S., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Mittal, M.K., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India	International Journal of Green Energy	2018	15435075
859	Processing of polyethylene terephthalate fiber reinforcement to improve compatibility with constituents of GFRP nanocomposites	Singh K., Nanda T., Mehta R.	Singh, K., Mechanical Engineering Department, Thapar University, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar University, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar University, Patiala, India	Materials and Manufacturing Processes	2018	10426914
860	Critical temperature estimation of bulk and confined atomic fluid using vapour-liquid interfacial free energy	Singh S.K.	Singh, S.K., Department of Chemical Engineering, Thapar University, Patiala, India	Molecular Simulation	2018	8927022
861	Recycle option for metallurgical by-product (Spent Foundry Sand) in green concrete for sustainable construction	Siddique R., Singh G., Singh M.	Siddique, R., Civil Engineering Department, Thapar University, Patiala, 147004, India; Singh, G., University College of Engineering (UCOE), Punjabi University, Patiala, India; Singh, M., Additional Superintending Engineer/ Civil, Punjab State Power Corporation Limited, Patiala, India	Journal of Cleaner Production	2018	9596526
862	Fuel properties of blend and biodiesel generated from acid oil using whole cell biocatalyst	Sharma A., Melo J.S., Tejo Prakash N., Prakash R.	Sharma, A., Department of Biotechnology, Thapar University, Patiala, India; Melo, J.S., NA&BTD, Bhabha Atomic Research Centre, Mumbai, India; Tejo Prakash, N., School of Energy & Environment, Thapar University, Patiala, India; Prakash, R., School of Chemistry & Biochemistry, Thapar University, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2018	15567036
863	Kinetic Isotope Effect Determination Probes the Spin of the Transition State, Its Stereochemistry, and Its Ligand Sphere in Hydrogen Abstraction Reactions of Oxoiron(IV) Complexes	Mandal D., Mallick D., Shaik S.	Mandal, D., Institute of Chemistry, Hebrew University of Jerusalem, Givat Ram Campus, Jerusalem, 91904, Israel; Mallick, D., Institute of Chemistry, Hebrew University of Jerusalem, Givat Ram Campus, Jerusalem, 91904, Israel, Computational Toxicology Facility, CSIR-Indian Institute of Toxicology Research, Lucknow, 226001, India; Shaik, S., Institute of Chemistry, Hebrew University of Jerusalem, Givat Ram Campus, Jerusalem, 91904, Israel, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India	Accounts of Chemical Research	2018	14842
864	Parametric optimization for the treatment of human urine metabolite, creatinine using electro-oxidation	Singla J., Verma A., Sangal V.K.	Singla, J., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Journal of Electroanalytical Chemistry	2018	15726657
865	In-situ dual effect studies using novel Fe-TiO2 composite for the pilot-plant degradation of pentoxifylline	Bansal P., Verma A.	Bansal, P., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India	Chemical Engineering Journal	2018	13858947

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
866	Influence of nutrient components of media on structural properties of concrete during biocementation	Joshi S., Goyal S., Reddy M.S.	Joshi, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147004, India; Goyal, S., Department of Civil Engineering, Thapar University, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar University, Patiala, Punjab 147004, India	Construction and Building Materials	2018	9500618
867	An asymmetric synthesis of ((3R,6R)-6-methylpiperidine-3-yl)methanol; a piperidine core unit of potent dual orexin receptor antagonist MK-6096	Kaur A., Prakash R., Pandey S.K.	Kaur, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India; Pandey, S.K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147001, India, Department of Chemistry, Institute of Science, Banaras Hindu University (BHU), Varanasi, 221005, India	ChemistrySelect	2018	23656549
868	A coalitional game-based integrated framework for optimal power allocation in multirelay cooperative environment	Lamba A.K., Kumar R., Sharma S.	Lamba, A.K., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Kumar, R., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Sharma, S., Electronics and Communication Engineering Department, Thapar University, Patiala, India	International Journal of Communication Systems	2018	10745351
869	Efficient revocable ID-based encryption with cloud revocation server	Jia X., Kumar N., Choo K.-K.R., He D.	Jia, X., School of Mathematics and Statistics, South-Central University for Nationalities, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, United States; He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Cryptography and Information Security, Guilin University of Electronic Technology, Guilin, China	International Journal of Communication Systems	2018	10745351
870	Fraudulent Firm Classification: A Case Study of an External Audit	Hooda N., Bawa S., Rana P.S.	Hooda, N., Computer Science and Engineering Department, Thapar University, Patiala, India; Bawa, S., Computer Science and Engineering Department, Thapar University, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar University, Patiala, India	Applied Artificial Intelligence	2018	8839514
871	Energy efficiency analysis of linear receivers for large antenna system in fading channels	Khetarpal A., Khanna R.	Khetarpal, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Khanna, R., Electronics and Communication Engineering Department, Thapar University, Patiala, India	International Journal of Electronics Letters	2018	21681724
872	Comparative analysis of classification based algorithms for diabetes diagnosis using iris images	Samant P., Agarwal R.	Samant, P., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, Punjab, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, Punjab, India	Journal of Medical Engineering and Technology	2018	3091902
873	Autonomic point cloud-based surface reconstruction using SVR	Jain K., Pannu H.S.	Jain, K., Computer Science and Engineering, Thapar University, Patiala, India; Pannu, H.S., Computer Science and Engineering, Thapar University, Patiala, India	Imaging Science Journal	2018	13682199
874	High-order IMEX-WENO finite volume approximation for nonlinear age-structured population model	Kumar S., Singh P.	Kumar, S., School of Mathematics, Thapar University, Patiala, India; Singh, P., School of Mathematics, Thapar University, Patiala, India	International Journal of Computer Mathematics	2018	207160
875	Development of magnetorheological fluid-based process for finishing of ferromagnetic cylindrical workpiece	Bedi T.S., Singh A.K.	Bedi, T.S., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, India	Machining Science and Technology	2018	10910344
876	Processing of Ni-WC-8Co MMC casting through microwave melting	Singh S., Gupta D., Jain V.	Singh, S., Mechanical Engineering Department, The Northcap University, Gurgaon, Haryana, India; Gupta, D., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Jain, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India	Materials and Manufacturing Processes	2018	10426914
877	Coding, evaluation, comparison, ranking and optimal selection of nanoparticles with heat transfer fluids for thermal systems	Sandhu H., Gangacharyulu D., Agrawal V.P.	Sandhu, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology University, Patiala, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar Institute of Engineering and Technology University, Patiala, India; Agrawal, V.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology University, Patiala, India	Particulate Science and Technology	2018	2726351
878	BALL CONVERGENCE FOR AN AITKEN-NEWTON METHOD	Argyros I.K., Kansal M., Kanwar V.	Argyros, I.K., Department of Mathematical Sciences, Cameron University, Lawton, OK 73505, United States; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kanwar, V., University Institute of Engineering and Technology, Panjab University, Chandigarh, 160 014, India	Journal of Numerical Analysis and Approximation Theory	2018	24576794
879	Comparison of multiclass and hierarchical CAC design for benign and malignant hepatic tumors	Manth N., Kriti, Virmani J.	Manth, N., Jaypee University of Information Technology, Himachal Pradesh, Waknaghat, India; Kriti, Thapar Institute of Engineering and Technology, Patiala, India; Virmani, J., CSIR-CSIO, Chandigarh, India	U-Healthcare Monitoring Systems: Volume 1: Design and Applications	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
880	A genetic algorithm-based metaheuristic approach to customize a computer-aided classification system for enhanced screen film mammograms	Kaur H., Virmani J., Kriti, Thakur S.	Kaur, H., Thapar Institute of Engineering and Technology, Patiala, India; Virmani, J., CSIR-CSIO, Chandigarh, India; Kriti, Thapar Institute of Engineering and Technology, Patiala, India; Thakur, S., Kamla Nehru Hospital, Shimla, India	U-Healthcare Monitoring Systems: Volume 1: Design and Applications	2018	
881	Comprehensive survey of 3D image steganography techniques	Girdhar A., Kumar V.	Girdhar, A., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India	IET Image Processing	2018	17519659
882	Community-level solar thermal systems	Bhalla V., Khullar V., Tyagi H.	Bhalla, V., Department of Mechanical Engineering, Indian Institute of Technology Ropar, India; Khullar, V., Mechanical Engineering Department, Thapar University, India; Tyagi, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, India	Wind and Solar Based Energy Systems for Communities	2018	
883	Reliability based multi-objective optimization of concrete mix parameters using NSGA II	Sharma M., Aggarwal R., Sharma R., Kumar M.	Sharma, M., School of Mathematics, Thapar Institute of Eng and Technology, Patiala, India; Aggarwal, R., Dept of Mathematics, M.L.N. College, Yamunanagar, Haryana, India; Sharma, R., Dept of Computer Science, Thapar Institute of Eng and Technology, Patiala, India; Kumar, M., Dept of Civil Engineering, Thapar Institute of Eng and Technology, Patiala, India	Proceedings of International Structural Engineering and Construction	2018	2644108X
884	Design of flexible pavement using marble dust in Subgrade soil	Moudgil S., Pathak R.	Moudgil, S., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pathak, R., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of International Structural Engineering and Construction	2018	2644108X
885	Calibration of rutting and roughness distress models of HDM-4 for developing pavement maintenance management	Singh A., Chopra T.	Singh, A., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chopra, T., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of International Structural Engineering and Construction	2018	2644108X
886	Retrofitting of rc beams using ultra high performance fiber reinforced concrete	Garg V., Bansal P.P., Sharma R.	Garg, V., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, P.P., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of International Structural Engineering and Construction	2018	2644108X
887	On $\alpha\beta$ -Contractive and Admissible Mappings	Chandok S., Ansari A.H., Došenović T., Radenović S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Ansari, A.H., Department of Mathematics, Islamic Azad University, Karaj Branch, Karaj, Iran; Došenović, T., Faculty of Technology, University of Novi Sad, Bulevar cara Lazara 1, Serbia; Radenović, S., Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, Beograd, 11120, Serbia, Department of Mathematics, University of Novi Pazar, Novi Pazar, Serbia	Miskolc Mathematical Notes	2018	17872405
888	Performance Evaluation of Two ANFIS Models for Predicting Water Quality Index of River Satluj (India)	Tiwari S., Babbar R., Kaur G.	Tiwari, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Advances in Civil Engineering	2018	16878086
889	Effects of glass fibres on the shear strength of sandy soil	Chib V.S., Chopra T., Pathak R.	Chib, V.S., Department of Civil Engineering, Thapar University, India; Chopra, T., Department of Civil Engineering, Thapar University, India; Pathak, R., Department of Civil Engineering, Thapar University, India	11th International Conference on Geosynthetics 2018, ICG 2018	2018	
890	Bioactive glasses in gene regulation and proliferation	Kaur G., Kumar V., Pickrell G.R., Mauro J.C., Lin Y., Arya S.K.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India; Kumar, V., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Pickrell, G.R., Department of Materials Science and Engineering, Virginia Tech, Blacksburg, VA, United States; Mauro, J.C., Department of Materials Science and Engineering, Pennsylvania State University, University Park, PA, United States; Lin, Y., Department of Materials Science and Engineering, Pennsylvania State University, University Park, PA, United States; Arya, S.K., Department of Applied Sciences, ABES Institute of Technology, Ghaziabad, UP, India	Biomedical, Therapeutic and Clinical Applications of Bioactive Glasses	2018	
891	Biomedical, therapeutic and clinical applications of bioactive glasses	Kaur G.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India	Biomedical, Therapeutic and Clinical Applications of Bioactive Glasses	2018	
892	Estimation of probability density function of digital substrate noise in mixed signal system	Sharma M., Singh P.K., Singh T., Sharma S.	Sharma, M., ECED, SRM University Delhi-NCR, Sonapat, India; Singh, P.K., ECED, SRM University Delhi-NCR, Sonapat, India; Singh, T., ECED, SRM University Delhi-NCR, Sonapat, India; Sharma, S., ECED, Thapar University, Patiala, Punjab, India	Lecture Notes on Data Engineering and Communications Technologies	2018	23674512
893	Silica Nanospheres	Kumar V., Kaur G., Pickrell G.R.	Kumar, V., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India; Pickrell, G.R., Department of Materials Science and Engineering, Virginia Tech, Blacksburg, VA, United States	Biomedical, Therapeutic and Clinical Applications of Bioactive Glasses	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
894	Characterization of Steel Fiber Reinforced Pervious Concrete for Applications in Low Volume Traffic Roads	Avishreshth, Bansal P.P., Chopra T.	Avishreshth, Civil Engineering Dept., Quantum School of Technology, PO Box 247167 Uttarakhand, Roorkee, India; Bansal, P.P., Civil Engineering Dept., Thapar Univ., PO Box 147004 Punjab, Patiala, India; Chopra, T., Civil Engineering Dept., Thapar Univ., PO Box 147004 Punjab, Patiala, India	Urbanization Challenges in Emerging Economies: Resilience and Sustainability of Infrastructure - Selected Papers from the ASCE India Conference 2017	2018	
895	A hybrid CAD system design for liver diseases using clinical and radiological data	Bansal S., Chhabra G., Sarat Chandra B., Kriti, Virmani J.	Bansal, S., Indraprastha Institute of Information Technology, Delhi, India; Chhabra, G., Jaypee University of Information Technology, Waknaghat, India; Sarat Chandra, B., Jaypee University of Information Technology, Waknaghat, India; Kriti, Thapar Institute of Engineering and Technology, Patiala, India; Virmani, J., CSIR-CSIO, Chandigarh, India	U-Healthcare Monitoring Systems: Volume 1: Design and Applications	2018	
896	Migrating from data mining to big data mining	Bathla G., Aggarwal H., Rani R.	Bathla, G., Punjabi University Patiala, India; Aggarwal, H., Punjabi University Patiala, India; Rani, R., Thapar University Patiala, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
897	Comparative analysis of ICI-self-cancellation techniques in OFDM mobile communication system	Kaur T., Sahni P., Singla P., Kaur S.	Kaur, T., Department of Electronics and communication Engineering, Thapar University, Patiala, Punjab, India; Sahni, P., Department of Electronics and communication Engineering, Chandigarh Engineering CollegePunjab, India; Singla, P., Department of Electronics and communication Engineering, Chandigarh Engineering CollegePunjab, India; Kaur, S., Department of Electronics and communication Engineering, Chandigarh Engineering CollegePunjab, India	Journal of Advanced Research in Dynamical and Control Systems	2018	1943023X
898	Design, Development and Application of Nanocoatings	Singh A., Mittal S., Mudgal D., Gupta P.	Singh, A., Department of Mechanical and Automation Engineering, A.S.E.T, Amity University, Uttar Pradesh, Noida, India; Mittal, S., Department of Mechanical and Automation Engineering, A.S.E.T, Amity University, Uttar Pradesh, Noida, India; Mudgal, D., Department of Mechanical Engineering, Thapar University, Punjab, Patiala, India; Gupta, P., Department of Mechanical and Automation Engineering, A.S.E.T, Amity University, Uttar Pradesh, Noida, India	Advanced Structured Materials	2018	18698433
899	Bioactive Glasses for Cancer Therapy	Lin Y., Mauro J.C., Kaur G.	Lin, Y., Department of Materials Science and Engineering, Pennsylvania State University, University Park, PA, United States; Mauro, J.C., Department of Materials Science and Engineering, Pennsylvania State University, University Park, PA, United States; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India	Biomedical, Therapeutic and Clinical Applications of Bioactive Glasses	2018	
900	Adaptability of various mobility models for flying adhoc networks—A review	Singh K., Verma A.K.	Singh, K., Department of Computer Science Engineering, Mobile Computing and Communication (MC2) Research Group, Thapar University, Patiala, India; Verma, A.K., Department of Computer Science Engineering, Mobile Computing and Communication (MC2) Research Group, Thapar University, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2018	23674512
901	Carbon dioxide sequestration on biocement-based composites	Reddy M.S., Joshi S.	Reddy, M.S., Thapar Institute of Engineering and Technology, Patiala, India; Joshi, S., Thapar Institute of Engineering and Technology, Patiala, India	Carbon Dioxide Sequestration in Cementitious Construction Materials	2018	
902	Strengthening of RCC Beams in Shear by Using SBR Polymer-Modified Ferrocement Jacketing Technique	Ghai R., Bansal P.P., Kumar M.	Ghai, R., Department of Civil Engineering, Thapar University, Punjab, Patiala, 147004, India; Bansal, P.P., Department of Civil Engineering, Thapar University, Punjab, Patiala, 147004, India; Kumar, M., Department of Civil Engineering, Thapar University, Punjab, Patiala, 147004, India	Advances in Civil Engineering	2018	16878086
903	Adaptive error control technique for cluster-based underwater wireless sensor networks	Goyal N., Dave M., Verma A.K.	Goyal, N., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Dave, M., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Lecture Notes on Data Engineering and Communications Technologies	2018	23674512
904	Parametric study for the treatment of simulated cetirizine wastewater using electrochemical methods: Optimization and cost analysis	Agnihotri S., Kaur P., Sangal V.K., Garg A., Verma A.	Agnihotri, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Garg, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Journal of the Electrochemical Society	2018	134651
905	Data prediction of optical head tracking using Self Healing Neural Model for head Mounted Display	Kataria A., Ghosh S., Karar V.	Kataria, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Karar, V., Optics Devices and Systems, CSIR-CSIO, Chandigarh, 160030, India	Journal of Scientific and Industrial Research	2018	224456
906	Noise barriers as an abatement strategy	Singh D., Nigam S.P., Agrawal V.P., Kumar M.	Singh, D., Mechanical Engineering Department, Thapar Institute, of Engg and Technology, Patiala, India; Nigam, S.P., Mechanical Engineering Department, North Cap University, Gurugram, India; Agrawal, V.P., Mechanical Engineering Department, Thapar Institute, of Engg and Technology, Patiala, India; Kumar, M., Civil Engineering Department, Thapar Institute of Engg and Technology, Patiala, India	Journal of Scientific and Industrial Research	2018	224456
907	Streamed data analysis using adaptable bloom filter	Singh A., Batra S.	Singh, A., Department of Computer Science and Engineering, Thapar university, Patiala, Punjab, India; Batra, S., Department of Computer Science and Engineering, Thapar university, Patiala, Punjab, India	Computing and Informatics	2018	13359150

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
908	RoVAN: A Rough Set-based Scheme for Cluster Head Selection in Vehicular Ad-hoc Networks	Dua A., Sharma P., Ganju S., Jindal A., Aujla G.S., Kumar N., Rodrigues J.J.P.C.	Dua, A., Birla Institute of Technology and Science (BITS Pilani), India; Sharma, P., Birla Institute of Technology and Science (BITS Pilani), India; Ganju, S., Birla Institute of Technology and Science (BITS Pilani), India; Jindal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Brazil, Instituto de TelecomunicacOes, Portugal, University of Fortaleza (UNIFOR), Ceara, Brazil	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
909	Beyond self to society and sustainability: Lesson in practical spirituality from sikhism	Ghuman K., Singh M.P.	Ghuman, K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, (Deemed to be University), Thapar University, Dera Bassi campus, Patiala, Punjab, India; Singh, M.P., Shiromani Akali Dal (SAD), Chandigarh, India	Practical Spirituality and Human Development: Transformations in Religions and Societies	2018	
910	An Internet of Things Tracking System Approach Based on LoRa Protocol	Da Silva W.R., Oliveira L., Kumar N., Rabelo R.A.L., Marins C.N.M., Rodrigues J.J.P.C.	Da Silva, W.R., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil; Oliveira, L., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Rabelo, R.A.L., Federal University of Piauí, Teresina-PI, Brazil; Marins, C.N.M., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil, University of Fortaleza (UNIFOR), Fortaleza-CE, Brazil, Instituto de Telecomunicações, Portugal	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
911	DRUMS: Demand Response Management in a Smart City Using Deep Learning and SVR	Jindal A., Aujla G.S., Kumar N., Prodan R., Obaidat M.S.	Jindal, A., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Aujla, G.S., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India, Computer Science and Engineering Department, Chandigarh University, Mohali (Punjab), India; Kumar, N., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Prodan, R., University of Klagenfurt, Institute of Information Technology, Austria; Obaidat, M.S., University of Jordan, King Abdullah II School of Information Technology, Jordan	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
912	QAIR: Quality Assessment Scheme for Information Retrieval in IoT Infrastructures	Makkar A., Kumar N., Obaidat M.S., Hsiao K.-F.	Makkar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Obaidat, M.S., King Abdullah II School of Information Technology, University of Jordan, Amman, 11942, Jordan; Hsiao, K.-F., Ming-Chuan University, Taiwan	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
913	Adaptive Skip Graph Framework for Peer-to-Peer Networks: Search Time Complexity Analysis	Goyal A., Batra S., Kumar N., Aujla G.S., Obaidat M.S.	Goyal, A., Computer Science and Engineering Department, Indian Institute of Technology, Bombay, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Kumar, N., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Obaidat, M.S., ECE Department, Nazarbayev University, Astana, Kazakhstan, King Abdullah II School of Information Technology, University of Jordan, Jordan	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
914	Demand Response Management Using Lattice-Based Cryptography in Smart Grids	Desai S.K., Dua A., Kumar N., Das A.K., Rodrigues J.J.P.C.	Desai, S.K., Department of Computer Science and Information Systems, BITS Pilani, Pilani, India; Dua, A., Computer Science and Engineering Department, Thapar University, Patiala (Punjab), India; Kumar, N., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, India; Das, A.K., National Institute of Telecommunications (Inatel), Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicac Oes, University of Fortaleza (UNIFOR), Portugal	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
915	CR-NOMA Based Interference Mitigation Scheme for 5G Femtocells Users	Budhiraja I., Tyagi S., Tanwar S., Kumar N., Guizani M.	Budhiraja, I., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala (Punjab), India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala (Punjab), India; Tanwar, S., Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala (Punjab), India; Guizani, M., Electrical and Computer Engineering, University of Idaho, United States	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
916	LEASE: Lattice and ECC-Based Authentication and Integrity Verification Scheme in E-Healthcare	Dua A., Chaudhary R., Singh Aujla G., Jindal A., Kumar N., Rodrigues J.J.P.C.	Dua, A., Department of Computer Science and Information Systems, BITS Pilani, Pilani, Rajasthan, India; Chaudhary, R., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Singh Aujla, G., Computer Science Engineering Department, Chandigarh University, Gharuan, Punjab, India; Jindal, A., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Kumar, N., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Brazil	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	
917	FS2RNN: Feature Selection Scheme for Web Spam Detection Using Recurrent Neural Networks	Makkar A., Obaidat M.S., Kumar N.	Makkar, A., Computer Science and Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Obaidat, M.S., ECE Department, Nazarbayev University, Astana, Kazakhstan, King Abdullah II School of Information Technology, University of Jordan, Amman, 11942, Jordan; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India	2018 IEEE Global Communications Conference, GLOBECOM 2018 - Proceedings	2018	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
918	A Proposed Pharmacogenetic Solution for IT-Based Health Care	Toor R., Chana I.	Toor, R., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Chana, I., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India	Lecture Notes in Networks and Systems	2018	23673370
919	Numerical study of nanofluid-based solar collector for humidification-dehumidification (HDH) desalination	Garg K., Khullar V., Das S.K., Tyagi H.	Garg, K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Das, S.K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India	ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)	2018	
920	FingerPrint based duplicate detection in streamed data	Singh A., Batra S.	Singh, A., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Batra, S., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Computing and Informatics	2018	13359150
921	Laboratory analysis of Marshall parameters of dense bituminous macadam mix using waste materials	Bansal S., Misra A.K., Chopra T., Bajpai P.	Bansal, S., Department of Civil and Environmental Engineering, NorthCap University, Gurugram, 122017, India; Misra, A.K., Department of Geology, School of Physical Sciences, Sikkim University (A Central University), 6th mile, Samdur, Tadong, Gangtok, Sikkim, 737102, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bajpai, P., Global Realty, Gurugram, India	International Journal of Environmental Technology and Management	2018	14662132
922	Reduction of switching transients in CC/CV mode of electric vehicles battery charging	Arora S., Singh M.	Arora, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	IET Conference Publications	2018	
923	Properties and characteristics of various materials used as Biofuels: A review	Goga G., Chauhan B.S., Mahla S.K., Cho H.M., Dhir A., Lim H.C.	Goga, G., Lovely Professional University, Punjab, India; Chauhan, B.S., School of Mechanical Engineering, Lovely Professional University, Punjab, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Hoshiarpur, Punjab, India; Cho, H.M., Department of Mechanical Engineering, Kongju National University, South Korea; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Lim, H.C., School of Mechanical Engineering, Pusan National University, South Korea	Materials Today: Proceedings	2018	22147853
924	On the development and characterization of microwave processed Ni + 30% SiC based composite clads	Kaushal S., Singh D., Gupta D., Bhowmick H.	Kaushal, S., Thapar University, Patiala, 147004, India; Singh, D., Thapar University, Patiala, 147004, India; Gupta, D., Thapar University, Patiala, 147004, India; Bhowmick, H., Thapar University, Patiala, 147004, India	Materials Today: Proceedings	2018	22147853
925	Numerical modelling of thermal energy storage using phase change materials: Energy efficient buildings application	Salvi S.S., Garg K., Bhalla V., Khullar V., Tyagi H.	Salvi, S.S., School of Mechanical, Materials and Energy Engineering Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Garg, K., School of Mechanical, Materials and Energy Engineering Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Bhalla, V., School of Mechanical, Materials and Energy Engineering Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Khullar, V., Mechanical Engineering Department Thapar University, Patiala, Punjab, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering Indian Institute of Technology Ropar, Rupnagar, Punjab, India	International Conference on Computational Methods for Thermal Problems	2018	23055995
926	Thermal performance of direct absorption solar collector based single stage flashing desalination system	Garg K., Salvi S.S., Bhalla V., Khullar V., Das S.K., Tyagi H.	Garg, K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Salvi, S.S., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Bhalla, V., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Khullar, V., Mechanical Engineering Department, Thapar University, India; Das, S.K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, India	International Conference on Computational Methods for Thermal Problems	2018	23055995
927	Ensemble technique based on supervised and unsupervised learning approach for intrusion detection	Kaur S., Garg I.	Kaur, S., Thapar Institute of Engineering and Technology, Patiala, India; Garg, I., Thapar Institute of Engineering and Technology, Patiala, India	Communications in Computer and Information Science	2018	18650929
928	Extreme gradient boosting based tuning for classification in intrusion detection systems	Bansal A., Kaur S.	Bansal, A., CSED, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, S., CSED, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Communications in Computer and Information Science	2018	18650929
929	An efficient hybrid approach using misuse detection and genetic algorithm for network intrusion detection	Rajpal R., Kaur S.	Rajpal, R., CSED, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, S., CSED, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Communications in Computer and Information Science	2018	18650929
930	Pdd algorithm for balancing medical data	Kalra K., Goyal R., Kaur S., Kumar P.	Kalra, K., Department of Computer Science and Engineering, TIET, Patiala, 147001, India; Goyal, R., Department of Computer Science and Engineering, TIET, Patiala, 147001, India; Kaur, S., Department of Computer Science and Engineering, TIET, Patiala, 147001, India; Kumar, P., Department of Computer Science and Engineering, TIET, Patiala, 147001, India	Communications in Computer and Information Science	2018	18650929

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
931	Physical model reduction of a parallel and hybrid manipulator using eigenvalue sensitivity method	Arora R., Bera T.K.	Arora, R., Mechanical Engineering Department, Thapar University Patiala, Patiala, India; Bera, T.K., Mechanical Engineering Department, Thapar University Patiala, Patiala, India	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	2018	22286187
932	Organizational justice and its relationship with organizational citizenship behavior of non-academic staff members at government Universities in North of Jordan	Ajlouni W.M.E., Kaur G., Al-Gharaibeh S.	Ajlouni, W.M.E., Thapar Institute of Engineering and Technology, Deemed University, India; Kaur, G., Thapar Institute of Engineering and Technology, Deemed University, India; Al-Gharaibeh, S., Abbulrahman Bin Faisal University, Saudi Arabia	Academy of Strategic Management Journal	2018	15441458
933	The role of marketing intelligence in brand positioning: Perspective of marketing professionals	Kanwal S., Samalia H.V., Singh G.	Kanwal, S., Thapar University, India; Samalia, H.V., Rajiv Gandhi Indian Institute of Management, India; Singh, G., Thapar University, India	Brand Culture and Identity: Concepts, Methodologies, Tools, and Applications	2018	
934	Branding and brand management: Case of Amul	Sharma A.	Sharma, A., Thapar University, Patiala, India	Brand Culture and Identity: Concepts, Methodologies, Tools, and Applications	2018	
935	Pairwise error probability analysis of low density parity check coded asynchronous distributed space time block codes	Sood V.V., Sharma S., Khanna R.	Sood, V.V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Elektronika ir Elektrotechnika	2018	13921215
936	IEEE Access Special Section Editorial: Research Challenges and Opportunities in Security and Privacy of Blockchain Technologies	He D., Choo K.-K.R., Kumar N., Castiglione A.	He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States; Kumar, N., Department of Computer Science Engineering, Thapar University, Patiala, 147003, India; Castiglione, A., Department of Computer Science, University of Salerno, Fisciano, 84084, Italy	IEEE Access	2018	21693536
937	An Investigation on Leaching Characteristics for Indian Bottom Ash	Singh G., Kumar S., Mohapatra S.K.	Singh, G., Mechanical Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Mechanical Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar University, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
938	Effect of Natural Surfactant on the Rheological Characteristics of Heavy Crude Oil	Kumar P., Kumar S., Singh J.	Kumar, P., Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Thapar University, Patiala, Punjab, 147004, India; Singh, J., Thapar University, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
939	Optimization of Erosion Wear Influencing Parameters of HVOF Sprayed Pumping Material for Coal-Water Slurry	Singh J., Kumar S., Mohapatra S.K.	Singh, J., Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Thapar University, Patiala, Punjab, 147004, India; Mohapatra, S.K., Thapar University, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
940	Comparative study of different sarcasm detection algorithms based on behavioral approach	Ahuja R., Bansal S., Prakash S., Venkataraman K., Banga A.	Ahuja, R., Jaypee Institute of Information Technology, Noida, 201301, India; Bansal, S., Jaypee Institute of Information Technology, Noida, 201301, India; Prakash, S., Jaypee Institute of Information Technology, Noida, 201301, India; Venkataraman, K., Jaypee Institute of Information Technology, Noida, 201301, India; Banga, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Procedia Computer Science	2018	18770509
941	Omega automata and its classes	Singh N., Kumar A.	Singh, N., Thapar Institute of Engineering and Technology, Patiala, 147 003, India; Kumar, A., Thapar Institute of Engineering and Technology, Patiala, 147 003, India	Current Science	2018	113891
942	Stereostatum corticioides (Berk. & Broome) H. Magn. rust on Phyllostachys bambusoides Siebold & Zucc. from Arunachal Pradesh, India	Tangjang S., Reddy M.S., Suryanarayanan T.S., Taka T.	Tangjang, S., Department of Botany, Rajiv Gandhi University, Rono Hills, 791 112, India; Reddy, M.S., Department of Biotechnology, Thapar University, Patiala, 147 004, India; Suryanarayanan, T.S., Vivekananda Institute of Tropical Mycology, Ramakrishna Mission Vidyapith, Chennai, 600 004, India; Taka, T., Department of Botany, Rajiv Gandhi University, Rono Hills, 791 112, India	Current Science	2018	113891
943	A new illumination normalization framework via homomorphic filtering and reflectance ratio in DWT domain for face recognition	Yadav J., Rajpal N., Mehta R.	Yadav, J., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka sector 16C, New Delhi, India; Rajpal, N., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka sector 16C, New Delhi, India; Mehta, R., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Intelligent and Fuzzy Systems	2018	10641246
944	Mehar ranking method for comparing connection numbers and its application in decision making	Singh A., Kumar A., Appadoo S.S.	Singh, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), P.O Box 32, Patiala, Punjab, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), P.O Box 32, Patiala, Punjab, 147004, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, 630 Drake Centre - 181 Freedman Crescent, Winnipeg, MB, Canada	Journal of Intelligent and Fuzzy Systems	2018	10641246

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
945	HEAP: An Efficient and Fault-Tolerant Authentication and Key Exchange Protocol for Hadoop-Assisted Big Data Platform	Chattaraj D., Sarma M., Das A.K., Kumar N., Rodrigues J.J.P.C., Park Y.	Chattaraj, D., Subir Chowdhury School of Quality and Reliability, IIT Kharagpur, Kharagpur, 721 302, India; Sarma, M., Subir Chowdhury School of Quality and Reliability, IIT Kharagpur, Kharagpur, 721 302, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Rodrigues, J.J.P.C., National Institute of Telecommunications, Santa Rita do Sapucaí, 37540-000, Brazil, Instituto de Telecomunicações, Aveiro, 1049-001, Portugal, University of Fortaleza, Fortaleza, 60811-905, Brazil; Park, Y., School of Electronics Engineering, Kyungpook National University, Daegu, 41566, South Korea	IEEE Access	2018	21693536
946	Improving recommendation techniques by deep learning and large scale graph partitioning	Bathla G., Aggarwal H., Rani R.	Bathla, G., Department of Computer Engineering, Punjabi University, Patiala, India; Aggarwal, H., Department of Computer Engineering, Punjabi University, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, India	International Journal of Advanced Computer Science and Applications	2018	2158107X
947	Obesity prediction using ensemble machine learning approaches	Jindal K., Baliyan N., Rana P.S.	Jindal, K., Computer Science and Engineering Department, Thapar University, Patiala, India; Baliyan, N., Computer Science and Engineering Department, Thapar University, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2018	21945357
948	Self-agglomerated crystalline needles harnessing ES IPT and AIEE features for the 'turn-on' fluorescence detection of Al3+ ions	Puri P., Kumar G., Paul K., Luxami V.	Puri, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	New Journal of Chemistry	2018	11440546
949	A concise asymmetric synthesis of (-)-trans -aerangis lactone	Pandey R., Prakash R.	Pandey, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	Canadian Journal of Chemistry	2018	84042
950	Role of nanofluids in cooling solar photovoltaic cell to enhance overall efficiency	Suresh A.K., Khurana S., Nandan G., Dwivedi G., Kumar S.	Suresh, A.K., ME Department, Amity University, Uttar Pradesh, Noida, India; Khurana, S., ME Department, Amity University, Uttar Pradesh, Noida, India; Nandan, G., ME Department, Amity University, Uttar Pradesh, Noida, India; Dwivedi, G., ME Department, Amity University, Uttar Pradesh, Noida, India; Kumar, S., ME Department, Thapar University, Patiala, Punjab, India	Materials Today: Proceedings	2018	22147853
951	On central tendencies of the parts in certain restricted partitions	Goyal M., Rana M.	Goyal, M., I.K. Gujral Punjab Technical University Jalandhar, Department of Mathematical Sciences, Main Campus, Kapurthala, 144603, India; Rana, M., Thapar University School of Mathematics, Patiala, 147001, India	Mathematical Reports	2018	15823067
952	Intelligent face recognition system for visually impaired	Goyal R., Kalra K., Kumar P., Kaur S.	Goyal, R., Computer Science and Engineering Department (CSED), Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kalra, K., Computer Science and Engineering Department (CSED), Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kumar, P., Computer Science and Engineering Department (CSED), Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kaur, S., Computer Science and Engineering Department (CSED), Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Communications in Computer and Information Science	2018	18650929
953	Hand gesture recognition using Gaussian threshold and different SVM kernels	Sharma S., Modi S., Rana P.S., Bhattacharya J.	Sharma, S., Chandigarh University, Mohali, Punjab Gharuan, India; Modi, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, P.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhattacharya, J., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Communications in Computer and Information Science	2018	18650929
954	Study on drivers of online shopping and significance of cash-on-delivery mode of payment on behavioural intention	Tandon U., Kiran R.	Tandon, U., School of Humanities and Social Sciences (SHSS), Thapar University, P.O. Box 32, Patiala, 147004, India; Kiran, R., School of Humanities and Social Sciences (SHSS), Thapar University, P.O. Box 32, Patiala, 147004, India	International Journal of Electronic Business	2018	14706067
955	Design of p-type transparent conducting oxides Sn2GeO4 by an ab initio evolutionary structure search	Yu J., Wang J., Kumar M., Umezawa N., Abe H.	Yu, J., Advanced Manufacturing Research Institute, National Institute of Advanced Industrial Science and Technology, 1-2-1 Namiki, Tsukuba, Ibaraki, Japan; Wang, J., International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki, 305-0044, Japan, Materials Research Center for Element Strategy, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama Kanagawa, 226-8503, Japan, Center for Green Research on Energy and Environmental Materials, National Institute for Materials Sciences, Ibaraki, 305-0044, Japan; Kumar, M., International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki, 305-0044, Japan, School of Physics and Materials Sciences, Thapar University, Patiala, Punjab, 147004, India; Umezawa, N., International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki, 305-0044, Japan, Samsung Electronics, Semiconductor R and D Center, 1 Samsungjeonja-ro, Hwaseong-si, Gyeonggi-do, 18448, South Korea; Abe, H., Center for Green Research on Energy and Environmental Materials, National Institute for Materials Sciences, Ibaraki, 305-0044, Japan	Journal of Materials Chemistry C	2018	20507534

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
956	Interval-valued pythagorean fuzzy maclaurin symmetric mean operators in multiple attribute decision making	Wei G., Garg H., Singh B., Bakar R.A., Remeli M.F., Nanggar A., Oberoi A.	Wei, G., School of Business, Sichuan Normal University, Chengdu, 610101, China; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Patiala, 147004, India; Gao, H., School of Business, Sichuan Normal University, Chengdu, 610101, China; Wei, C., School of Science, Southwest Petroleum University, Chengdu, 610500, China	IEEE Access	2018	21693536
957	Performance enhancement of solar photovoltaic cooling using water sprinkler	Nasir N.N.M., Singh B., Bakar R.A., Remeli M.F., Nanggar A., Oberoi A.	Nasir, N.N.M., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Singh, B., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Bakar, R.A., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Remeli, M.F., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Nanggar, A., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Oberoi, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
958	Prediction of online perceived service quality using spider monkey optimisation	Agrawal V., Bhakar S., Rana P.S., Tiwari D.C.	Agrawal, V., Prestige Institute of Management, Airport Road, Opposite Deendayal Nagar, Gwalior, Madhya Pradesh, 474020, India; Bhakar, S., Prestige Institute of Management, Airport Road, Opposite Deendayal Nagar, Gwalior, Madhya Pradesh, 474020, India; Rana, P.S., Thapar Institute of Engineering and Technology University, Bhadson Road, Patiala, Punjab, 147004, India; Tiwari, D.C., School of Physics, Jiwaji University, Gwalior, India	World Review of Science, Technology and Sustainable Development	2018	17412242
959	Slurry Erosion Behaviour of Pack Boronized 13-4 Martensitic Stainless Steel for Hydro Turbine Blades	Nath G., Kumar S.	Nath, G., Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Thapar University, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
960	Microstructural considerations on SH-wave propagation in a piezoelectric layered structure	Goyal R., Kumar S., Sharma V.	Goyal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, V., Department of Mathematics, Lovely Professional University, Phagwara, Punjab, India	Journal of Theoretical and Applied Mechanics (Poland)	2018	14292955
961	Parametric optimization for nano-finishing of the external cylindrical surfaces using rotating core magnetorheological finishing process	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	ASME 2018 13th International Manufacturing Science and Engineering Conference, MSEC 2018	2018	
962	Shape simulation of solid particles by digital interpretations of scanning electron micrographs using IPA technique	Singh J., Kumar S., Mohapatra S.K., Kumar S.	Singh, J., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mohapatra, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
963	Micromechanical interactions and their relation to stress field for different classes of reinforced polymer composites	Jain D., Vats S., Kumar Bera T.	Jain, D., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Vats, S., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Kumar Bera, T., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India	Materials Today: Proceedings	2018	22147853
964	Characterization of Iron-ore suspension at In-situ conditions	Singh M., Kumar S., Nandan G., Gupta M.	Singh, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nandan, G., Mechanical Engineering Department, Amity University, Noida, 201303, India; Gupta, M., Mechanical Engineering Department, Guru Jambheshwar University of Science and Technology, Hisar, 125001, India	Materials Today: Proceedings	2018	22147853
965	Moisture diffusion along the layered fibre matrix composites with different fibre orientations	Vats S., Jain D., Kumar Bera T.	Vats, S., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Jain, D., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Kumar Bera, T., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India	Materials Today: Proceedings	2018	22147853
966	Life span and overall performance enhancement of Solar Photovoltaic cell using water as coolant: A recent review	Sharma R., Gupta A., Nandan G., Dwivedi G., Kumar S.	Sharma, R., ME Department, Amity University, Uttar Pradesh, Noida, India; Gupta, A., ME Department, Amity University, Uttar Pradesh, Noida, India; Nandan, G., ME Department, Amity University, Uttar Pradesh, Noida, India; Dwivedi, G., ME Department, Amity University, Uttar Pradesh, Noida, India; Kumar, S., ME Department, Thapar University, Patiala, Punjab, India	Materials Today: Proceedings	2018	22147853
967	A sensitization studies on the metallurgical and corrosion behavior of AISI 304 SS welds	Kumar M., Sharma A., Shahi A.S.	Kumar, M., Mechanical Engineering Department, Thapar University, Patiala, 147001, India; Sharma, A., Mechanical Engineering Department, Thapar University, Patiala, 147001, India; Shahi, A.S., Mechanical Engineering Department, SLIET University, Longowal, 148106, India	Lecture Notes in Mechanical Engineering	2018	21954356

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
968	On processing of Ni–WC8Co-based composite clads on austenitic stainless steel through microwave energy	Singh D., Kaushal S., Gupta D., Bhowmick H.L., Jain V.	Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaushal, S., Department of Mechanical and Automobile Engineering, Guljar Group of Institutes, Ludhiana, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhowmick, H.L., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Mechanical Engineering	2018	21954356
969	Investigations on fabrication techniques of aluminium-based porous material	Singh D., Mittal A., Jain V., Gupta D., Singla V.K.	Singh, D., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Mittal, A., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Singla, V.K., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2018	21954356
970	Tool wear analysis while creating blind holes on float glass using conventional drilling: A multi-shaped tools study	Sharma A., Jain V., Gupta D.	Sharma, A., Mechanical Engineering Department, Thapar University, Patiala, 147001, India; Jain, V., Mechanical Engineering Department, Thapar University, Patiala, 147001, India; Gupta, D., Mechanical Engineering Department, Thapar University, Patiala, 147001, India	Lecture Notes in Mechanical Engineering	2018	21954356
971	Direct Absorption Solar Thermal Technologies	Khullar V., Singh H., Tyagi H.	Khullar, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India; Singh, H., College of Engineering, Design and Physical Sciences, Brunel University London, Uxbridge, Middlesex, UB8 3PH, United Kingdom; Tyagi, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, Punjab, 140001, India	Energy, Environment, and Sustainability	2018	25228366
972	Solar Thermal Energy: Use of Volumetric Absorption in Domestic Applications	Bhalla V., Khullar V., Singh H., Tyagi H.	Bhalla, V., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, Punjab, 140001, India; Khullar, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Singh, H., College of Engineering, Design and Physical Sciences, Brunel University London, Uxbridge, MDX, UB8 3PH, United Kingdom; Tyagi, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, Punjab, 140001, India	Energy, Environment, and Sustainability	2018	25228366
973	A novel wineglass shaped wide band antenna for TV white space communication	Raza G.A., Saini G., Kumar N.	Raza, G.A., ECED, Siwan Engineering and Technical Institute, Siwan, Bihar, India; Saini, G., ECED, National Institute of Technical Teachers' Training and Research, Chandigarh, India; Kumar, N., ECED, Thapar Institute of Engineering and Technology, Deemed University, Punjab, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
974	A novel compact MIMO Planar inverted-F Antenna (PIFA) for future 5G wireless devices	Loharia N., Rana S.B., Kumar N.	Loharia, N., Guru Nanak Dev University, Punjab, India; Rana, S.B., Guru Nanak Dev University, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed University, Punjab, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
975	Handling User Cold Start Problem in Recommender Systems Using Fuzzy Clustering	Gupta S., Goel S.	Gupta, S., Department of Computer Science and Engineering, Thapar University, Patiala, India; Goel, S., Department of Computer Science and Engineering, Thapar University, Patiala, India	Lecture Notes in Networks and Systems	2018	23673370
976	Linear despeckle approach for ultrasound carotid artery images	Gupta R., Pachauri R., Singh A.	Gupta, R., Department of Electronics and Communication, Jaypee University of Engineering and Technology, Raghogarh, Guna (M.P.), 473226, India; Pachauri, R., Department of Computer Science, Jaypee University of Engineering and Technology, Raghogarh, Guna (M.P.), India; Singh, A., Department of Electronics and Communication, Thapar Institute of Engineering and Technology University, Patiala, India	Journal of Intelligent and Fuzzy Systems	2018	10641246
977	Group decision making approach based on possibility degree measures and the linguistic intuitionistic fuzzy aggregation operators using Einstein norm operations	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	Journal of Multiple-Valued Logic and Soft Computing	2018	15423980
978	3D representation and CNC machining of 2D digital images	Sood S., Duvedi R.K., Bedi S., Mann S.	Sood, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Duvedi, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bedi, S., University of Waterloo, Waterloo, ON N2M3G1, Canada; Mann, S., University of Waterloo, Waterloo, ON N2M3G1, Canada		2018	23519789
979	Estimating the determinants of public private partnerships in infrastructure: The case of India	Chotia V., Muralidhar Rao N.V.	Chotia, V., LM Thapar School of Management, Derabassi Campus, Thapar Institute of Engineering and Technology (Deemed-to-be-University), Derabassi-140507, Mohali, Punjab, India; Muralidhar Rao, N.V., Department of Economics and Finance, 6165-N, New Academic Block, Birla Institute of Technology and Science, Pilani, Rajasthan, India	International Journal of Critical Infrastructures	2018	14753219
980	Effect of mutual funds characteristics on their performance and trading strategy: A dynamic panel approach	Kaur I.	Kaur, I., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi, India	Cogent Economics and Finance	2018	23322039

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
981	Experimental investigations on the cooling performance of microchannels using alumina nanofluids with different base fluids	Sandhu H., Gangacharyulu D., Singh M.K.	Sandhu, H., Chandigarh University, Mohali, Punjab 140413, India; Gangacharyulu, D., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Singh, M.K., Chandigarh University, Mohali, Punjab 140413, India	Journal of Enhanced Heat Transfer	2018	10655131
982	KSRMF: Kernelized similarity based regularized matrix factorization framework for predicting anti-cancer drug responses	Sharma A., Rani R.	Sharma, A., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Journal of Intelligent and Fuzzy Systems	2018	10641246
983	Multiple peaks in gel permeation chromatographs of poly(l-lactide)	Kaur P., Mehta R., Berek D.	Kaur, P., Department of Chemistry, Bebe Nanaki Guru Nanak Dev University College, Mithra, 144 628, India; Mehta, R., Department of Chemical Engineering, Thapar University, Patiala, 147 004, India; Berek, D., Polymer Institute of Slovak Academy of Sciences, Dubravska cesta 9, Bratislava, 842 36, Slovakia	Asian Journal of Chemistry	2018	9707077
984	A novel correlation coefficient of intuitionistic fuzzy sets based on the connection number of set pair analysis and its application	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Scientia Iranica	2018	10263098
985	Enhanced antibacterial activity of endo-nortropine substituted (C-7) fluorquinolones against V. cholerae, S. aureus and B. subtilis	Salunke R.A., Sidhu C., Kumar A., Pinnaka A.K., Bansal B.R., Chhibber M.	Salunke, R.A., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India, Saurav Chemicals Limited, Mohali, Derabassi, Punjab 140507, India; Sidhu, C., Microbial Type Culture Collection & Gene Bank (MTCC), CSIRInstitute of Microbial Technology, Chandigarh, 160036, India; Kumar, A., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Pinnaka, A.K., Microbial Type Culture Collection & Gene Bank (MTCC), CSIRInstitute of Microbial Technology, Chandigarh, 160036, India; Bansal, B.R., Saurav Chemicals Limited, Mohali, Derabassi, Punjab 140507, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India	Letters in Drug Design and Discovery	2018	15701808
986	Participation of nucleons among different harmonics of anisotropic flow	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Punjab, India; Kumar, S., Department of Physics, Central University of Haryana Jatt-Pali, Mahendergarh, Haryana, India	Canadian Journal of Physics	2018	84204
987	Determination of pressure drop characteristics of fly ash suspension with additive for hydraulic transportation	Kumar S.	Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Applied Fluid Mechanics	2018	17353572
988	Naive Bayes classifier for word sense disambiguation of Punjabi Language	pal Singh V., Kumar P.	pal Singh, V., Computer Science and Engineering Department Thapar University, Patiala, Punjab, 147004, India; Kumar, P., Computer Science and Engineering Department Thapar University, Patiala, Punjab, 147004, India	Malaysian Journal of Computer Science	2018	1279084
989	A note on "fuzzy Hungarian MODI algorithm to solve fully fuzzy transportation problems"	Mishra A., Kumar A., Khan M.A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, A., Department of Mathematics, University of Tabuk, Tabuk, Saudi Arabia; Khan, M.A., Department of Mathematics, University of Tabuk, Tabuk, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2018	10641246
990	Learning regression problems by using classifiers	Ahmad A., Khan S.S., Kumar A.	Ahmad, A., College of Information Technology, United Arab Emirates University, Al Ain, 15551, United Arab Emirates; Khan, S.S., Toronto Rehabilitation Institute, University Health Network Toronto, Toronto, Canada; Kumar, A., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Intelligent and Fuzzy Systems	2018	10641246
991	Digital and traditional tools for communicating corporate social responsibility: A literature review	Tomaselli G., Melia M., Garg L., Gupta V., Xuereb P., Buttigieg S.	Tomaselli, G., Magna Graecia University, Italy; Melia, M., Magna Graecia University, Italy; Garg, L., University of Malta, Malta; Gupta, V., Thapar University, India; Xuereb, P., University of Malta, Malta; Buttigieg, S., University of Malta, Malta	Corporate Social Responsibility: Concepts, Methodologies, Tools, and Applications	2018	
992	Assimilation of optimal sized hybrid photovoltaic-biomass system by dragonfly algorithm with grid	Ghosh S., Karar V.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Karar, V., Optical Devices and Systems, CSIR-Central Scientific Instruments Organization, Chandigarh, 160030, India	Energies	2018	19961073
993	Multi-optimisation of electric discharge machining parameters for cryogenically treated pure titanium using grey-Taguchi technique	Kumar S., Singh R., Batish A., Singh T.P., Singh R.	Kumar, S., Department of Mechanical Engineering, Chandigarh Engineering College, Landran (Mohali), Punjab, 147004, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Gill Road, Gill Park, Ludhiana, Punjab, 141006, India; Batish, A., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India; Singh, T.P., Symbiosis Institute of Technology, Symbiosis International University, Lupin Research Park, Lavale, Tal: Mulshi, Pune, 411042, India; Singh, R., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, 147004, India	International Journal of Machining and Machinability of Materials	2018	17485711

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
994	Non-self mappings under common limit range property in symmetric spaces and fixed points	Chandok S., Kumar D.	Chandok, S., School of Mathematics, Thapar University, Patiala, Punjab, 147004, India; Kumar, D., IKG Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala, Punjab, 144603, India, Department of Mathematics, Lovely Professional University, Phagwara, Punjab, 144411, India	Turkish World Mathematical Society Journal of Applied and Engineering Mathematics	2018	21461147
995	Revisiting the asset pricing paradigm using sustainable growth rate	Arora L., Kumar S., Verma P.	Arora, L., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to be University), H. Number 1224, Urban Estate, Phase-1, Jalandhar, Punjab, 144022, India; Kumar, S., Indian Institute of Information Technology, Room No. 3217, Lecture Complex, Deoghat, Jhalwa, Allahabad, Uttar Pradesh, 211012, India; Verma, P., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to be University), Dera Bassi Campus, Dera Bassi-Barwala Road, District Mohali, Punjab, 140507, India	International Journal of Economics and Business Research	2018	17569850
996	Donor- π -acceptor (D- π -A) dyad for ratiometric detection of Hg ²⁺ and PPI	Rani R., Kumar G., Paul K., Luxami V.	Rani, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	New Journal of Chemistry	2018	11440546
997	Implementation of a logic gate by chemically induced nitrogen and oxygen rich C-dots for the selective detection of fluoride ions	Kainth S., Mehta A., Mishra A., Basu S.	Kainth, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	New Journal of Chemistry	2018	11440546
998	Insulin therapy for diabetes epidemic: A patent review	Tandon R., Luxami V., Dosanjh H.S., Tandon N., Paul K.	Tandon, R., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Dosanjh, H.S., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Tandon, N., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Current Drug Delivery	2018	15672018
999	Efficient wavelet families for ECG classification using neural classifiers	Singh R., Mehta R., Rajpal N.	Singh, R., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rajpal, N., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India	Procedia Computer Science	2018	18770509
1000	Estimation of severity level of non-proliferative diabetic retinopathy for clinical aid	Kaur J., Mittal D.	Kaur, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Biocybernetics and Biomedical Engineering	2018	2085216
1001	Low-voltage highly linear floating gate MOSFET based source degenerated OTA and its applications	Dubey T., Pandey R.	Dubey, T., Thapar University, Department of Electronics and Communication Engineering, Patiala, India; Pandey, R., Thapar University, Department of Electronics and Communication Engineering, Patiala, India	Informacije MIDEM	2018	3529045
1002	Detection of lung cancer with the fusion of computed tomography and positron emission tomography	Kaur J., Pancholi S., Joshi A.M.	Kaur, J., Thapar University, Patiala, Punjab, India; Pancholi, S., Malaviya National Institute of Technology, Jaipur, Rajasthan, India; Joshi, A.M., Malaviya National Institute of Technology, Jaipur, Rajasthan, India	Communications in Computer and Information Science	2018	18650929
1003	Non-ideal modelling and IMC based PID Controller Design of PWM DC-DC Buck Converter	Siddhartha V., Hote Y.V., Saxena S.	Siddhartha, V., Electrical Engineering Department, Indian Institute of Technology Roorkee, Roorkee, India; Hote, Y.V., Electrical Engineering Department, Indian Institute of Technology Roorkee, Roorkee, India; Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IFAC-PapersOnLine	2018	24058963
1004	PI Controller Based Load Frequency Control Approach for Single-Area Power System Having Communication Delay	Saxena S., Hote Y.V.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Hote, Y.V., Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, India	IFAC-PapersOnLine	2018	24058963
1005	A novel framework for reliable network prediction of small scale wireless sensor networks (SSWSNs)	Sandhu J.K., Verma A.K., Rana P.S.	Sandhu, J.K., Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Patiala, India	Fundamenta Informaticae	2018	1692968
1006	Improving the Accuracy of Recommender Systems Through Annealing	Arora S., Goel S.	Arora, S., Department of Computer Science and Engineering, Thapar University, Patiala, India; Goel, S., Department of Computer Science and Engineering, Thapar University, Patiala, India	Lecture Notes in Networks and Systems	2018	23673370

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1007	GO mediated TiO2 nanotube electrode for the photoelectrocatalytic degradation of pentachlorophenol	Rajput H., Dhir A., Sangal V.K.	Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology Patiala, India	Journal of the Electrochemical Society	2018	134651
1008	A note on "novel single-valued neutrosophic aggregated operators under frank norm operation and its application to decision-making process"	Mishra A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering and Technology Patiala, Punjab, India	International Journal for Uncertainty Quantification	2018	21525080
1009	Digital image copy-move forgery detection based on discrete fractional wavelet transform	Lamba A.K., Jindal N., Sharma S.	Lamba, A.K., Department of Electronics and Communication, Thapar University, Patiala, India; Jindal, N., Department of Electronics and Communication, Thapar University, Patiala, India; Sharma, S., Department of Electronics and Communication, Thapar University, Patiala, India	Turkish Journal of Electrical Engineering and Computer Sciences	2018	13000632
1010	An effective approach of secured medical image transmission using encryption method	Gupta R., Pachauri R., Singh A.K.	Gupta, R., Department of Electronics and Communication, Raghogarh, Guna, M.P. 473226, India; Pachauri, R., Department of Computer Science Engineering, Raghogarh, Guna, M.P. 473226, India, Jaypee University of Engineering and Technology, Raghogarh, Guna, M.P. 473226, India; Singh, A.K., Department of Electronics and Communication, Raghogarh, Guna, M.P. 473226, India, Thapar Institute of Engineering and Technology University, Patiala, 147004, India	MCB Molecular and Cellular Biomechanics	2018	15565297
1011	Strong Decays and Coupling Constants of 1P and 1D Bottom Meson	Gupta P., Upadhyay A.	Gupta, P., School of Physics and Material Science, Thapar University, Patiala, Punjab 147004, India; Upadhyay, A., School of Physics and Material Science, Thapar University, Patiala, Punjab 147004, India	Springer Proceedings in Physics	2018	9308989
1012	A Proof- of-Principle for Time of Flight-Positron Emission Tomography Imaging	Ganai R., Mehta S., Shiroya M., Mondal M., Ahammed Z., Chattopadhyay S.	Ganai, R., EHEP&A Group, Variable Energy Cyclotron Centre, Kolkata, 700064, India, Training School Complex, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400 085, India, Bose Institute, Centre for Astroparticle Physics and Space Sciences, P-1/12, CIT Road, Scheme VII-M, Kolkata, West Bengal 700054, India, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Planckstrasse 1, Darmstadt, 64291, Germany; Mehta, S., School of Physics and Material Sciences, Thapar University, Patiala, Punjab 147004, India; Shiroya, M., Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat 395007, India; Mondal, M., EHEP&A Group, Variable Energy Cyclotron Centre, Kolkata, 700064, India, Training School Complex, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400 085, India; Ahammed, Z., EHEP&A Group, Variable Energy Cyclotron Centre, Kolkata, 700064, India, Training School Complex, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400 085, India; Chattopadhyay, S., EHEP&A Group, Variable Energy Cyclotron Centre, Kolkata, 700064, India, Training School Complex, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400 085, India	Springer Proceedings in Physics	2018	9308989
1013	Development of 6-Gap Bakelite Multi-gap Resistive Plate Chamber (MRPC)	Ganai R., Mondal M., Mehta S., Ahammed Z., Chattopadhyay S.	Ganai, R., Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata, 700064, India, Bose Institute, Centre for Astroparticle Physics and Space Sciences, P-1/12, CIT Road, Scheme VII-M, Kolkata, West Bengal 700054, India, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Planckstrasse 1, Darmstadt, 64291, Germany; Mondal, M., Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata, 700064, India; Mehta, S., School of Physics and Material and Sciences, Thapar University, Patiala, Punjab 147004, India; Ahammed, Z., Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata, 700064, India; Chattopadhyay, S., Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata, 700064, India	Springer Proceedings in Physics	2018	9308989
1014	An empirical analysis for predicting source code file reusability using meta-classification algorithms	Kaur L., Mishra A.	Kaur, L., Department of Computer Science & Engineering, Thapar University, Patiala, India; Mishra, A., Department of Computer Science & Engineering, Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2018	21945357
1015	Person identification with pose and identification of known associates	Singh A.	Singh, A., Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2018	21945357
1016	Nature-inspired optimization techniques in VANETS and FANETS: A survey	Kaur P., Singh A.	Kaur, P., Thapar University, Patiala, India; Singh, A., Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2018	21945357
1017	Hesitant Pythagorean fuzzy sets and their aggregation operators in multiple attribute decision-making	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	International Journal for Uncertainty Quantification	2018	21525080
1018	Problems and prospects of Indian MSMEs: A literature review	Singh D., Khamba J.S., Nanda T.	Singh, D., Mechanical Engineering Department, Punjabi University, Patiala, India; Khamba, J.S., Mechanical Engineering Department, Punjabi University, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar University, Patiala, India	International Journal of Business Excellence	2018	17560047

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1019	Energy aware resource allocation for clouds using two level ant colony optimization	Kumar A., Kumar R., Sharma A.	Kumar, A., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Kumar, R., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Sharma, A., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India	Computing and Informatics	2018	13359150
1020	Mediating role of process simplification in process integration and upstream supply chain flexibility	Goyal G., Samalia H.V., Verma P.	Goyal, G., LM Thapar School of Management, Thapar University, Derabassi, India; Samalia, H.V., Rajiv Gandhi Indian Institute of Management, Shillong, India; Verma, P., LM Thapar School of Management, Thapar University, Derabassi, India	International Journal of Productivity and Performance Management	2018	17410401
1021	Dispersion of rayleigh waves in a microstructural couple stress substrate loaded with liquid layer under the effects of gravity	Sharma V., Kumar S.	Sharma, V., Department of Mathematics, Lovely Professional University, Phagwara, Punjab 144411, India; Kumar, S., School of Mathematics, Thapar University Patiala, Punjab, 147004, India	Archives of Acoustics	2018	1375075
1022	Effect of process parameters on shrinkage of acrylonitrile butadiene styrene parts fabricated by 3D printing process	Singh S., Rajpoot R., Bedi V., Vats S., Srivastava V.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Rajpoot, R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Bedi, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Vats, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Springer Proceedings in Physics	2018	9308989
1023	Nanoantibiotics: strategic assets in the fight against drug-resistant superbugs	Khurana C., Chudasama B.	Khurana, C., Laboratory of Nanomedicine, School of Physics and Materials Science, Thapar University, Patiala, Punjab, India; Chudasama, B., Laboratory of Nanomedicine, School of Physics and Materials Science, Thapar University, Patiala, Punjab, India	International journal of nanomedicine	2018	11782013
1024	Low temperature synthesis of elongated triangular bipyramidal ZnO nanostructures for photocatalytic activity	Singh G., Panday S., Rawat M., Kukkar D., Kumar S., Basu S.	Singh, G., Department of Electronics and Communication Engineering, Desh Bhagat University, Mandi Gobindgarh, Punjab, India; Panday, S., Department of Electronics and Communication Engineering, Desh Bhagat University, Mandi Gobindgarh, Punjab, India, Department of Electronics and Communication Engineering, Eternal University, Baru Sahib, Himachal Pardesh, India; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kukkar, D., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Basu, S., Department of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, India	Journal of Nano Research	2018	16625250
1025	QoS-aware routing in wireless networks using Aerial vehicles	Sharma V., Srinivasan K.	Sharma, V., Computer Science and Engineering Department, Thapar University, India; Srinivasan, K., Department of Computer Science and Information Engineering, National Ilan University, Taiwan	Journal of Internet Technology	2018	16079264
1026	Automated high resolution full-field spatial coherence tomography for quantitative phase imaging of human red blood cells	Singla N., Dubey K., Srivastava V., Ahmad A., Mehta D.S.	Singla, N., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, Punjab, India; Dubey, K., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, Punjab, India; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, Punjab, India; Ahmad, A., Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Mehta, D.S., Department of Physics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Progress in Biomedical Optics and Imaging - Proceedings of SPIE	2018	16057422
1027	Thermally induced 1D to 2D polymer conversion accompanied by major packing changes in single-crystal-to-single-crystal transformation	Singh A.S., Ali A., Tiwari R.K., Behera J.N., Sun S.-S., Chandrasekhar V.	Singh, A.S., School of Chemical Sciences, National Institute of Science Education and Research (NISER), P. O. Jatni, Khurda, Bhubaneswar, Odissa, 752050, India, School of Chemistry and Biochemistry, Thapar University, PO Box 32, Patiala, Panjab, 147004, India, Department of Chemistry, Chandigarh University, NH-95, Chandigarh-Ludhiana Highway, Mohali, Panjab, 140413, India; Ali, A., School of Chemistry and Biochemistry, Thapar University, PO Box 32, Patiala, Panjab, 147004, India; Tiwari, R.K., School of Chemical Sciences, National Institute of Science Education and Research (NISER), P. O. Jatni, Khurda, Bhubaneswar, Odissa, 752050, India; Behera, J.N., School of Chemical Sciences, National Institute of Science Education and Research (NISER), P. O. Jatni, Khurda, Bhubaneswar, Odissa, 752050, India; Sun, S.-S., Institute of Chemistry, Academia Sinica, 115 Nankang, Taipei, Taiwan; Chandrasekhar, V., School of Chemical Sciences, National Institute of Science Education and Research (NISER), P. O. Jatni, Khurda, Bhubaneswar, Odissa, 752050, India, Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, India, Tata Institute of Fundamental Research, Hyderabad, India	CrystEngComm	2018	14668033
1028	Catalytic hydrogen generation from NABH4/H2O system: Effects of catalyst and promoters	Kaur A., Gangacharyulu D., Bajpai P.K.	Kaur, A., Department of Chemical Engineering, Thapar University, Patiala, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar University, Patiala, India; Bajpai, P.K., Department of Chemical Engineering, Thapar University, Patiala, India	Brazilian Journal of Chemical Engineering	2018	1046632
1029	Comparison of Machine Learning Techniques for the Prediction of Compressive Strength of Concrete	Chopra P., Sharma R.K., Kumar M., Chopra T.	Chopra, P., Department of Computer Science and Engineering, Thapar University, Patiala, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar University, Patiala, India; Kumar, M., Department of Civil Engineering, Thapar University, Patiala, India; Chopra, T., Department of Civil Engineering, Thapar University, Patiala, India	Advances in Civil Engineering	2018	16878086

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1030	Multilayer perceptron application for diabetes mellitus prediction in pregnancy care	Moreira M.W.L., Rodrigues J.J.P.C., Kumar N., Niu J., Sangaiah A.K.	Moreira, M.W.L., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, Instituto Federal de Educação, Ciência e Tecnologia do Ceará (IFCE), Aracati, CE, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil, University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Niu, J., School of Computer Science and Engineering, Beihang University, Beijing, China; Sangaiah, A.K., School of Computing Science and Engineering, Vellore Institute of Technology (VIT), Vellore, India	Lecture Notes in Electrical Engineering	2018	18761100
1031	Cubic intuitionistic fuzzy aggregation operators	Kaur G., Garg H.	Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	International Journal for Uncertainty Quantification	2018	21525080
1032	Experimental investigation of the effect of heat transfer and pressure drop on performance of a flat tube by using water-based Al ₂ O ₃ nanofluids	Singh G., Gangacharyulu D., Bulasara V.K.	Singh, G., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	International Journal of Energy for a Clean Environment	2018	21503621
1033	Micro-phasor measurement units (μ PMUs) and its applications in smart distribution systems	Jain A., Bhullar S.	Jain, A., Department of Electrical Engineering, Indian Institute of Technology (BHU), Varanasi, India; Bhullar, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2018	18761100
1034	Multi-objective data aggregation for clustered wireless sensor networks	Randhawa S., Jain S.	Randhawa, S., Computer Science and Engineering Department, Thapar University, Punjab, 147004, India; Jain, S., Computer Science and Engineering Department, Thapar University, Punjab, 147004, India	Advances in Intelligent Systems and Computing	2018	21945357
1035	Estimation and mitigation of four wave mixing in wavelength division multiplexing radio over fiber system using hybrid modules	Kaur G., Kaler R.S., Rana A.	Kaur, G., Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, Punjab 147004, India; Kaler, R.S., Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, Punjab 147004, India; Rana, A., Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, Punjab 147004, India	Optoelectronics and Advanced Materials, Rapid Communications	2018	18426573
1036	Development of Pavement Distress Deterioration Prediction Models for Urban Road Network Using Genetic Programming	Chopra T., Parida M., Kwatra N., Chopra P.	Chopra, T., Department of Civil Engineering, Thapar University, Patiala, India; Parida, M., Department of Civil Engineering, Indian Institute of Technology, Roorkee, India; Kwatra, N., Department of Civil Engineering, Thapar University, Patiala, India; Chopra, P., Department of Computer Science and Engineering, Thapar University, Patiala, India	Advances in Civil Engineering	2018	16878086
1037	Acoustic comparison of electronics disguised voice using Different semitones	Singh M.K., Singh A.K., Singh N.	Singh, M.K., Jaypee University of Engineering and Technology, Guna (M.P.), India; Singh, A.K., Thapar University, Patiala (Punjab), India; Singh, N., Jaypee University of Engineering and Technology, Guna (M.P.), India	International Journal of Engineering and Technology(UAE)	2018	2227524X
1038	Dimensionality reduction using PCA and SVD in big data: A comparative case study	Tanwar S., Ramani T., Tyagi S.	Tanwar, S., Department of CE, Institute of Technology, Nirma University, Ahmedabad, India; Ramani, T., Department of CE, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of ECE, Thapar University, Patiala, Punjab, India	Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICT	2018	18678211
1039	Taguchi's Approach for Optimization of Tribo-Resistance Parameters Forss304	Singh J., Kumar S., Singh G.	Singh, J., Thapar University, Patiala Punjab, 147004, India; Kumar, S., Thapar University, Patiala Punjab, 147004, India; Singh, G., Thapar University, Patiala Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
1040	Effect of hard faced Cr-alloy on abrasive wear of low carbon rotavator blades using design of experiments	Singh S., Garg J., Singh P., Singh G., Kumar K., Singh J., Kumar S., Singh J.P.	Singh, S., B.G.I.E.T., Sangrur, Punjab, 148001, India; Garg, J., B.G.I.E.T., Sangrur, Punjab, 148001, India; Singh, P., B.G.I.E.T., Sangrur, Punjab, 148001, India; Singh, G., Thapar University, Patiala, Punjab, 147004, India; Kumar, K., G.J.U.S.andT. University, Hisar, Haryana, 125001, India; Singh, J., Thapar University, Patiala, Punjab, 147004, India; Kumar, S., Thapar University, Patiala, Punjab, 147004, India; Singh, J.P., Thapar University, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2018	22147853
1041	Importance of smart metering in diverse fields of smart cities	Ahuja K., Khosla A.	Ahuja, K., Department of Electronics and Communication Engineering, National Institute of Technology, Technical University, Jalandhar, India, Thapar University, Patiala, Punjab, India; Khosla, A., Department of Electronics and Communication Engineering, National Institute of Technology, Technical University, Jalandhar, India, Thapar University, Patiala, Punjab, India	International Journal of Grid and Distributed Computing	2018	20054262
1042	Enhanced gain in S+C band utilizing TDFRA-FRA hybrid amplifier in cascaded and parallel configurations at reduced channel spacings for DWDM systems	Singh K., Kaur G., Singla S.K., Kaur P.	Singh, K., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147001, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147001, India; Kaur, P., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	Journal of Optoelectronics and Advanced Materials	2018	14544164

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1043	A millimeter wave antenna using slots for defense applications	Negi D., Khanna R.	Negi, D., ECED, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Khanna, R., ECED, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
1044	Integrating agile thinking into maintenance strategy performance analysis	Srivastava P., Khanduja D., Agrawal V.P.	Srivastava, P., Department of Mechanical Engineering, NIT, Kurukshetra Haryana, 136119, India; Khanduja, D., Department of Mechanical Engineering, NIT, Kurukshetra Haryana, 136119, India; Agrawal, V.P., Department of Mechanical Engineering, Thapar University, Patiala Punjab, 147001, India	International Journal of Process Management and Benchmarking	2018	14606739
1045	Volumetric 3D reconstruction of real objects using voxel mapping approach in a multiple-camera environment	Jadhav T., Singh K., Abhyankar A.	Jadhav, T., Department of Electronics and Telecommunication, Vishwakarma Institute of Information Technology, Pune, India; Singh, K., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Abhyankar, A., Department of Technology, Savitribai Phule Pune University, Pune, India	Turkish Journal of Electrical Engineering and Computer Sciences	2018	13000632
1046	Multi-scenario dataset for speaker recognition	Srivastava S., Gopal, Bhardwaj S.	Srivastava, S., Netaji Subhas Institute of Technology, Delhi University, Dwarka, Delhi, India; Gopal, Bharati Vidyapeeth's College of Engineering, Guru Gobind Singh Indraprastha University, Delhi, India; Bhardwaj, S., Thapar University, Patiala, punjab, India	Journal of Intelligent and Fuzzy Systems	2018	10641246
1047	OFFRP: Optimised fruit fly based routing protocol with congestion control for UAVs guided ad hoc networks	Sharma V., You I., Kumar R., Chauhan V.	Sharma, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; You, I., Department of Information Security Engineering, Soonchunhyang University, Asan-si, Choongchungnam-do, 31538, South Korea; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Chauhan, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	International Journal of Ad Hoc and Ubiquitous Computing	2018	17438225
1048	Information systems road map to enhance economic and operational reverse logistics performance	Mahindroo A., Samalia H.V., Verma P.	Mahindroo, A., L.M. Thapar School of Management, India, Derabassi Campus, India, Thapar University, India, Village-Behra, Derabassi, 140507, India, Mohali, Punjab, India; Samalia, H.V., Rajiv Gandhi Indian Institute of Management, India, Nongthymmai, Shillong, 793014, India, Meghalaya, India; Verma, P., L M Thapar School of Management, India, Derabassi Campus, India, Thapar University, India, Village-Behra, Derabassi, 140507, India, Mohali, Punjab, India	International Journal of Logistics Systems and Management	2018	17427967
1049	A Michael addition-cyclization-based switch-on fluorescent chemodosimeter for cysteine and its application in live cell imaging	Manna S., Karmakar P., Ali S.S., Guria U.N., Sarkar R., Datta P., Mandal D., Mahapatra A.K.	Manna, S., Department of Chemistry, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal, 711103, India; Karmakar, P., Department of Chemistry, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal, 711103, India; Ali, S.S., Department of Chemistry, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal, 711103, India; Guria, U.N., Department of Chemistry, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal, 711103, India; Sarkar, R., Centre for Healthcare Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India; Datta, P., Centre for Healthcare Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147 004-486, India; Mahapatra, A.K., Department of Chemistry, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal, 711103, India	New Journal of Chemistry	2018	11440546
1050	Reaction-based bi-signaling chemodosimeter probe for selective detection of hydrogen sulfide and cellular studies	Guria U.N., Maiti K., Ali S.S., Samanta S.K., Mandal D., Sarkar R., Datta P., Ghosh A.K., Mahapatra A.K.	Guria, U.N., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur Howrah West Bengal, 711103, India; Maiti, K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur Howrah West Bengal, 711103, India; Ali, S.S., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur Howrah West Bengal, 711103, India; Samanta, S.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur Howrah West Bengal, 711103, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Sarkar, R., Centre for Healthcare Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India; Datta, P., Centre for Healthcare Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India; Ghosh, A.K., Bhabha Atomic Research Centre Trombay, Mumbai, 400085, India; Mahapatra, A.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur Howrah West Bengal, 711103, India	New Journal of Chemistry	2018	11440546
1051	Hybrid methodology for optimal allocation of synchronous generator-based DG	Kaur N., Jain S.K.	Kaur, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Jain, S.K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2018	21945357
1052	Experiment on a highly sensitive fiber Bragg grating optical sensor to monitor strain and corrosion in civil structures	Kaur G., Kaler R.S., Kwatra N.	Kaur, G., Department of Electronics and Communication Engineering, Thapar University, Patiala, 147002, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, 147002, India; Kwatra, N., Department of Civil Engineering, Thapar University, Patiala, 147002, India	Journal of Optical Technology (A Translation of Opticheski Zhurnal)	2018	10709762
1053	Optimal determination of wavelet for football player EEG using SVM classifier	Aggarwal A., Agarwal R.	Aggarwal, A., Thapar UniversityPunjab, India; Agarwal, R., Thapar UniversityPunjab, India	Biomedical Research (India)	2018	0970938X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1054	An empirical study of clone detection in MATLAB/Simulink models	Rattan D., Bhatia R., Singh M.	Rattan, D., Department of Computer Engineering, Punjabi University, Patiala, Punjab, 147002, India; Bhatia, R., Department of Computer Science and Engineering, PEC University of Technology, Chandigarh, Chandigarh, 160012, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	International Journal of Information and Communication Technology	2018	14666642
1055	Investigation of rotameric conformations of substituted imidazo-[1,2-a] pyrazine: Experimental and theoretical approaches	Kumar G., Goel R., Paul K., Luxami V.	Kumar, G., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Goel, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	RSC Advances	2018	20462069
1056	Comparative study of NoSQL databases for big data storage	Bathla G., Rani R., Aggarwal H.	Bathla, G., Punjabi University, Patiala, India; Rani, R., Thapar University, Patiala, India; Aggarwal, H., Punjabi University, Patiala, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
1057	Bayesian Cooperative Coalition Game as a Service for RFID-Based Secure QoS Management in Mobile Cloud	Kumar N., Iqbal R., Misra S., Rodrigues J.J.P.C., Obaidat M.S.	Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Iqbal, R., Faculty of Engineering, Environment and Computing, Coventry University, Coventry, CV1 5FB, United Kingdom; Misra, S., School of Information Technology, IIT Kharagpur, Kharagpur, 721302, India; Rodrigues, J.J.P.C., Instituto de Telecomunicações, University of Beira Interior, Covilhã, 6201-001, Portugal, University of Fortaleza (UNIFOR), Fortaleza, 60811-905, Brazil; Obaidat, M.S., Department of Computer and Information Science, Fordham University, Bronx, NY 10458, United States	IEEE Transactions on Emerging Topics in Computing	2018	21686750
1058	An improved cosine similarity measure for intuitionistic fuzzy sets and their applications to decision-making process	Garg H.	Garg, H., Thapar University, Patiala to Thapar Institute of Engineering and Technology, Deemed University, Patiala, India	Haceteppe Journal of Mathematics and Statistics	2018	2651477X
1059	Prioritized averaging/geometric aggregation operators under the intuitionistic fuzzy soft set environment	Arora R., Garg H.	Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Scientia Iranica	2018	10263098
1060	Systematic review of clustering high-Dimensional and large datasets	Pandove D., Goel S., Rani R.	Pandove, D., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Goel, S., Department of Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, U.P., India; Rani, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	ACM Transactions on Knowledge Discovery from Data	2018	15564681
1061	Moderated influence of return frequency and resource commitment on information systems and reverse logistics strategic performance	Mahindroo A., Samalia H.V., Verma P.	Mahindroo, A., LM Thapar School of Management, Thapar University, Patiala, India; Samalia, H.V., Rajiv Gandhi Indian Institute of Management, Shillong, India; Verma, P., LM Thapar School of Management, Thapar University, Patiala, India	International Journal of Productivity and Performance Management	2018	17410401
1062	PEEK composite scaffold preparation for load bearing bone implants	Kumar S.S., Chhibber R., Mehta R.	Kumar, S.S., Faculty of Mechanical Engineering Department, CMR College of Engineering and Technology, Hyderabad, Telangana state 501401, India; Chhibber, R., Faculty of Mechanical Engineering, Indian Institute of Technology, Jhoshpur, Rajasthan, India; Mehta, R., Faculty of Chemical Engineering, Thapar University, Patiala, Punjab, India	Materials Science Forum	2018	2555476
1063	On combinatorics of modified lattice paths and generalized q-series	Rana M., Goyal M.	Rana, M., School of Mathematics, Thapar University, Patiala, 147001, India; Goyal, M., Department of Mathematical Sciences, I.K. Gujral Punjab Technical University, Jalandhar, Main Campus, Kapurthala, 144603, India	Contributions to Discrete Mathematics	2018	17150868
1064	Some robust improved geometric aggregation operators under interval-valued intuitionistic fuzzy environment for multi-criteria decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar University Patiala, Punjab, 147004, India	Journal of Industrial and Management Optimization	2018	15475816
1065	Performance analysis of optimum combiner in power limited cognitive radios with multiple primary interferers	Bindra K.V., Khanna R., Sharma S.	Bindra, K.V., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147004, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147004, India	Elektronika ir Elektrotehnika	2018	13921215
1066	BINOL-based differential chromo-fluorescent sensor and its application in miniaturized 1-2/4-2 bit encoders and decoders	Gupta A.S., Kumar G., Paul K., Luxami V.	Gupta, A.S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Kumar, G., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	New Journal of Chemistry	2018	11440546

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1067	An improved method for simplification of the large scale linear time invariant control system	Tiwari S.K., Kaur G.	Tiwari, S.K., Department of Electrical & Instrumentation Engineering, Thapar University, Patiala, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar University, Patiala, India	WSEAS Transactions on Systems and Control	2018	19918763
1068	Simulation type functions and coincidence points	Radenović S., Chandok S.	Radenović, S., Nonlinear Analysis Research Group, Ton Duc Thang University, Ho Chi Minh City, Viet Nam, Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Chandok, S., School of Mathematics, Thapar University, Patiala, 147004, India	Filomat	2018	3545180
1069	Analysis of strong decays of charmed mesons D2* (2460), D0 (2560), D2 (2740), D1 (3000), D2* (3000), and their spin partners D1+ (2680), D3* (2760), and D0+ (3000)	Gupta P., Upadhyay A.	Gupta, P., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India; Upadhyay, A., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147004, India	Physical Review D	2018	24700010
1070	FCTM: A novel fuzzy classification trust model for enhancing reliability in flying Ad hoc networks (FANETS)	Singh K., Verma A.K.	Singh, K., Wireless Network and Mobile Computing Group, CSED, Thapar University, Patiala, 147001, India; Verma, A.K., Wireless Network and Mobile Computing Group, CSED, Thapar University, Patiala, 147001, India	Ad-Hoc and Sensor Wireless Networks	2018	15519899
1071	Effect of addition of different nanoclays on the fumed silica-polyethylene glycol based shear-thickening fluids	Singh M., Mehta R., Verma S.K., Biswas I.	Singh, M., Thapar University, Department of Chemical Engineering, Punjab Patiala, 147004, India; Mehta, R., Thapar University, Department of Chemical Engineering, Punjab Patiala, 147004, India; Verma, S.K., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Biswas, I., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India	Materials Research Express	2018	20531591
1072	Despeckling of ultrasound images using modified local statistics mean variance filter	Gupta R., Pachauri R., Singh A.	Gupta, R., Department of Electronics and Communication, Raghogarh, Guna (M.P.), 473226, India, Jaypee University of Engineering and Technology, Raghogarh, Guna (M.P.), 473226, India; Pachauri, R., Department of Computer Science, Raghogarh, Guna (M.P.), 473226, India, Jaypee University of Engineering and Technology, Raghogarh, Guna (M.P.), 473226, India; Singh, A., Department of Electronics and Communication, Raghogarh, Guna (M.P.), 473226, India, Thapar Institute of Engineering and Technology University, Patiala, 147004, India	CMES - Computer Modeling in Engineering and Sciences	2018	15261492
1073	Impersonation attack on CertificateLess key agreement protocol	Bala S., Sharma G., Verma A.K.	Bala, S., Amity School of Engineering and Technology, Amity University, Noida, 201 301, India; Sharma, G., Amity School of Engineering, Amity University, Noida, 201 301, India; Verma, A.K., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India	International Journal of Ad Hoc and Ubiquitous Computing	2018	17438225
1074	Effect of Mixing Parameters on Mechanical Properties of Organoclay Epoxy Nanocomposites	Sharma B., Chhibber R., Mehta R.	Sharma, B., Department of Mechanical Engineering, Thapar University, Patiala Punjab, 147004, India; Chhibber, R., Indian Institute of Technology, Ratanada Jodhpur Rajasthan, 342011, India; Mehta, R., Department of Chemical Engineering, Thapar University, Punjab, India	Materials Today: Proceedings	2018	22147853
1075	Deterministic Deep Pushdown Transducer and its Parallel Version	Kalra N., Kumar A.	Kalra, N., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Kumar, A., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India	Computer Journal	2018	104620
1076	Security and Privacy for the Internet of Drones: Challenges and Solutions	Lin C., He D., Kumar N., Choo K.-K.R., Vinel A., Huang X.	Lin, C., Wuhan University, China; He, D., Wuhan University, China; Kumar, N., Thapar University, China; Choo, K.-K.R., University of Texas at San Antonio, United States; Vinel, A., Halmstad University, Sweden; Huang, X., Fujian Normal University, China	IEEE Communications Magazine	2018	1636804
1077	Nanohybrid optical sensor for simultaneous measurements of strain, temperature, and vibration for civil application	Kaur G., Kaler R.S.	Kaur, G., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, Punjab, 147004, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar University, Patiala, Punjab, 147004, India	Micro and Nano Letters	2018	17500443
1078	Reliable Distribution Network Design with Link Disruption Using Cross Decomposition	Kumar V., Anand R.	Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala Punjab, India; Anand, R., Computer Science and Engineering Department, Thapar University, Patiala Punjab, India	Procedia Computer Science	2018	18770509
1079	SecSVA: Secure Storage, Verification, and Auditing of Big Data in the Cloud Environment	Aujla G.S., Chaudhary R., Kumar N., Das A.K., Rodrigues J.J.P.C.	Aujla, G.S., Thapar University, India; Chaudhary, R., Thapar University, India; Kumar, N., Thapar University, India; Das, A.K., International Institute of Information Technology, Hyderabad, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Instituto de Telecomunicacoes, ITMO University and the University of Fortaleza (UNIFOR), Portugal	IEEE Communications Magazine	2018	1636804
1080	Two Level Encryption of Grey Scale Image through 2D Cellular Automata	Bhardwaj R., Bhagat D.	Bhardwaj, R., CSED, Thapar University, Patiala, India; Bhagat, D., CSED, Thapar University, Patiala, India	Procedia Computer Science	2018	18770509

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1081	Performance analysis of evanescent wave absorption plasmonic optical sensor with COMSOL FEM method simulation	Singh S., Kaler R.S.	Singh, S., Research Scholar Optical Fiber Communication Research Laboratory, Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147001, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147001, India	Procedia Computer Science	2018	18770509
1082	Multi-attribute decision-making based on Bonferroni mean operators under cubic intuitionistic fuzzy set environment	Kaur G., Garg H.	Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Entropy	2018	10994300
1083	Defogging of road images using gain coefficient-based trilateral filter	Singh D., Kumar V.	Singh, D., Thapar University, Department of Computer Science and Engineering, Patiala, India; Kumar, V., Thapar University, Department of Computer Science and Engineering, Patiala, India	Journal of Electronic Imaging	2018	10179909
1084	Effects of microstructure and liquid loading on velocity dispersion of leaky Rayleigh waves at liquid-solid interface	Sharma V., Kumar S.	Sharma, V., Department of Mathematics, Lovely Professional University, Phagwara, Punjab, 144411, India; Kumar, S., School of Mathematics, Thapar University, Patiala, Punjab, 147004, India	Canadian Journal of Physics	2018	84204
1085	ϕ FrMF : Fractional Fourier Matched Filter	Kumar S., Saxena R.	Kumar, S., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Saxena, R., Jaypee University, Anoopshahr, Aligarh Road, Bulandshahr, Anoopshahr, Uttar Pradesh 203390, India	Circuits, Systems, and Signal Processing	2018	0278081X
1086	Evolving state grammar for modeling DNA and RNA structures	Kumar A., Kalra N., Garhwal S.	Kumar, A., CSED, Thapar University, Patiala, 147004, India; Kalra, N., CSED, Thapar University, Patiala, 147004, India; Garhwal, S., CSED, Thapar University, Patiala, 147004, India	International Journal of Engineering and Technology(UAE)	2018	2227524X
1087	Kinematic modeling of a 7-degree of freedom spatial hybrid manipulator for medical surgery	Singh A., Singla E., Soni S., Singla A.	Singh, A., Department of Mechanical Engineering, Thapar University, Patiala, India; Singla, E., Mechanical Engineering Department, IIT Ropar, Rupnagar, India; Soni, S., Biomedical Instrumentation Division, Council of Scientific & Industrial Research-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, India; Singla, A., Department of Mechanical Engineering, Thapar University, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2018	9544119
1088	Investigating the quality characteristics of AlSi052/SiC metal matrix composites machined by CO2 laser curve cutting	Sharma V., Kumar V.	Sharma, V., Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab, India; Kumar, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207
1089	Processing and characterization of composite cladding through microwave heating on martensitic steel	Kaushal S., Sirohi V., Gupta D., Bhowmick H., Singh S.	Kaushal, S., Department of Mechanical Engineering, Thapar University Punjab, India; Sirohi, V., Department of Mechanical Engineering, Thapar University Punjab, India; Gupta, D., Department of Mechanical Engineering, Thapar University Punjab, India; Bhowmick, H., Department of Mechanical Engineering, Thapar University Punjab, India; Singh, S., Department of Mechanical Engineering, Thapar University Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207
1090	Seawater ageing of glass fiber reinforced epoxy nanocomposites based on silylated clays	Sharma B., Chhibber R., Mehta R.	Sharma, B., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Chhibber, R., Department of Mechanical Engineering, Indian Institute of Technology, Jodhpur, Rajasthan 342011, India; Mehta, R., Department of Chemical Engineering, Thapar University, Patiala, Punjab 147004, India	Polymer Degradation and Stability	2018	1413910
1091	Optimization of modified T-shape microstrip patch antenna using differential algorithm for X and ku band applications	Nitika, Khanna R., Kaur J.	Nitika, Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India	Microwave and Optical Technology Letters	2018	8952477
1092	Analysis of electrochemical behavior on micro-drilling of cast hybrid Al/(Al2O3p + SiCp + Cp)-MMC using micro-ECM process	Kalra C.S., Kumar V., Manna A.	Kalra, C.S., Department of Mechanical Engineering, Thapar University, India; Kumar, V., Department of Mechanical Engineering, Thapar University, India; Manna, A., Department of Mechanical Engineering, PEC university of Technology, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2018	14644207
1093	Evaluating the efficacy of gabor features in the discrimination of breast density patterns using various classifiers	Kriti, Virmani J., Agarwal R.	Kriti, Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India; Virmani, J., Central Scientific Instruments Organization, Chandigarh, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India	Lecture Notes in Computational Vision and Biomechanics	2018	22129391
1094	Analysis of intermediate and light mass fragments from composite systems $^{26-29}\text{Al}^*$ formed in $\text{O}^{16}, \text{N}^{14}, \text{C}^{12}$ reactions	Kaur M., Singh B., Sharma M.K., Gupta R.K.	Kaur, M., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Singh, B., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Gupta, R.K., Department of Physics, Panjab University, Chandigarh, 160014, India	Nuclear Physics A	2018	3759474

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1095	4-Nitrophenol reduction catalysed by Au-Ag bimetallic nanoparticles supported on LDH: Homogeneous vs. heterogeneous catalysis	Arora N., Mehta A., Mishra A., Basu S.	Arora, N., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Applied Clay Science	2018	1691317
1096	Fragmentation analysis of α -induced reactions using clusterization approach	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Nuclear Physics A	2018	3759474
1097	A generalized method for the segmentation of exudates from pathological retinal fundus images	Kaur J., Mittal D.	Kaur, J., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar University, Patiala, India	Biocybernetics and Biomedical Engineering	2018	2085216
1098	Aluminum and chromium substituted Z-type hexaferrites for antenna and microwave absorber applications	Basandrai D., Bedi R.K., Dhami A., Sharma J., Narang S.B., Pubby K., Gupta A., Srivastava A.K.	Basandrai, D., Department of Physics, I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India, Department of Physics, Lovely Professional University, Phagwara, Punjab, India; Bedi, R.K., Satyam Institute of Engineering & Technology, Amritsar, Punjab, India; Dhami, A., Department of Physics, Lovely Professional University, Phagwara, Punjab, India; Sharma, J., Department of Physics, Lovely Professional University, Phagwara, Punjab, India; Narang, S.B., Department of Electronic and Communication, Guru Nanak Dev University, Amritsar, Punjab, India; Pubby, K., Department of Electronic and Communication, Guru Nanak Dev University, Amritsar, Punjab, India; Gupta, A., School of Physics and Material Science, Thapar University, Patiala, Punjab, India; Srivastava, A.K., Department of Physics, Lovely Professional University, Phagwara, Punjab, India	Journal of Sol-Gel Science and Technology	2018	9280707
1099	A novel TVAC-PSO based mutation strategies algorithm for generation scheduling of pumped storage hydrothermal system incorporating solar units	Patwal R.S., Narang N., Garg H.	Patwal, R.S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	Energy	2018	3605442
1100	Effect of crosslinked polymer content on drying of binary polymer—solvent coatings	Pathania A., Sharma J., Arya R.K., Ahuja S.	Pathania, A., Department of Chemical Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India; Sharma, J., School of Chemistry and Biochemistry, Thapar University, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India	Progress in Organic Coatings	2018	3009440
1101	Optical and thermal properties of glasses and glass-ceramics derived from agricultural wastes	Sharma G., Arya S.K., Singh K.	Sharma, G., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Arya, S.K., Department of Applied Sciences, ABES Institute of Technology, Ghaziabad, UP 201009, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Ceramics International	2018	2728842
1102	Preface	Urooj S., Virmani J.	Urooj, S., Gautam Buddha University, Greater Noida, Uttar Pradesh, India; Virmani, J., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2018	21945357
1103	An optimal tree-based routing protocol using particle swarm optimization	Sohan R., Mittal N., Singh U., Sohi B.S.	Sohan, R., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab, India; Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Sohi, B.S., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab, India	Advances in Intelligent Systems and Computing	2018	21945357
1104	Detection of chronic kidney disease: A NN-GA-based approach	Hore S., Chatterjee S., Shaw R.K., Dey N., Virmani J.	Hore, S., Department of Computer Science & Engineering, HETC, Hooghly, India; Chatterjee, S., Department of Computer Science & Engineering, University of Calcutta, Kolkata, India; Shaw, R.K., Department of Computer Science & Engineering, HETC, Hooghly, India; Dey, N., Department of Computer Science & Engineering, BCET, Durgapur, India; Virmani, J., Department of EIED, Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2018	21945357
1105	Brain CT and MR image fusion framework based on stationary wavelet transform	Ram Lal S.D., Sachdeva J., Ahuja C.K., Khandelwal N.	Ram Lal, S.D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology University, Patiala, India; Sachdeva, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology University, Patiala, India; Ahuja, C.K., Department of Radio Diagnosis, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Khandelwal, N., Department of Radio Diagnosis, Postgraduate Institute of Medical Education and Research, Chandigarh, India	Advances in Intelligent Systems and Computing	2018	21945357
1106	Effect of particle size on dry sliding wear behaviour of sillimanite reinforced aluminium matrix composites	Sharma S., Nanda T., Pandey O.P.	Sharma, S., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Nanda, T., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India	Ceramics International	2018	2728842
1107	Tungsten supported Ti/SiO ₂ nanoflowers as reusable heterogeneous catalyst for biodiesel production	Kaur M., Malhotra R., Ali A.	Kaur, M., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Malhotra, R., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India	Renewable Energy	2018	9601481

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1108	Effect of Tb ³⁺ ion substitution on structural, optical and magnetic properties of CdS nanoparticles	Jindal S., Kaur K., Verma N.K., Sharma P.	Jindal, S., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kaur, K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Verma, N.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2018	9574522
1109	Energy-efficient load balancing scheme for two-tier communication in wireless sensor networks	Randhawa S., Jain S.	Randhawa, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Jain, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	Journal of Supercomputing	2018	9208542
1110	Performance of hematite particles as an Iron source for the degradation of ornidazole in photo-fenton process	Changotra R., Varshney L., Paul Guin J., Dhir A.	Changotra, R., School of Energy and Environment, Thapar University, Patiala, 147004, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Paul Guin, J., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar University, Patiala, 147004, India	Journal of Sol-Gel Science and Technology	2018	9280707
1111	An efficient and robust approach for biomedical image retrieval using Zernike moments	Kumar Y., Aggarwal A., Tiwari S., Singh K.	Kumar, Y., Department of Computer Science and Engineering, Mata Ganga Khalsa College for Girls, Ludhiana, 141001, India; Aggarwal, A., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Tiwari, S., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Singh, K., Department of Computer Science, Punjabi University, Patiala, 147002, India	Biomedical Signal Processing and Control	2018	17468094
1112	Classification of non-motor cognitive task in EEG based brain-computer interface using phase space features in multivariate empirical mode decomposition domain	Dutta S., Singh M., Kumar A.	Dutta, S., Department of Electrical and Instrumentation Engineering, Thapar University Punjab, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar University Punjab, India; Kumar, A., Central Scientific Instruments Organization Chandigarh, India	Biomedical Signal Processing and Control	2018	17468094
1113	On some results in metric spaces using auxiliary simulation functions via new functions	Liu X.-L., Ansari A.H., Chandok S., Radenović S.	Liu, X.-L., School of Science, Sichuan University of Science and Engineering, Zigong, Sichuan 643000, China, Sichuan Province University Key Laboratory of Bridge Non-destruction Detecting and Engineering Computing 643000, China; Ansari, A.H., Department of Mathematics, Karaj Branch, Islamic Azad University, Karaj, Iran; Chandok, S., School of Mathematics, Thapar University, Patiala, Punjab 147-004, India; Radenović, S., Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, Beograd, 11120, Serbia, State University of Novi Pazar, Novi Pazar, Serbia	Journal of Computational Analysis and Applications	2018	15211398
1114	Magnetorheological nano-finishing of diamagnetic material using permanent magnets tool	Kansal H., Singh A.K., Grover V.	Kansal, H., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India; Grover, V., Department of Mechanical Engineering, Thapar University, Patiala, 147004, India	Precision Engineering	2018	1416359
1115	Effective image encryption technique through 2D cellular automata	Bhardwaj R., Sharma V.	Bhardwaj, R., Department of Computer Science & Engineering, Thapar University, Patiala, Punjab, India; Sharma, V., Department of Computer Science & Engineering, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2018	21945357
1116	Classification of SQL injection attacks using fuzzy tainting	Khanna S., Verma A.K.	Khanna, S., Thapar University, Patiala, Punjab, India; Verma, A.K., Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2018	21945357
1117	An improved score function for ranking neutrosophic sets and its application to decision-making process	Nancy, Garg H.	Nancy, School of Mathematics, Thapar University, Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	International Journal for Uncertainty Quantification	2018	21525080
1118	A new fuzzy CCR data envelopment analysis model and its application to manufacturing enterprises	Bhardwaj B., Kaur J., Kumar A.	Bhardwaj, B., LMT School of Management, Thapar University, Patiala, Punjab, India; Kaur, J., School of Mathematics, Thapar University, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar University, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2018	14349922
1119	A new approach for solving CCR data envelopment analysis model under uncertainty	Bhardwaj B., Kaur J., Kumar A.	Bhardwaj, B., Thapar University, Patiala, Punjab 147004, India; Kaur, J., Thapar University, Patiala, Punjab 147004, India; Kumar, A., Thapar University, Patiala, Punjab 147004, India	Studies in Fuzziness and Soft Computing	2018	14349922
1120	Can lean lead to green? Assessment of radial tyre manufacturing processes using system dynamics modelling	Gupta V., Narayanamurthy G., Acharya P.	Gupta, V., L. M. Thapar School of Management (LMTSOM), Thapar University, Patiala, Punjab 147004, India; Narayanamurthy, G., Indian Institute of Management Kozhikode (IIMK), IIMK Campus P.O., Kunnamangalam, Kozhikode, Kerala 673570, India; Acharya, P., Industrial Engineering and Manufacturing Systems Area, National Institute of Industrial Engineering (NITIE), Mumbai, 400087, India	Computers and Operations Research	2018	3050548
1121	1-D grating based SPR biosensor for the detection of lung cancer biomarkers using Vroman effect	Teotia P.K., Kaler R.S.	Teotia, P.K., Thapar University, Optical Fiber Communication and Research Lab, Department of Electronics and Communication, Nabha Road, Patiala, 147004, India; Kaler, R.S., Thapar University, Optical Fiber Communication and Research Lab, Department of Electronics and Communication, Nabha Road, Patiala, 147004, India	Optics Communications	2018	304018

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1122	A light weight authentication protocol for IoT-enabled devices in distributed Cloud Computing environment	Amin R., Kumar N., Biswas G.P., Iqbal R., Chang V.	Amin, R., Department of Computer Science and Engineering, Thapar University Patiala-147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar University Patiala-147004, India; Biswas, G.P., Department of Computer Science and Engineering, Indian School of Mines, Dhanbad, India; Iqbal, R., Department of Computing, Faculty of Engineering, Coventry University, Coventry, United Kingdom; Chang, V., International Business School Suzhou, Xi'an Jiaotong Liverpool University, Suzhou, China	Future Generation Computer Systems	2018	0167739X
1123	Forensics for partially double compressed doctored JPEG images	Singh G., Singh K.	Singh, G., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India	Multimedia Tools and Applications	2018	13807501
1124	Synthesis of linear antenna array using flower pollination algorithm	Singh U., Salgotra R.	Singh, U., Thapar University, Patiala, Punjab, India; Salgotra, R., Chandigarh University, Mohali, Punjab, India	Neural Computing and Applications	2018	9410643
1125	Evolution of data analytics techniques: From data mining to big data mining	Bathla G., Aggarwal H., Rani R.	Bathla, G., Punjabi University, Patiala, India; Aggarwal, H., Punjabi University, Patiala, India; Rani, R., Thapar University, Patiala, India	International Journal of Advanced Science and Technology	2019	20054238
1126	Modelling stress distribution in a flexible beam using bond graph approach	Tripathi J.P.	Tripathi, J.P., Thapar Institute of Engineering and Technology, India	Applications and Techniques for Experimental Stress Analysis	2019	
1127	Tuning the band energetics of size dependent titania nanostructures for improved photo-reductive efficiency of aromatic aldehydes	Kaur Aulakh M., Pal B.	Kaur Aulakh, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Industrial and Engineering Chemistry	2019	1226086X
1128	Numerical study of bioconvection flow of nanofluids using non-Fourier's heat flux and non-Fick's mass flux theory	Aneja M., Sharma S.	Aneja, M., Thapar Institute of Engineering and Technology, School of Mathematics Patiala Punjab 147004, India; Sharma, S., Thapar Institute of Engineering and Technology, School of Mathematics Patiala Punjab 147004, India	International Journal of Modern Physics B	2019	2179792
1129	Novel results on a fixed function and their application based on the best approximation of the treatment plan for tumour patients getting intensity modulated radiation therapy (IMRT)	Dhawan P., Kaur J., Gupta V.	Dhawan, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, V., Department of Mathematics, Maharishi Markandeshwar (Deemed to be University) Haryana 133207, India	Proceedings of the Estonian Academy of Sciences	2019	17366046
1130	Influence of marble waste as partial replacement of fine aggregates on strength and drying shrinkage of concrete	Vardhan K., Siddique R., Goyal S.	Vardhan, K., Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2019	9500618
1131	Study of buoyant force acting on different fluids moving over a horizontal plate due to forced convection	Singh J., Singh C.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, C., Department of Mechanical Engineering, University College of Engineering, Punjabi University, Patiala, Punjab, 147002, India	IOP Conference Series: Materials Science and Engineering	2019	17578981
1132	Role of hydrodynamic size in colloidal and optical stability of plasmonic copper nanoparticles	Sharma P., Goyal D., Chudasama B.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147 004, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Micro and Nano Letters	2019	17500443
1133	Nine-level voltage-doubler bi-polar module for multilevel DC to AC power conversion	Bhatnagar P., Agrawal R., Dewangan N.K., Jain S.K., Gupta K.K.	Bhatnagar, P., Centre for Energy Science and Technology, Skolkovo Institute of Science and Technology, Moscow, Russian Federation; Agrawal, R., Department of Electrical and Electronics Engineering, Sagar Institute of Science and Technology, Bhopal, India; Dewangan, N.K., Department of Electrical Engineering, G H Raisoni Institute of Engineering and Technology, Nagpur, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Power Electronics	2019	17554535

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1134	Transcriptome analysis reveals plasticity in gene regulation due to environmental cues in <i>Primula sikkimensis</i> , a high altitude plant species	Gurung P.D., Upadhyay A.K., Bhardwaj P.K., Sowdhamini R., Ramakrishnan U.	Gurung, P.D., National Center for Biological Sciences (NCBS), Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru, Karnataka 560065, India, Manipal University, Manipal, India; Upadhyay, A.K., National Center for Biological Sciences (NCBS), Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru, Karnataka 560065, India, Present Address: Thapar Institute of Engineering and Technology, Department of Biotechnology, Patiala, Punjab 147004, India; Bhardwaj, P.K., Institute of Bioresource and Sustainable Development, A Natl. Inst. under Dept. of Biotechnology, Ministry of Science and Technology, Government of India, Gangtok, Sikkim 737102, India, Present Address: Institute of Bioresources and Sustainable Development, Meghalaya, 6th Mile, Upper Shillong, Meghalaya 793009, India; Sowdhamini, R., National Center for Biological Sciences (NCBS), Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru, Karnataka 560065, India; Ramakrishnan, U., National Center for Biological Sciences (NCBS), Tata Institute of Fundamental Research, GKVK Campus, Bellary Road, Bengaluru, Karnataka 560065, India	BMC Genomics	2019	14712164
1135	Feasibility of ehealth implementation in India learning from global experience	Sharma R.K., Prashar R.	Sharma, R.K., Thapar University, India; Prashar, R., Thapar University, India	Asia Pacific Journal of Health Management	2019	22043136
1136	IoT-enabled gas sensors: Technologies, applications, and opportunities	Gomes J.B.A., Rodrigues J.J.P.C., Rabêlo R.A.L., Kumar N., Kozlov S.	Gomes, J.B.A., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, 37540-000, Brazil; Rodrigues, J.J.P.C., Department of Electrical Engineering, Federal University of Piauí (UFPI), Teresina-PI, 64049-550, Brazil, Instituto de Telecomunicações, Lisboa, 1049-001, Portugal, Department of Photonics and Optoinformatics, ITMO University, Saint Petersburg, 197101, Russian Federation; Rabêlo, R.A.L., Department of Electrical Engineering, Federal University of Piauí (UFPI), Teresina-PI, 64049-550, Brazil; Kumar, N., Department of Photonics and Optoinformatics, ITMO University, Saint Petersburg, 197101, Russian Federation; Kozlov, S., Department of Computer Science and Engineering, Thapar University, Patiala (Punjab), 147004, India	Journal of Sensor and Actuator Networks	2019	22242708
1137	CNT as interconnects	Sandha K.S.	Sandha, K.S., Thapar Institute of Engineering and Technology, Patiala, India	Major Applications of Carbon Nanotube Field-Effect Transistors (CNTFET)	2019	
1138	Carbon Cloth-based Hybrid Materials as Flexible Electrochemical Supercapacitors	Mishra A., Shetti N.P., Basu S., Raghava Reddy K., Aminabhavi T.M.	Mishra, A., Department of Chemistry, Bilkent University, Cankaya, Ankara, 06008, Turkey; Shetti, N.P., Center for Electrochemical Science & Materials, Department of Chemistry, K. L. E. Institute of Technology, Gokul, Hubballi-580030, Affiliated to Visvesvaraya Technological University, Karnataka, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147004, India; Raghava Reddy, K., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia; Aminabhavi, T.M., Pharmaceutical Engineering, Sonia College of Pharmacy, Dharwad, Karnataka 580 002, India	ChemElectroChem	2019	21960216
1139	Parametric optimization of a newly developed magnetorheological honing process for internal finishing of EN-31 cylindrical workpieces	Grover V., Singh A.K.	Grover, V., Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad, 201009, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Engineering Research Express	2019	26318695
1140	Simulation study of quasi self-complementary shared-radiator for UWB-MIMO applications	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala Punjab, 147004, India; Singh, H.S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala Punjab, 147004, India; Upadhyay, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala Punjab, 147004, India	2019 IEEE Indian Conference on Antennas and Propagation, InCAP 2019	2019	
1141	Simulation study of ultra compact polarization independent dual-band metamaterial absorber	Kaur M., Singh H.S.	Kaur, M., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, Punjab, 147 004, India; Singh, H.S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, Punjab, 147 004, India	2019 IEEE Indian Conference on Antennas and Propagation, InCAP 2019	2019	
1142	SDN Based Dynamic Resource Scheduling for Large Scale Data Centers	Singh U., Dua A., Kumar N.	Singh, U., Birla Institute of Technology and Science, Computer Science and Information Systems Department, India; Dua, A., Birla Institute of Technology and Science, Computer Science and Information Systems Department, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, India	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2019	21531684
1143	Fuzzy Rough Set based Social IoT Recommender System	Dua A., Sharma P., Kumar K., Kumar N., Singh U.	Dua, A., Birla Institute of Technology and Science, Computer Science and Information Systems Department, India; Sharma, P., Birla Institute of Technology and Science, Computer Science and Information Systems Department, India; Kumar, K., Birla Institute of Technology and Science, Computer Science and Information Systems Department, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, India; Singh, U., Birla Institute of Technology and Science, Computer Science and Information Systems Department, India	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2019	21531684

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1144	Day-ahead Market Clearing of Energy and Reserve for Wind Integrated Deregulated System	Sharma A., Jain S.K.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2019 9th International Conference on Power and Energy Systems, ICPEs 2019	2019	
1145	Energy efficiency evaluation in commercial and residential buildings with demand side management: A review	Kumar P., Brar G.S., Singh L.	Kumar, P., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, 147004, India; Brar, G.S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, 147004, India; Singh, L., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, 147004, India	2019 8th International Conference on Power Systems: Transition towards Sustainable, Smart and Flexible Grids, ICPS 2019	2019	
1146	An efficient scheme for wireless charging of electric vehicles using RFID with an optimal path planning	Arora S., Goel S., Chhikara P., Singh H., Kumar N., Rana P.S.	Arora, S., Department of Computer Science, Tiet Patiala, Punjab, India; Goel, S., Department of Computer Science, Tiet Patiala, Punjab, India; Chhikara, P., Department of Computer Science, Tiet Patiala, Punjab, India; Singh, H., Department of Computer Science, Tiet Patiala, Punjab, India; Kumar, N., Department of Computer Science, Tiet Patiala, Punjab, India; Rana, P.S., Department of Computer Science, Tiet Patiala, Punjab, India	2019 IEEE Globecom Workshops, GC Wkshps 2019 - Proceedings	2019	
1147	Convolutional neural networks based plant leaf diseases detection scheme	Singh P.P., Kaushik R., Singh H., Kumar N., Rana P.S.	Singh, P.P., Department of Computer Science, Tiet Patiala, Punjab, India; Kaushik, R., Department of Computer Science, Tiet Patiala, Punjab, India; Singh, H., Department of Computer Science, Tiet Patiala, Punjab, India; Kumar, N., Department of Computer Science, Tiet Patiala, Punjab, India; Rana, P.S., Department of Computer Science, Tiet Patiala, Punjab, India	2019 IEEE Globecom Workshops, GC Wkshps 2019 - Proceedings	2019	
1148	Physical layer security of AMI data transmission in smart grid environment	Sharma H., Kumar N., Panigrahi B.K.	Sharma, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Panigrahi, B.K., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, India	2019 IEEE Globecom Workshops, GC Wkshps 2019 - Proceedings	2019	
1149	Systematic decay analysis of 202Po+ compound nucleus using Dynamical Cluster-decay Model	Kaushal P., Sharma M.K.	Kaushal, P., Department of Physics, Panjab University, Chandigarh, 160014, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engg. and Tech., Patiala, 147004, India	International Journal of Modern Physics E	2019	2183013
1150	An efficient privacy preserving computation of multiset intersection cardinality	Kaur H., Kumar N., Rodrigues J.J.P.C.	Kaur, H., Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil, Instituto de Telecomunicacoes, Portugal, Federal University of Piauí (UFPI), Teresina, PI, Brazil	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1151	An efficient scheme for path planning in internet of drones	Goyal A., Kumar N., Dua A., Kumar N., Rodrigues J.J.P.C., Jayakody D.N.K.	Goyal, A., Computer Science and Information Systems Department, Birla Institute of Technology and Science, Pilani, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Punjab, India; Dua, A., National Institute of Telecommunications (INATEL), Brazil Instituto de Telecomunicacoes, Portugal Federal University of Piauí (UFPI), Brazil; Kumar, N., Faculty of Engineering, Sri Lanka Technological Campus, Sri Lanka; Rodrigues, J.J.P.C., School of Computer Science and Robotics, National Research Tomsk Polytechnic University, Russian Federation; Jayakody, D.N.K., Computer Science and Information Systems Department, Birla Institute of Technology and Science, Pilani, India	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1152	Multi-party secure collaborative filtering for recommendation generation	Kaur H., Kumar N., Obaidat M.S.	Kaur, H., Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala, India; Obaidat, M.S., Fellow of IEEE, ECE Department Nazarbayev University, Astana, Kazakhstan, KASIT, University of Jordan, Amman, Jordan, University of Science and Technology Beijing, Beijing, China	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1153	Two-tier ensemble model for demand side prediction in smart grid environment	Singh T., Sethi A.S., Singh H., Rana P.S., Kumar N., Obaidat M.S.	Singh, T., Department of Computer Science, TIET Patiala, Punjab, India; Sethi, A.S., Department of Computer Science, TIET Patiala, Punjab, India; Singh, H., Department of Computer Science, TIET Patiala, Punjab, India; Rana, P.S., Department of Computer Science, TIET Patiala, Punjab, India; Kumar, N., ECE Department, Nazarbayev University, Astana, Kazakhstan, University of Jordan, Jordan; Obaidat, M.S., University of Science and Technology, Beijing, China	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1154	HRIDaaY: Ballistocardiogram-based heart rate monitoring using fog computing	Vohra J., Tanwar S., Tyagi S., Kumar N., Rodrigues J.J.P.C.	Vohra, J., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala (Punjab), India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala (Punjab), India; Rodrigues, J.J.P.C., Federal University of Piauí (UFPI), Teresina - PI, Brazil, Instituto de Telecomunicacoes, Portugal	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1155	Smart grid energy management using RNN-LSTM: A deep learning-based approach	Kaur D., Kumar R., Kumar N., Guizani M.	Kaur, D., School of Computer Science and Engineering, Lovely Professional University, Jalandhar, India; Kumar, R., School of Computer Science and Engineering, Lovely Professional University, Jalandhar, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, India; Guizani, M., University of Idaho, United States	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1156	Area-delay efficient and low-power carry skip adder for high performance computing systems	Patel S., Garg B., Mahajan A., Rai S.	Patel, S., ECE Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Garg, B., ECE Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mahajan, A., EandTC Department, Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India; Rai, S., ECE Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings - 2019 IEEE International Symposium on Smart Electronic Systems, ISES 2019	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1157	A novel high performance reverse carry propagate adder for energy efficient multimedia applications	Garg B., Bisht Y.	Garg, B., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bisht, Y., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings - 2019 IEEE International Symposium on Smart Electronic Systems, ISES 2019	2019	
1158	The Power of AI in IoT : Cognitive IoT-based Scheme for Web Spam Detection	Makkar A., Kumar N., Guizani M.	Makkar, A., Chandigarh University, Computer Science and Engineering Department, Chandigarh, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Guizani, M., University of Idaho, Moscow, United States	2019 IEEE Symposium Series on Computational Intelligence, SSCI 2019	2019	
1159	ARX/ARMAX Modeling and Fractional Order Control of Surface Roughness in Turning Nano-Composites	Sekhar R., Singh T.P., Shah P.	Sekhar, R., Symbiosis Institute of Technology, Symbiosis International (Deemed Univ.), Pune, India; Singh, T.P., Thapar Institute of Eng. Technol., Dept. Mechanical Engineering, Patiala, India; Shah, P., Symbiosis Institute of Technology, Symbiosis International (Deemed Univ.), Pune, India	Proceedings of the 2019 International Conference on Mechatronics, Robotics and Systems Engineering, MoRSE 2019	2019	
1160	Insights into Factors Affecting Success in Graduate Aptitude Test in Engineering for Indian Engineering Students using Learning Analytics	Mahajan E., Sahir A., Padhee S., Kumar E., Khodke P.M., Mahajan D.	Mahajan, E., Computer Science and Engineering, TIET, Patiala, India; Sahir, A., Chemical Engineering, IIT Ropar, Rupnagar, 140001, India; Padhee, S., Mechanical Engineering, IIT Ropar, Rupnagar, 140001, India; Kumar, E., National Project Implementation Unit, Ministry of Human Resource and Development, New Delhi, India; Khodke, P.M., National Project Implementation Unit, Ministry of Human Resource and Development, New Delhi, India; Mahajan, D., Mechanical Engineering, IIT Ropar, Rupnagar, 140001, India	Proceedings - IEEE 10th International Conference on Technology for Education, T4E 2019	2019	
1161	An innovative approach towards possibility fuzzy soft ordered semigroups for ideals and its application	Habib S., Garg H., Nie Y., Khan F.M.	Habib, S., Department of Applied Mathematics, School of Science, Northwestern Polytechnical University, Xi'an, 710072, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Nie, Y., Department of Applied Mathematics, School of Science, Northwestern Polytechnical University, Xi'an, 710072, China; Khan, F.M., Department of Applied Mathematics, School of Science, Northwestern Polytechnical University, Xi'an, 710072, China, Department of Mathematics and Statistics, University of Swat, Mingora, 19130, Pakistan	Mathematics	2019	22277390
1162	Predicting Damage to Buildings Caused by Earthquakes Using Machine Learning Techniques	Chaurasia K., Kanse S., Yewale A., Singh V.K., Sharma B., Dattu B.R.	Chaurasia, K., Bennett University Greater, Noida, India; Kanse, S., Smt. Indira Gandhi College of Engineering, Mumbai, India; Yewale, A., Smt. Indira Gandhi College of Engineering, Mumbai, India; Singh, V.K., ABES Engineering, Gaziabad, India; Sharma, B., Thapar University, Patiala, India; Dattu, B.R., Bennett University Greater, Noida, India	Proceedings of the 2019 IEEE 9th International Conference on Advanced Computing, IACC 2019	2019	
1163	Some novel interactive hybridweighted aggregation operators with pythagorean fuzzy numbers and their applications to decision making	Li N., Garg H., Wang L.	Li, N., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Wang, L., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China	Mathematics	2019	22277390
1164	Explaining Machine Learning-Based Classifications of In-Vivo Gastral Images	Malhi A., Kampik T., Pannu H., Madhikermi M., Framling K.	Malhi, A., Department of Computer Science, Aalto University Finland, Finland; Kampik, T., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Pannu, H., Department of Computing Science, Umea University, Sweden; Madhikermi, M., Department of Computer Science, Aalto University Finland, Finland; Framling, K., Department of Computer Science, Aalto University Finland, Finland	2019 Digital Image Computing: Techniques and Applications, DICTA 2019	2019	
1165	Linguistic Interval-Valued Atanassov Intuitionistic Fuzzy Sets and Their Applications to Group Decision Making Problems	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	IEEE Transactions on Fuzzy Systems	2019	10636706
1166	ECCAuth: A Secure Authentication Protocol for Demand Response Management in a Smart Grid System	Kumar N., Aujla G.S., Das A.K., Conti M.	Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aujla, G.S., Department of Computer Science and Engineering, Chandigarh University, Mohali, 140413, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Conti, M., Department of Mathematics, University of Padua, Padova, 35122, Italy, Department of Electrical Engineering, University of Washington, Seattle, WA 98195, United States	IEEE Transactions on Industrial Informatics	2019	15513203
1167	LOADS: Load Optimization and Anomaly Detection Scheme for Software-Defined Networks	Chaudhary R., Kumar N.	Chaudhary, R., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Vehicular Technology	2019	189545
1168	SDN-Based Internet of Autonomous Vehicles: An Energy-Efficient Approach for Controller Placement	Kaur K., Garg S., Kaddoum G., Kumar N., Gagnon F.	Kaur, K., Thapar Institute of Engineering and Technology, Patiala, India; Garg, S., Thapar Institute of Engineering and Technology, India; Kaddoum, G., Ecole Nationale Supérieure de Techniques Avancées (ENSTA), France; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India; Gagnon, F., Department of Electrical Engineering, Ecole de technologie supérieure, Canada	IEEE Wireless Communications	2019	15361284

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1169	Best approximation and fixed points for rational-type contraction mappings	Chandok S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Applied Analysis	2019	14256908
1170	Improved object recognition results using SIFT and ORB feature detector	Gupta S., Kumar M., Garg A.	Gupta, S., Department of Computer Science & Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Garg, A., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1171	A Compact Plus Shaped Carpet Fractal Antenna with an I-Shaped DGS for C-band/X-band/UWB/WIBAN applications	Kaur N., Kaur A.	Kaur, N., Antenna Testing and Research Laboratory, Electronics and Communication Engineering Department, Thapar University, Patiala, India; Kaur, A., Antenna Testing and Research Laboratory, Electronics and Communication Engineering Department, Thapar University, Patiala, India	Wireless Personal Communications	2019	9296212
1172	Effect of hydrodynamic size on colloidal stability and lifetime of Mn-Zn magnetic fluids	Kaur N., Chudasama B.	Kaur, N., Laboratory of Nanomedicine, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Chudasama, B., Laboratory of Nanomedicine, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Colloid and Polymer Science	2019	0303402X
1173	Photodeposition time dependant growth, size and photoactivity of Ag and Cu deposited TiO ₂ nanocatalyst under solar irradiation	Bhardwaj S., Dogra D., Pal B., Singh S.	Bhardwaj, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Dogra, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India	Solar Energy	2019	0038092X
1174	Ensemble Technique for Prediction of T-cell Mycobacterium tuberculosis Epitopes	Khanna D., Rana P.S.	Khanna, D., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Interdisciplinary Sciences – Computational Life Sciences	2019	19132751
1175	Smart stock exchange market: A secure predictive decentralized model	Bansal G., Hasija V., Chamola V., Kumar N., Guizani M.	Bansal, G., Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus, India; Hasija, V., Department of CSE and IT, Jaypee Institute of Information Technology, Noida, India; Chamola, V., Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Guizani, M., CSE Department, Qatar University, Qatar	2019 IEEE Global Communications Conference, GLOBECOM 2019 - Proceedings	2019	
1176	Enhanced Catalytic Activity of Nano-Fe ₂ O ₃ -MCM-48-SO ₄ as a Green Catalyst for the Esterification of Acetic Acid with Methanol	Sharma N., Guliani D., Kaur K., Verma A., Sobti A., Toor A.P.	Sharma, N., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Guliani, D., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Kaur, K., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Sobti, A., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Toor, A.P., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India, Energy Research Centre, Panjab University, Chandigarh, 160014, India	Iranian Journal of Science and Technology, Transaction A: Science	2019	10286276
1177	Analysis of computational techniques for diabetes diagnosis using the combination of iris-based features and physiological parameters	Samant P., Agarwal R.	Samant, P., Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2019	9410643
1178	The naked mole-rat algorithm	Salgotra R., Singh U.	Salgotra, R., Department of ECE, Thapar University, Patiala, Punjab, India; Singh, U., Department of ECE, Thapar University, Patiala, Punjab, India	Neural Computing and Applications	2019	9410643
1179	“Test kit” of chromogenic and ratiometric 1,10-phenanthroline based chemosensor for the recognition of F ⁻ and CN ⁻ ions	Alreja P., Kaur N.	Alreja, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, N., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Inorganic Chemistry Communications	2019	13877003
1180	Fission Dynamics and Related Aspects of 181Re ⁺ Nucleus Formed in 12C Induced Reaction	Sharma K., Sharma M.K.	Sharma, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Brazilian Journal of Physics	2019	1039733
1181	Fast and accurate synthesis of frequency reconfigurable slot antenna using back propagation network	Kumar R., Kumar P., Singh S., Vijay R.	Kumar, R., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology Punjab, India; Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, India; Vijay, R., Department of Physical Sciences, Banasthali Vidyapith Rajasthan, India	AEU - International Journal of Electronics and Communications	2019	14348411
1182	Effect of Addition of GGBS and Glass Powder on the Properties of Geopolymer Concrete	Sethi H., Bansal P.P., Sharma R.	Sethi, H., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bansal, P.P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Iranian Journal of Science and Technology - Transactions of Civil Engineering	2019	22286160

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1183	DIYA: Tactile Internet Driven Delay Assessment NOMA-Based Scheme for D2D Communication	Budhiraja I., Tyagi S., Tanwar S., Kumar N., Rodrigues J.J.P.C.	Budhiraja, I., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kumar, N., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, 37540-000, Brazil, Instituto de Telecomunicações, Lisboa, 1049-001, Portugal, Federal University of Piauí, Teresina, 64607-670, Brazil	IEEE Transactions on Industrial Informatics	2019	15513203
1184	An adaptive grid-based curvelet optimized solution for nonlinear Schrödinger equation	Sharma D., Singla R.K., Goyal K.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Modern Physics C	2019	1291831
1185	Deep learning models for traffic flow prediction in autonomous vehicles: A review, solutions, and challenges	Miglani A., Kumar N.	Miglani, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Vehicular Communications	2019	22142096
1186	Applications of doped mixed metal oxide anode for the electro-oxidation treatment and mineralization of urine metabolite, uric acid	Singla J., Verma A., Sangal V.K.	Singla, J., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India	Journal of Water Process Engineering	2019	22147144
1187	A novel study on soft ferromagnetic nature of nano molybdenum sulphide (MoS2)	Kaur N., Mir R.A., Pandey O.P.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mir, R.A., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Physica B: Condensed Matter	2019	9214526
1188	Hetero-Polysaccharides Secreted from Dunaliella salina Exhibit Immunomodulatory Activity Against Peripheral Blood Mononuclear Cells and RAW 264.7 Macrophages	Goyal M., Baranwal M., Pandey S.K., Reddy M.S.	Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, S.K., Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Indian Journal of Microbiology	2019	468991
1189	Symbol Error Rate Analysis of OFDM System with CFO Over TWDP Fading Channel	Singh D., Kumar A., Joshi H.D., Magarini M., Saxena R.	Singh, D., School of Electrical and Electronics Engineering, Lovely Professional University Punjab, India; Kumar, A., Vodafone Chair Mobile Communications Systems, Technische Universität, Dresden, Germany; Joshi, H.D., Department of ECE, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Magarini, M., Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Milan, Italy; Saxena, R., Jaypee University, Anoopshahr, Uttar Pradesh, India	Wireless Personal Communications	2019	9296212
1190	Enhancement of activated tungsten inert gas (A-TIG) welding using multi-component TiO2-SiO2-Al2O3 hybrid flux	Babbar A., Kumar A., Jain V., Gupta D.	Babbar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Measurement: Journal of the International Measurement Confederation	2019	2632241
1191	Tribological performance of Yttrium (III) and Zirconium (IV) ceramics reinforced WC-10Co4Cr cermet powder HVOF thermally sprayed on X2CrNiMo-17-12-2 steel	Singh J., Kumar S., Mohapatra S.K.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, 831014, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ceramics International	2019	2728842
1192	Efficient Volumetric Absorption Solar Thermal Platforms Employing Thermally Stable - Solar Selective Nanofluids Engineered from Used Engine Oil	Singh N., Khullar V.	Singh, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Scientific Reports	2019	20452322
1193	A hybrid energy management approach for home appliances using climatic forecasting	Kaur J., Bala A.	Kaur, J., Computer Science and Engineering Department, Thapar University, Patiala, India; Bala, A., Computer Science and Engineering Department, Thapar University, Patiala, India	Building Simulation	2019	19963599
1194	Single image dehazing using gradient channel prior	Singh D., Kumar V., Kaur M.	Singh, D., Computer Science and Engineering Department, Apex Institute of Technology, Chandigarh University, Gharuan, Mohali (Pb.), India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Pb.), India; Kaur, M., Computer Science and Engineering Department, Apex Institute of Technology, Chandigarh University, Gharuan, Mohali (Pb.), India	Applied Intelligence	2019	0924669X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1195	Multiparametric similarity measures on Pythagorean fuzzy sets with applications to pattern recognition	Peng X., Garg H.	Peng, X., School of Information Sciences and Engineering, Shaoguan University, Shaoguan, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	Applied Intelligence	2019	0924669X
1196	A nifty review to text summarization-based recommendation system for electronic products	Roul R.K., Arora K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Arora, K., Department of Computer Science, BITS Pilani-K.K.Birla Goa Campus, Zuarinagar, Goa 403726, India	Soft Computing	2019	14327643
1197	Elucidation of microstructural changes in leaves during senescence using spectral domain optical coherence tomography	Anna T., Chakraborty S., Cheng C.-Y., Srivastava V., Chiou A., Kuo W.-C.	Anna, T., National Yang-Ming University, Biophotonics and Molecular Imaging Research Center, Taipei, 11221, Taiwan; Chakraborty, S., National Yang-Ming University, Biophotonics and Molecular Imaging Research Center, Taipei, 11221, Taiwan; National Taiwan University, Graduate Institute of Photonics and Optoelectronics, Taipei, 10617, Taiwan; Cheng, C.-Y., National Yang-Ming University, Biophotonics and Molecular Imaging Research Center, Taipei, 11221, Taiwan; Srivastava, V., Thapar University, Electrical and Instrumentation Engineering Department, Patiala, 147004, India; Chiou, A., National Yang-Ming University, Biophotonics and Molecular Imaging Research Center, Taipei, 11221, Taiwan; National Yang-Ming University, Institute of Biophotonics, Taipei, 11221, Taiwan; Kuo, W.-C., National Yang-Ming University, Biophotonics and Molecular Imaging Research Center, Taipei, 11221, Taiwan; National Yang-Ming University, Institute of Biophotonics, Taipei, 11221, Taiwan	Scientific Reports	2019	20452322
1198	Photocatalytic Degradation of Bisphenol-A using Ni, Co Codoped TiO ₂ Catalyst under Solar Light	Garg A., Singhania T., Singh A., Sharma S., Rani S., Neogy A., Yadav S.R., Sangal V.K., Garg N.	Garg, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singhania, T., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, A., School of Basic Sciences, Indian Institute of Technology Mandi, Mandi, 175005, India; Sharma, S., School of Science, Sandip University, Nashik, Maharashtra 422213, India; Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Neogy, A., Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Yadav, S.R., Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Garg, N., School of Basic Sciences, Indian Institute of Technology Mandi, Mandi, 175005, India	Scientific Reports	2019	20452322
1199	Dispersion of Love waves in size-dependent substrate containing finite piezoelectric and viscoelastic layers	Goyal R., Kumar S.	Goyal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Mechanics and Materials in Design	2019	15691713
1200	A reversible and affine invariant 3D data hiding technique based on difference shifting and logistic map	Girdhar A., Kumar V.	Girdhar, A., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2019	18685137
1201	Thermal degradation kinetics of PP/PLA nanocomposite blends	Mandal D.K., Bhunia H., Bajpai P.K.	Mandal, D.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Bajpai, P.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Journal of Thermoplastic Composite Materials	2019	8927057
1202	Plant disease recognition using fractional-order Zernike moments and SVM classifier	Kaur P., Pannu H.S., Malhi A.K.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malhi, A.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Neural Computing and Applications	2019	9410643
1203	Emotional sentiment analysis for a group of people based on transfer learning with a multi-modal system	Bawa V.S., Kumar V.	Bawa, V.S., Electronics and Communications Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Electronics and Communications Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2019	9410643
1204	Character and numeral recognition for non-Indic and Indic scripts: a survey	Kumar M., Jindal M.K., Sharma R.K., Jindal S.R.	Kumar, M., Department of Computer Applications, GZS Campus College of Engineering and Technology, Bathinda, Punjab, India; Jindal, M.K., Department of Computer Science and Applications, Panjab University Regional Centre, Muktsar, Punjab, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Jindal, S.R., Computer Science and Engineering, Yadavindra College of Engineering, Talwandi Sabo, Bathinda, Punjab, India	Artificial Intelligence Review	2019	2692821
1205	Influence of incinerated biomedical waste ash on the properties of concrete	Kaur H., Siddique R., Rajor A.	Kaur, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2019	9500618
1206	Effect of nano silica and coir fiber on compressive strength and abrasion resistance of Concrete	Gupta M., Kumar M.	Gupta, M., Department of Civil Engineering, Shri Guru Gobind Singhji (SGGS) Institute of Engineering and Technology, Vishnupuri, Nanded, Maharashtra 431 606, India; Kumar, M., Department of Civil Engineering, Thapar University, Patiala, Punjab 147 004, India	Construction and Building Materials	2019	9500618

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1207	Perspectives and intensification of energy efficiency in commercial and residential buildings using strategic auditing and demand-side management	Kumar P., Brar G.S., Singh S., Nikolovski S., Baghaee H.R., Balkić Z.	Kumar, P., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Brar, G.S., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering Computing and Information Technology, Osijek, 31000, Croatia; Baghaee, H.R., Department of Electrical Engineering, Amirkabir University of Technology, Tehran, 15875-4413, Iran; Balkić, Z., Barrage d.o.o., Osijek, 31000, Croatia	Energies	2019	19961073
1208	Entrepreneurship and role of AI	Sharma A.	Sharma, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	ACM International Conference Proceeding Series	2019	
1209	Solar PV and grid based isolated converter for plug-in electric vehicles	Singh A.K., Chinmaya K.A., Badoni M.	Singh, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Chinmaya, K.A., Department of Electrical Engineering, IIT Roorkee, Roorkee, Uttarakhand 247667, India, Department of Electrical and Electronics, BMS College of Engineering, Bengaluru, 560 500, India; Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India	IET Power Electronics	2019	17554535
1210	Design and development of high power variable dual-directional radio frequency coupler	Jain A., Yadav R.P., Kumar S.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., High power ICRH Division, Institute for Plasma Research, Gandhinagar, Gujarat, 382428, India	IET Microwaves, Antennas and Propagation	2019	17518725
1211	Numerical study of pore formation in thermal spray coating process by investigating dynamics of air entrapment	Shukla R.K., Kumar A., Kumar R., Singh D., Kumar A.	Shukla, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147003, India; Kumar, A., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India; Kumar, R., Department of Mechanical Engineering, National Institute of Technology Kurukshetra, Kurukshetra, 136119, India; Singh, D., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India; Kumar, A., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India	Surface and Coatings Technology	2019	2578972
1212	Bimetallic Cu(core)@Zn(shell) co-catalyst impregnated TiO2 nanosheets (001 faceted) for the selective hydrogenation of quinoline under visible light irradiation	Bathla A., Pal B.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Industrial and Engineering Chemistry	2019	1226086X
1213	Health implications of a plant beneficial and probiotic Lactobacillus casei in foods containing the isoflavone-daidzein	Ghosh M., Balamurugan K., Ganguli A.	Ghosh, M., Department of Biotechnology, Thapar Institute of engineering and Technology, Patiala, India; Balamurugan, K., Department of Biotechnology, Alagappa University, Karaikudi, Tamil Nadu, India; Ganguli, A., SSD Project Conglomerate, PHFI, Gurgaon, India	In vitro Plant Breeding towards Novel Agronomic Traits: Biotic and Abiotic Stress Tolerance	2019	
1214	Brownmillerite and Aurivillius electrolytes for intermediate temperature solid oxide fuel cell	Kaur G., Cheng Y., Kaur M.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India; Cheng, Y., Division of Clinical Pharmacology, Department of Molecular Pharmacology and Experimental Therapeutics, Mayo Clinic, Rochester, MN, United States; Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India	Intermediate Temperature Solid Oxide Fuel Cells: Electrolytes, Electrodes and Interconnects	2019	
1215	Thermodynamics, polarizations, and intermediate temperature solid oxide fuel cell performance	Kaur G., Kumar V., Kaur M., Pickrell G., Mauro J.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India; Kumar, V., Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, India; Pickrell, G., Material Science and Engineering, Virginia Tech, Blacksburg, VA, United States; Mauro, J., College of Earth and Mineral Sciences, The Pennsylvania State UniversityPA, United States	Intermediate Temperature Solid Oxide Fuel Cells: Electrolytes, Electrodes and Interconnects	2019	
1216	Intermediate Temperature Solid Oxide Fuel Cells: Electrolytes, Electrodes and Interconnects	Kaur G.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India	Intermediate Temperature Solid Oxide Fuel Cells: Electrolytes, Electrodes and Interconnects	2019	
1217	Stacking designs and sealing principles for IT-solid oxide fuel cell	Kumar V., Kaur M., Kaur G., Arya S.K., Pickrell G.	Kumar, V., Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, India; Kaur, G., School of Physics and Material Science, Thapar University, Patiala, India; Arya, S.K., ABES Institute of Technology, Ghaziabad, India; Pickrell, G., Material Science and Engineering, Virginia TechVA, United States	Intermediate Temperature Solid Oxide Fuel Cells: Electrolytes, Electrodes and Interconnects	2019	
1218	Understanding intermediate temperature solid oxide fuel cells	Kaur M., Kaur G., Kumar V.	Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, Punjab, India; Kumar, V., Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India	Intermediate Temperature Solid Oxide Fuel Cells: Electrolytes, Electrodes and Interconnects	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1219	A multi-attribute decision making process with immediate probabilistic interactive averaging aggregation operators of T-spherical fuzzy sets and its application in the selection of solar cells	Zeng S., Garg H., Munir M., Mahmood T., Hussain A.	Zeng, S., School of Business, Ningbo University, Ningbo, 315211, China, College of Statistics and Mathematics, Zhejiang Gongshang University, Hangzhou, 310018, China, School of Management, Fudan University, Shanghai, 200433, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Munir, M., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Hussain, A., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan	Energies	2019	19961073
1220	Preface	Siddique R.	Siddique, R., Thapar Institute of Engineering and Technology, India	Self-Compacting Concrete: Materials, Properties and Applications	2019	
1221	Self-compacting concrete: Materials, properties and applications	Siddique R.	Siddique, R., Thapar Institute of Engineering and Technology, India	Self-Compacting Concrete: Materials, Properties and Applications	2019	
1222	Strength properties and microstructural analysis of self-compacting concrete incorporating waste foundry sand	Sandhu R.K., Siddique R.	Sandhu, R.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Construction and Building Materials	2019	9500618
1223	Bioheat physics for hyperthermia therapy	Singh G., Kumar N., Avti P.K.	Singh, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Avti, P.K., Department of Biophysics, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India	Application of Biomedical Engineering in Neuroscience	2019	
1224	Can EEG signal predict learners' perceived difficulty?	Kumar A., Chavan P., Mitra R.	Kumar, A., Department of Computer science and Engineering, Thapar Institute of Engineering and Technology, India; Chavan, P., IDP in Educational Technology, Indian Institute of Technology Bombay, India; Mitra, R., IDP in Educational Technology, Indian Institute of Technology Bombay, India	ICCE 2019 - 27th International Conference on Computers in Education, Proceedings	2019	
1225	A-TIG welding process for enhanced-penetration in Duplex stainless-steel: effect of activated fluxes	Tathgir S., Rathod D.W., Batish A.	Tathgir, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Thapar Technology Campus, Patiala, India; Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Thapar Technology Campus, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Thapar Technology Campus, Patiala, India	Materials and Manufacturing Processes	2019	10426914
1226	An erosion and corrosion study on thermally sprayed WC-Co-Cr powder synergized with Mo2C/Y2O3/ZrO2 feedstock powders	Singh J., Kumar S., Mohapatra S.K.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Wear	2019	431648
1227	Modeling and optimization of fixed mode dual effect (photocatalysis and photo-Fenton) assisted Metronidazole degradation using ANN coupled with genetic algorithm	Talwar S., Verma A.K., Sangal V.K.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India	Journal of Environmental Management	2019	3014797
1228	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production – A review	Mehta A., Mishra A., Basu S., Shetti N.P., Reddy K.R., Saleh T.A., Aminabhavi T.M.	Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K.L.E. Institute of Technology, Visvesvaraya Technological University, Hubballi/Karnataka 580 030, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia; Saleh, T.A., Chemistry Department, King Fahd University of Petroleum & Minerals, B.O. Box: 346, Dhahran, 31261, Saudi Arabia; Aminabhavi, T.M., Pharmaceutical Engineering, Sonia College of Pharmacy, Dharwad/Karnataka 580 002, India	Journal of Environmental Management	2019	3014797
1229	Alignment of polymer dispersed nanometric films of ferroelectric liquid crystalline molecules	Kaur R., Bhullar G.K., Raina K.K.	Kaur, R., P.G. Department of Physics, Mata Gujri College, Fatehgarh Sahib, India; Bhullar, G.K., P.G. Department of Physics, Mata Gujri College, Fatehgarh Sahib, India; Raina, K.K., Materials Research Laboratory, School of Physics and Materials Science, Thapar Institute of engineering and technology, Patiala, India, Department of Physics, DIT University, Dehradun, India	Journal of Molecular Liquids	2019	1677322
1230	Adsorption of CO2 on KOH activated carbon adsorbents: Effect of different mass ratios	Singh J., Bhunia H., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India	Journal of Environmental Management	2019	3014797

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1231	Evaluating the role of precursor concentration in facile conformal coating of sub-micrometer thick Cu ₂ ZnSnS ₄ films using non-toxic ethanol based solutions	Gupta I., Tiwari K.J., Malar P., Mohanty B.C.	Gupta, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tiwari, K.J., Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India; Malar, P., Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Surface Science	2019	1694332
1232	Performance study of an improved basin type vertical multiple effect diffusion solar still	Kaushal A.K., Mittal M.K.	Kaushal, A.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Green Energy	2019	15435075
1233	Restructuring through spin-off: impact on shareholder wealth	Aggarwal P., Garg S.	Aggarwal, P., Department of Finance, Institute of Management Technology, Ghaziabad, India, LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Garg, S., Department of Finance, LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	Managerial Finance	2019	3074358
1234	Ram pressure stripping: An analytical approach	Singh A., Gulati M., Bagla J.S.	Singh, A., Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81, Sahibzada Ajit Singh Nagar, Punjab, 140306, India; Gulati, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bagla, J.S., Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81, Sahibzada Ajit Singh Nagar, Punjab, 140306, India	Monthly Notices of the Royal Astronomical Society	2019	358711
1235	Strength and micro-structural properties of self-compacting concrete incorporating copper slag	Gupta N., Siddique R.	Gupta, N., Department of Civil Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India	Construction and Building Materials	2019	9500618
1236	Synthesis of coral like WO ₃ /g-C ₃ N ₄ nanocomposites for the removal of hazardous dyes under visible light	Singh J., Arora A., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Arora, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Alloys and Compounds	2019	9258388
1237	Tactile-internet-based telesurgery system for healthcare 4.0: An architecture, research challenges, and future directions	Gupta R., Tanwar S., Tyagi S., Kumar N.	Gupta, R., Nirma University, India; Tanwar, S., Nirma University, India; Tyagi, S., Thapar Institute of Engineering and Technology, India; Kumar, N., Thapar Institute of Engineering and Technology, India	IEEE Network	2019	8908044
1238	Role of lanthanide substitution on suitable sites in enhancing the properties of various electroceramics	Salame P.H., Kolte J.T.	Salame, P.H., Department of Physics, Institute of Chemical Technology Mumbai, Mumbai, India; Kolte, J.T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Spectroscopy of Lanthanide Doped Oxide Materials	2019	
1239	Smart Meters for Domestic Consumers: Innovative Methods for Identifying Appliances using NIALM	Semwal S., Badoni M., Saxena N.	Semwal, S., Thapar Institute of Engineering and Technology, Patiala, India; Badoni, M., Tula's Institute, Dhoolkot Dehradun, India; Saxena, N., Thapar Institute of Engineering and Technology, Patiala, India	Proceedings - 2019 Women Institute of Technology Conference on Electrical and Computer Engineering, WITCON ECE 2019	2019	
1240	Correlation between Work Function and Silicon Thickness of Double Gate Junctionless Field Effect Transistor	Narula V., Agarwal M.	Narula, V., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Patiala, Punjab, India; Agarwal, M., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Patiala, Punjab, India	Proceedings - 2019 Women Institute of Technology Conference on Electrical and Computer Engineering, WITCON ECE 2019	2019	
1241	CT Image Reconstruction using Fourth-order PDE based AD Regularization	Pathak Y., Agarwal D., Tiwari S., Khurana M.	Pathak, Y., IIIT, Department of Computer Science and Engineering, Bhopal, 462003, India; Agarwal, D., MANIT, Electronics and Communication Engineering (ECE) Department, Bhopal, 462003, India; Tiwari, S., TIET, Computer Science and Engineering Department (CSED), Patiala, 147004, India; Khurana, M., TIET, Computer Science and Engineering Department (CSED), Patiala, 147004, India	Proceedings of the IEEE International Conference Image Information Processing	2019	2640074X
1242	Internet of Things for Precision Agriculture Applications	Singh S., Alam P., Kumar P., Kaur S.	Singh, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Alam, P., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Kumar, P., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Kaur, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India	Proceedings of the IEEE International Conference Image Information Processing	2019	2640074X
1243	Architectural Survey on Internet-of-Things	Bharti M., Kumar R., Saxena S.	Bharti, M., CSE/IT, Jaypee University of Information Technology, India; Kumar, R., CSED, Thapar Institute of Engineering and Technology, India; Saxena, S., CSED, Thapar Institute of Engineering and Technology, India	Proceedings of the IEEE International Conference Image Information Processing	2019	2640074X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1244	Design and fabrication of humidity sensor for condition monitoring of breather of transformer	Kumar S., Raina K.K., Islam T.	Kumar, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Raina, K.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Islam, T., Jamia Millia Islamia, Electrical Engineering Faculty of Engineering and Technology, New Delhi, India	4th International Conference on Condition Assessment Techniques in Electrical Systems, CATCON 2019	2019	
1245	Effect of dielectric strength of mineral oil on mixing with a natural ester oil as a polar contaminant under AC stress	Uppal A., Agarwal R., Sharma P., Velandy J., Narasimhan C.S., Morde G.A.	Uppal, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Agarwal, R., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Sharma, P., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Velandy, J., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., CG Power and Industrial Solution Limited, Transformer Technology in R D, Mumbai, India; Morde, G.A., Savita Oil Technologies Limited, R D, Navi Mumbai, Mumbai, India	4th International Conference on Condition Assessment Techniques in Electrical Systems, CATCON 2019	2019	
1246	Thermal hydraulic network model for prediction of oil and temperature distribution in ester oil transformer under air natural and air forced cooling conditions	Garg A., Velandy J.	Garg, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Velandy, J., CG Power and Industrial Solution Limited, Transformer Technology in RD, Mumbai, Maharashtra, India	4th International Conference on Condition Assessment Techniques in Electrical Systems, CATCON 2019	2019	
1247	Compatibility of ester oil with transformer components and comparison with mineral oil	Garg A., Jain A., Velandy J., Narasimhan C.S., Patil J.D., Beldar S.S.	Garg, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Jain, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Velandy, J., CG Power and Industrial Solution Limited, Transformer Technology in R and D, Mumbai, Maharashtra, India; Narasimhan, C.S., Savita Oil Technologies Limited, R and D, Mumbai, India; Patil, J.D., Savita Oil Technologies Limited, R and D, Mumbai, India; Beldar, S.S., Savita Oil Technologies Limited, R and D, Mumbai, India	4th International Conference on Condition Assessment Techniques in Electrical Systems, CATCON 2019	2019	
1248	Lightning impulse polarity effect in ester oils and mineral oil for transformer applications	Sharma P., Agarwal R., Uppal A., Narasimhan C.S., Morde G.A., Velandy J.	Sharma, P., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Agarwal, R., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Uppal, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., RD Savita Oil Technologies Limited Navi Mumbai, Mumbai Maharashtra, India; Morde, G.A., RD Savita Oil Technologies Limited Navi Mumbai, Mumbai Maharashtra, India; Velandy, J., Transformer Technology in R D CG Power and Industrial Solutions Limited Kanjur Marg (E), Mumbai Maharashtra, India	4th International Conference on Condition Assessment Techniques in Electrical Systems, CATCON 2019	2019	
1249	A Study on Power Quality Improvement by Active Power Filter in Hybrid Sustainable Energy Systems	Roy A.K., Biswal G.R., Basak P.	Roy, A.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Biswal, G.R., Veer Surendra Sai Institute of Engineering and Technology, Department of Electrical Engineering and EEE, Sambalpur, India; Basak, P., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	2019 International Conference on Power Electronics, Control and Automation, ICPECA 2019 - Proceedings	2019	
1250	Exploring numerical calculations with CalcNet	Rana A., Malhi A., Framling K.	Rana, A., Thapar Institute of Engg. and Tech. India, India; Malhi, A., Aalto University Finland, Finland; Framling, K., Umeå University Sweden, Sweden	Proceedings - International Conference on Tools with Artificial Intelligence, ICTAI	2019	10823409
1251	Development of RGB LED Based Compact Multipurpose Colorimeter for Hemoglobin Estimation of Blood	Malhotra A., Sandhu A.S., Singh M.	Malhotra, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Sandhu, A.S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Singh, M., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India	2019 IEEE International Conference on Electrical, Control and Instrumentation Engineering, ICECIE 2019 - Proceedings	2019	
1252	Investigation of hub genes and their nonsynonymous single nucleotide polymorphism analysis in Plasmodium falciparum for designing therapeutic methodologies using next-generation sequencing approach	Singh S., Reddy S.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Reddy, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India	Indian Journal of Pharmacology	2019	2537613
1253	Blockchain-Based Mutual-Healing Group Key Distribution Scheme in Unmanned Aerial Vehicles Ad-Hoc Network	Li X., Wang Y., Vijayakumar P., He D., Kumar N., Ma J.	Li, X., School of Cyber Engineering, Xidian University, Xian, Shaanxi, China; Wang, Y., School of Cyber Engineering, Xidian University, Xian, Shaanxi, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, Tamil Nadu, India; He, D., State Key Lab of Software Engineering, Computer School, Wuhan University, Wuhan, China; Kumar, N., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ma, J., School of Cyber Engineering, Xidian University, Xian, Shaanxi, China	IEEE Transactions on Vehicular Technology	2019	189545

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1254	Tree-Based Attack-Defense Model for Risk Assessment in Multi-UAV Networks	Garg S., Aujla G.S., Kumar N., Batra S.	Garg, S., École de Technologie SupérieureUniversité du Québec, Montreal, QC, Canada; Aujla, G.S., School of Computing, Newcastle University, United Kingdom, Computer Science and Engineering Department, Chandigarh University, Mohali, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Consumer Electronics Magazine	2019	21622248
1255	Molecular insights into the inhibitory mechanism of bi-functional bis-tryptoline triazole against β -secretase (BACE1) enzyme	Narang S.S., Goyal D., Goyal B.	Narang, S.S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Amino Acids	2019	9394451
1256	Biodiesel production from Terminalia bellerica using eggshell-based green catalyst: An optimization study with response surface methodology	Marwaha A., Rosha P., Mohapatra S.K., Mahla S.K., Dhir A.	Marwaha, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Rosha, P., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mahla, S.K., Department of Mechanical Engg., I.K. Gujral Punjab Technical University, Hoshiarpur, 146001, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Energy Reports	2019	23524847
1257	Thermal decomposition of ferritin core	Kaur N., Tiwari S.D.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Physics A: Materials Science and Processing	2019	9478396
1258	Sense disambiguation for Punjabi language using supervised machine learning techniques	Singh V.P., Kumar P.	Singh, V.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2019	2562499
1259	Analysis of Temperature-Dependent Functional and Dynamic Crosstalk Noise in Adjacent Interconnects of Doped Multilayer Graphene Nanoribbon with Armchair and Zigzag Edges	Kaur T., Rai M.K., Khanna R.	Kaur, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Physica Status Solidi (A) Applications and Materials Science	2019	18626300
1260	An Improved Illumination Normalization and Robust Feature Extraction Technique for Face Recognition Under Varying Illuminations	Yadav J., rajpal N., Mehta R.	Yadav, J., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; rajpal, N., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Mehta, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Arabian Journal for Science and Engineering	2019	2193567X
1261	Performance Optimization of Cognitive Decision Engine for CR-Based IoTs Using Various Parameter-Less Meta-Heuristic Techniques	Kaur A., Sharma S., Mishra A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Arabian Journal for Science and Engineering	2019	2193567X
1262	The microstructure and wear behaviour of garnet particle reinforced Al matrix composites	Kumar S., Sharma A., Arora R., Pandey O.P.	Kumar, S., Terminal Ballistics Research Laboratory (TBRL), Defence Research and Development Organization (DRDO), India; Sharma, A., Department of Physics, PGCG, Sector-11, Chandigarh, 160011, India; Arora, R., Department of Physics, PGCG, Sector-11, Chandigarh, 160011, India; Pandey, O.P., Metallurgical Research Lab, SPMS, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Materials Research and Technology	2019	22387854
1263	Experimental and numerical analysis of a nonlinear pin fin with temperature dependent properties and disparate boundary conditions	Singh S., Singla R.K.	Singh, S., Thapar Institute of Engineering and Technology, Patiala, India; Singla, R.K., Thapar Institute of Engineering and Technology, Patiala, India	International Communications in Heat and Mass Transfer	2019	7351933
1264	An energy efficient stable clustering approach using fuzzy extended grey wolf optimization algorithm for WSNS	Mittal N., Singh U., Salgotra R., Sohi B.S.	Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Sohi, B.S., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India	Wireless Networks	2019	10220038
1265	Mechanical dry particle coating on cohesive pharmaceutical powders for improving flowability - A review	Sharma R., Setia G.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Setia, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Powder Technology	2019	325910

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1266	Modelling pressure drop in bends for pneumatic conveying of fine powders	Sharma A., Mallick S.S.	Sharma, A., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mallick, S.S., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Powder Technology	2019	325910
1267	Biodegradation kinetic modeling of oxo-biodegradable polypropylene/polylactide/nanoclay blends and composites under controlled composting conditions	Sable S., Mandal D.K., Ahuja S., Bhunia H.	Sable, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, (Deemed to be University), Bhadson Road, Patiala, Punjab 147004, India; Mandal, D.K., Department of Chemical Engineering, Sant Longowal Institute of Engineering and Technology, Deemed to Be University Under MHRD, Govt of India, Longowal, Punjab 148106, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, (Deemed to be University), Bhadson Road, Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, (Deemed to be University), Bhadson Road, Patiala, Punjab 147004, India	Journal of Environmental Management	2019	3014797
1268	Multimedia blog volume prediction using adaptive neuro fuzzy inference system and evolutionary algorithms	Kaur H., Pannu H.S., Malhi A.K.	Kaur, H., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Malhi, A.K., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Multimedia Tools and Applications	2019	13807501
1269	Treatment of uncertainties in seismic fragility assessment of RC frames with masonry infill walls	Choudhury T., Kaushik H.B.	Choudhury, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaushik, H.B., Department of Civil Engineering, Indian Institute of Technology Guwahati781039, India	Soil Dynamics and Earthquake Engineering	2019	2677261
1270	Generalized Bernstein–Durrmeyer operators of blending type	Kajla A., Goyal M.	Kajla, A., Department of Mathematics, Central University of Haryana, Mahendragarh, Haryana 123031, India; Goyal, M., School of Mathematics, Thapar University, Patiala, India	Afrika Matematika	2019	10129405
1271	On Some Improved Versions of Whale Optimization Algorithm	Salgotra R., Singh U., Saha S.	Salgotra, R., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Saha, S., Department of CSE, Indian Institute of Technology, Patna, India	Arabian Journal for Science and Engineering	2019	2193567X
1272	Electronic states of Zintl-phase solar-cell material BaSi2	Imai M., Kumar M., Umezawa N.	Imai, M., Research Center for Functional Materials, National Institute for Materials ScienceIbaraki 305-0047, Japan; Kumar, M., School of Physics and Materials Sciences, Thapar University, Patiala, Punjab 147004, India; Umezawa, N., International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan	Scripta Materialia	2019	13596462
1273	Design and development of low radar cross section antenna using hybrid metamaterial absorber	Sharma A., Panwar R., Khanna R.	Sharma, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Panwar, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, Madhya Pradesh, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Microwave and Optical Technology Letters	2019	8952477
1274	Agro-waste ash and mineral oxides derived glass-ceramics and their interconnect study with Crofer 22 APU for SOFC application	Sharma G., Singh K.	Sharma, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2019	2728842
1275	Hygrothermal effects on mechanical joints prepared from fiber reinforced plastic nanocomposites	Singh K., Saini J.S., Bhunia H., Chowdhury S.R.	Singh, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chowdhury, S.R., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra, India	Journal of Composite Materials	2019	219983
1276	Mechanical properties of bioactive glasses, ceramics, glass-ceramics and composites: State-of-the-art review and future challenges	Kaur G., Kumar V., Bairo F., Mauro J.C., Pickrell G., Evans I., Bretcanu O.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147001, India; Kumar, V., Shri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Bairo, F., Applied Science and Technology Department (DISAT), Politecnico di Torino, Turin, 10129, Italy; Mauro, J.C., College of Earth and Mineral Sciences, The Pennsylvania State UniversityPA 16802, United States; Pickrell, G., Material Science and Engineering, Virginia TechVA 24060, United States; Evans, I., School of Engineering, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom; Bretcanu, O., School of Engineering, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom	Materials Science and Engineering C	2019	9284931

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1277	Selenium and Other Elements in Wheat (<i>Triticum aestivum</i>) and Wheat Bread from a Seleniferous Area	Skalnaya M.G., Tinkov A.A., Prakash N.T., Ajsuvakova O.P., Jaiswal S.K., Prakash R., Grabeklis A.R., Kirichuk A.A., Zhuchenko N.A., Regula J., Zhang F., Guo X., Skalny A.V.	Skalnaya, M.G., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, 119146, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation; Tinkov, A.A., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, 119146, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation; Prakash, N.T., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ajsuvakova, O.P., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, 119146, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation; Jaiswal, S.K., Marwadi University, Rajkot, 360003, India; Prakash, R., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Grabeklis, A.R., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, 119146, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation; Kirichuk, A.A., Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation; Zhuchenko, N.A., IM Sechenov First Moscow State Medical University, Moscow, 119146, Russian Federation; Regula, J., Poznan University of Life Sciences, Poznan, 60624, Poland; Zhang, F., School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Guo, X., School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Skalny, A.V., Yaroslavl State University, Yaroslavl, 150000, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, 119146, Russian Federation, Peoples' Friendship University of Russia (RUDN University), Moscow, Russian Federation, Federal Research Centre of Biological Systems and Agro-technologies of the Russian Academy of Sciences, Orenburg, 460000, Russian Federation	Biological Trace Element Research	2019	1634984
1278	The multi-faceted high order polymorphic synergistic interactions among nucleotide excision repair genes increase the risk of lung cancer in North Indians	Lawania S., Singh A., Sharma S., Singh N., Behera D.	Lawania, S., Department of Biotechnology, Thapar UniversityPunjab 147002, India; Singh, A., Department of Biotechnology, Thapar UniversityPunjab 147002, India; Sharma, S., Department of Biotechnology, Thapar UniversityPunjab 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Sector 14, Chandigarh, India	Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis	2019	275107
1279	Multi-Resonating Structures for Broadband Impedance Matching in Ultrawideband Antenna	Negi D., Khanna R., Kaur J.	Negi, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2019	9296212
1280	Sensorless DC-link control approach for three-phase grid integrated PV system	Kumar V., Singh M.	Kumar, V., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab 147004, India; Singh, M., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab 147004, India	International Journal of Electrical Power and Energy Systems	2019	1420615
1281	Convolution Theorem with Its Derivatives and Multiresolution Analysis for Fractional S-Transform	Ranjan R., Singh A.K., Jindal N.	Ranjan, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Circuits, Systems, and Signal Processing	2019	0278081X
1282	Compact meandered RFID tag antenna with high read range for UHF band applications	Bansal A., Sharma S., Khanna R.	Bansal, A., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Khanna, R., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	International Journal of RF and Microwave Computer-Aided Engineering	2019	10964290
1283	Blending-type approximation by generalized Lupaş–Durrmeyer-type operators	Goyal M., Kajla A.	Goyal, M., School of Mathematics, Thapar University, Patiala, India; Kajla, A., Department of Mathematics, Central University of HaryanaHaryana 123031, India	Boletin de la Sociedad Matematica Mexicana	2019	1405213X
1284	Generalized Ant Colony Optimizer: swarm-based meta-heuristic algorithm for cloud services execution	Kumar A., Bawa S.	Kumar, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computing	2019	0010485X
1285	On mock theta functions and weight-attached Frobenius partitions	Sharma S., Rana M.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ramanujan Journal	2019	13824090
1286	A Comprehensive Review of Computational Dehazing Techniques	Singh D., Kumar V.	Singh, D., Thapar institute of engineering and technology, Patiala, Punjab 147001, India; Kumar, V., Thapar institute of engineering and technology, Patiala, Punjab 147001, India	Archives of Computational Methods in Engineering	2019	11343060
1287	Color image encryption approach based on memetic differential evolution	Kaur M., Kumar V., Li L.	Kaur, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Li, L., School of Internet of Things Engineering, Jiangnan University, Wuxi, 214122, China	Neural Computing and Applications	2019	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1288	An energy-aware cluster-based stable protocol for wireless sensor networks	Mittal N., Singh U., Sohi B.S.	Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Sohi, B.S., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India	Neural Computing and Applications	2019	9410643
1289	Authenticated key agreement scheme for fog-driven IoT healthcare system	Jia X., He D., Kumar N., Choo K.-K.R.	Jia, X., School of Mathematics and Statistics, South-Central University for Nationalities, Wuhan, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, TX 78249, United States, Department of Electrical and Computer Engineering, The University of Texas at San Antonio, San Antonio, TX 78249, United States	Wireless Networks	2019	10220038
1290	Application of rubberized cement-based composites in pavements: Suitability and considerations	Pham P.N., Zhuge Y., Turatsinze A., Toumi A., Siddique R.	Pham, P.N., School of NBE, University of South Australia, Adelaide, Australia, Faculty of Bridge and Road Engineering, The University of Danang – University of Science and Technology, 54 Nguyen Luong Bang Str, Danang, Viet Nam; Zhuge, Y., School of NBE, University of South Australia, Adelaide, Australia; Turatsinze, A., LMDC, INSAT/UPS Génie Civil, 135 Avenue de Ranguel, Toulouse Cedex 04, 31077, France; Toumi, A., LMDC, INSAT/UPS Génie Civil, 135 Avenue de Ranguel, Toulouse Cedex 04, 31077, France; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2019	9500618
1291	Effect of fly ash and metakaolin on pervious concrete properties	Saboo N., Shivhare S., Kori K.K., Chandrappa A.K.	Saboo, N., Department of Civil Engineering, Indian Institute of Technology (BHU), Varanasi, India; Shivhare, S., Department of Civil Engineering, Indian Institute of Technology (BHU), Varanasi, India; Kori, K.K., Department of Civil Engineering, Indian Institute of Technology (BHU), Varanasi, India; Chandrappa, A.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Construction and Building Materials	2019	9500618
1292	Magnetorheological finishing of micro-punches for enhanced performance of micro-extrusion process	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Materials and Manufacturing Processes	2019	10426914
1293	Identification of Android malware using refined system calls	Deepa K., Radhamani G., Vinod P., Shojafar M., Kumar N., Conti M.	Deepa, K., Research and Development Centre, Bharathiar University Coimbatore, India; Radhamani, G., Department of IT and Science, Dr. GRD College of Science Coimbatore, India; Vinod, P., Department of Mathematics, University of Padua Padua, Italy; Shojafar, M., Department of Mathematics, University of Padua Padua, Italy, Department of Computer Science, Ryerson University Toronto, Canada; Kumar, N., Thapar Institute of Engineering and Technology Punjab, India; Conti, M., Department of Mathematics, University of Padua Padua, Italy	Concurrency and Computation: Practice and Experience	2019	15320626
1294	Cul-catalyzed highly regioselective C[sbnd]H functionalization of indoles using indole-3-tosylhydrazones as carbene precursor: An efficient synthesis of 3,3-bis(indolyl)methane derivatives	Kamboj P., Dutt S., Chakraborty S., Tyagi V.	Kamboj, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Dutt, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Chakraborty, S., Institute of Science and Supramolecular Engineering, CNRS, 7006 UMR University of Strasbourg, 8 rue Gaspard Monge, Strasbourg, 67000, France; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India	Tetrahedron Letters	2019	404039
1295	An evident prescience of determinants of dividend policy of Indian real estate companies: An empirical analysis using co-integration regression and generalised method of moments	Sharma R.K., Bakshi A.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Bakshi, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Financial Management of Property and Construction	2019	13664387
1296	Effective design and development of hybrid ABC-CSO-based capacitor placement with load forecasting based on artificial neural network	Sharma S., Ghosh S.	Sharma, S., Department of Electrical Engineering, Government Polytechnic College, Ambala, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Assembly Automation	2019	1445154
1297	Sensing, Controlling, and IoT Infrastructure in Smart Building: A Review	Verma A., Prakash S., Srivastava V., Kumar A., Mukhopadhyay S.C.	Verma, A., Thapar Institute of Engineering and Technology, EIED, Patiala, 147004, India; Prakash, S., Thapar Institute of Engineering and Technology, EIED, Patiala, 147004, India; Srivastava, V., Electrical and Computer Engineering Department, University of California Los Angeles, Los Angeles, CA 90095, United States; Kumar, A., Council of Scientific and Industrial Research, Central Building Research Institute Roorkee (CSIR-CBRI), Roorkee, 247667, India; Mukhopadhyay, S.C., Macquarie University, Sydney, NSW 2109, Australia	IEEE Sensors Journal	2019	1530437X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1298	Effective synthesis of benzimidazoles-imidazo[1,2-a]pyrazine conjugates: A comparative study of mono-and bis-benzimidazoles for antitumor activity	Singh I., Luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	European Journal of Medicinal Chemistry	2019	2235234
1299	Effect of multiple passes on Lüders/yield plateaus, microstructure and tensile behaviour of narrow-gap thick-section weld plates	Rathod D.W., Sun Y., Obasi G., Roy M.J.	Rathod, D.W., School of Mechanical, Aerospace and Civil Engineering, The University of Manchester, Manchester, M13 9PL, United Kingdom, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sun, Y., School of Mechanical, Aerospace and Civil Engineering, The University of Manchester, Manchester, M13 9PL, United Kingdom; Obasi, G., School of Materials, The University of Manchester, Manchester, M13 9PL, United Kingdom; Roy, M.J., School of Mechanical, Aerospace and Civil Engineering, The University of Manchester, Manchester, M13 9PL, United Kingdom	Journal of Materials Science	2019	222461
1300	Blockchain for smart communities: Applications, challenges and opportunities	Aggarwal S., Chaudhary R., Aujja G.S., Kumar N., Choo K.-K.R., Zomaya A.Y.	Aggarwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chaudhary, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Aujja, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, TX 78249, United States, School of Information Technology and Mathematical Sciences, University of South Australia, Adelaide, SA 5095, Australia; Zomaya, A.Y., School of Information Technologies, University of Sydney, Sydney, NSW 2006, Australia	Journal of Network and Computer Applications	2019	10848045
1301	Improved homomorphic filtering using fractional derivatives for enhancement of low contrast and non-uniformly illuminated images	Kaur K., Jindal N., Singh K.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1302	Synthesis of sulphur enriched carbon monoliths for dynamic CO2 capture	Singh J., Bhunia H., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India	Chemical Engineering Journal	2019	13858947
1303	Recent developments in ionic liquid-based electrolytes for energy storage supercapacitors and rechargeable batteries	Mishra A., Shetti N.P., Basu S., Reddy K.R., Aminabhavi T.M.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Shetti, N.P., Department of Chemistry, KLE Institute of Technology, Hubballi, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW, Australia; Aminabhavi, T.M., Soniya College of Pharmacy, Dharwad, India	Green Sustainable Process for Chemical and Environmental Engineering and Science: Ionic Liquids as Green Solvents	2019	
1304	Performance comparison of evolutionary algorithms in the design of a hand-pump shape microstrip antenna for 5g applications	Kaur N., Sharma S., Kaur J.	Kaur, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Elektronika ir Elektrotehnika	2019	13921215
1305	Plant tissue culture for commercial propagation of economically important plants	Aggarwal D., Kumar A., Kumar A.	Aggarwal, D., Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, Haryana, 133207, India; Kumar, A., TIFAC-Center of Relevance and Excellence in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Kumar, A., Department of Biotechnology, College of Natural and Computational Science, Debre Markos University, Debre Markos, Ethiopia	Industrial Biotechnology: Plant Systems, Resources and Products	2019	
1306	Breast cancer detection using frequency modulated thermal wave imaging	Sharma A., Dua G., Mulaveesala R.	Sharma, A., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Rupnagar, India; Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mulaveesala, R., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Rupnagar, India	Imaging Science Journal	2019	13682199
1307	Improving Organizational Performance Through Competitive Advantage: An Empirical Analysis with Reference to Indian IT Industry	Kaur R., Sharma R.K., Goyal S.	Kaur, R., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, R.K., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India; Goyal, S., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Asia-Pacific Business	2019	10599231

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1308	Polymorphisms in GSTM1 and GSTT1 influence the response and treatment outcome in lung cancer patients treated with platinum-based chemotherapy	Walia H.K., Verma U., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar University, Patiala, India; Verma, U., Department of Biotechnology, Thapar University, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, India	British Journal of Biomedical Science	2019	9674845
1309	Strength and Abrasion Resistance of Roller Compacted Concrete Incorporating Ggbs and Two Types of Coarse Aggregates	Saluja S., Goyal S., Bhattacharjee B.	Saluja, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147-004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147-004, India; Bhattacharjee, B., Department of Civil Engineering, Indian Institute of Technology, HauzKhas, New Delhi, 110-016, India	Advances in Concrete Construction	2019	22875301
1310	Facile synthesis of carbon nanospheres from saccharides for photocatalytic applications	Gupta A., Kour R., Brar L.K.	Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kour, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	SN Applied Sciences	2019	25233971
1311	Status of materials and device modelling for kesterite solar cells	Hood S.N., Walsh A., Persson C., Iordanidou K., Huang D., Kumar M., Jehl Z., Courel M., Lauwaert J., Lee S.	Hood, S.N., Department of Materials, Imperial College London, Exhibition Road, London, SW7 2AZ, United Kingdom; Walsh, A., Department of Materials, Imperial College London, Exhibition Road, London, SW7 2AZ, United Kingdom, Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Persson, C., University of Oslo, Department of Physics, Oslo, 0316, Norway, KTH Royal Institute of Technology, Department of Materials Science and Engineering, Stockholm, 10044, Sweden; Iordanidou, K., University of Oslo, Department of Physics, Oslo, 0316, Norway; Huang, D., Guangxi University, School of Physical Science and Technology, Guangxi Key Laboratory of Processing for Non-Ferrous Metallic and Featured Materials, Nanning, 530004, China; Kumar, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Jehl, Z., Institut de Recerca en Energia de Catalunya (IREC), Jardins de les Dones de Negre, 1, 2ª pl., Sant Adrià de Besòs, Barcelona, 08930, Spain; Courel, M., Centro Universitario de los Valles (CUValles), Universidad de Guadalajara, Carretera Guadalajara-Ameca Km. 45.5, C.P., Ameca, Jalisco, 46600, Mexico; Lauwaert, J., Department of Electronics and Information Systems, Ghent University, Zwijnaarde, B-9052, Belgium; Lee, S., Department of Electronics and Computer Engineering Technology, Indiana State University, Terre Haute, IN 47809, United States	JPhys Energy	2019	25157655
1312	Machine Learning Methods Analysis for Calories Measurement of Fruits and Vegetables	Mittal M., Dhingra G., Kumar V.	Mittal, M., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, India; Dhingra, G., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, India; Kumar, V., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, India	Proceedings of IEEE International Conference on Signal Processing, Computing and Control	2019	26438615
1313	Generalized Framework for Higher-order Fractional Derivatives - From Riemann-Liouville to Atangana-Baleanu	Gupta A., Kumar S.	Gupta, A., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of IEEE International Conference on Signal Processing, Computing and Control	2019	26438615
1314	Neuro-FGA Based Machine Translation System for Sanskrit to Hindi Language	Singh M., Kumar R., Chana I.	Singh, M., Thapar Institute of Engineering and Technology, Department of CSE, Patiala, Punjab, India; Kumar, R., Thapar Institute of Engineering and Technology, Department of CSE, Patiala, Punjab, India; Chana, I., Thapar Institute of Engineering and Technology, Department of CSE, Patiala, Punjab, India	2019 International Conference on Innovative Sustainable Computational Technologies, CISCT 2019	2019	
1315	Designing a strategic framework for stimulating agri-biotech sector performance through productivity and competitive factors: An emerging economy case	Kiran R., Singh S.	Kiran, R., Thapar Institute of Engineering and Technology, School of Humanities and Social Sciences, Patiala, Punjab 147004, India; Singh, S., Shri Guru Garanth Sahib University, Fatehbarh Sahib, India	Custos e Agronegocio	2019	18082882
1316	Gain Optimization of novel Raman-Parametric Hybrid amplifier for narrow channel Wavelength Division Multiplexed systems	Kaur G.	Kaur, G., ECED Thapar Institute of Engg. Tech, Patiala, India	2019 IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2019	2019	
1317	Improving Load Forecasting and Renewable Energy Management for Green Computing using FIS, PSO and Catfish	Gill B.B., Singh M., Kakkar A.	Gill, B.B., University of British Columbia, Department of Electrical and Computer, Vancouver, Canada; Singh, M., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kakkar, A., T.I.E.T., Department of ECE, Patiala, India	2019 IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2019	2019	
1318	Design of a FSS Bandpass Filter for C-Band Application with Equivalent Circuit Model	Khan M.S., Bhattacharyya S.	Khan, M.S., Thapar Institute of Engineering Technology, Department of Electronics and Communication Engineering, Patiala, Punjab, 147004, India; Bhattacharyya, S., Indian Institute of Technology (BHU), Department of Electronics Engineering, Varanasi, Uttar Pradesh, 221005, India	IEEE Region 10 Annual International Conference, Proceedings/TENCON	2019	21593442

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1319	Temperature-dependent analysis of Crosstalk noise in Capacitively Coupled Interconnects for Mixed Carbon Nanotubes Bundle	Sharma M., Rai M.K., Khanna R.	Sharma, M., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Rai, M.K., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	IEEE Region 10 Annual International Conference, Proceedings/TENCON	2019	21593442
1320	Influence of Temperature Variation on Frequency Spectrum Analysis of Intercalation Doped MLG NR Interconnects	Kaur T., Rai M.K., Khanna R.	Kaur, T., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, India; Rai, M.K., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, India	IEEE Region 10 Annual International Conference, Proceedings/TENCON	2019	21593442
1321	Toxicity prediction of small drug molecules of androgen receptor using multilevel ensemble model	Gupta V.K., Rana P.S.	Gupta, V.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Bioinformatics and Computational Biology	2019	2197200
1322	Rain prediction using fuzzy logic	Singla M.K., Kaur H.D., Nijhawani P.	Singla, M.K., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, H.D., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawani, P., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Engineering and Advanced Technology	2019	22498958
1323	Performance analysis of double-gate carbon-nanotube fet and mosfet for high speed integrated circuits design	Lakhanpal A., Sandha K.S.	Lakhanpal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sandha, K.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Engineering and Advanced Technology	2019	22498958
1324	Optimizing interaction parameters of various thermodynamics models using MATLAB to estimate activity coefficients of azeotropic mixtures	Singh P., Sharma P.	Singh, P., Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, P., Energy Research Centre, Panjab University, Chandigarh, India	International Journal of Engineering and Advanced Technology	2019	22498958
1325	Solar-PV & fuel cell based hybrid power solution for remote locations	Singla M.K., Nijhawani P., Oberoi A.S.	Singla, M.K., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawani, P., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., ME Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Engineering and Advanced Technology	2019	22498958
1326	Thermogenesis mitigation using ultrasonic actuation during bone grinding: a hybrid approach using CEM43°C and Arrhenius model	Babbar A., Jain V., Gupta D.	Babbar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	16785878
1327	Blending type approximation by complex Szász-Durrmeyer-Chlodowsky operators in compact disks	Goyal M., Agrawal P.N.	Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India; Agrawal, P.N., Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India	Mathematica Slovaca	2019	1399918
1328	Determination of Johnson Cook parameters in turning of micro and nano reinforced aluminum composites using trust region reflective algorithm	Sekhar R., Singh T.P.	Sekhar, R., Symbiosis Institute of Technology (SIT), Symbiosis International (Deemed University) (SIU), Pune, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1329	A sampling theorem for fractional S-transform with error estimation	Ranjan R., Jindal N., Singh A.K.	Ranjan, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Digital Signal Processing: A Review Journal	2019	10512004
1330	Higher-order iteration schemes for solving nonlinear systems of equations	Alqahtani H.F., Behl R., Kansal M.	Alqahtani, H.F., Department of Mathematics, King Abdulaziz University, Campus Rabigh, 21911, Saudi Arabia; Behl, R., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mathematics	2019	22277390
1331	Design, optimization and critical analysis of graphene based surface plasmon resonance sensor for DNA hybridization	Kumar Y., Mishra R., Panwar E., Kaur J., Panwar R.	Kumar, Y., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, India; Mishra, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, India; Panwar, E., Department of Biotechnology, Indian Institute of Technology Roorkee (IIT Roorkee), Roorkee, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Panwar, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, India	Optical and Quantum Electronics	2019	3068919

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1332	A Provably Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment	Banerjee S., Odelu V., Das A.K., Srinivas J., Kumar N., Chattopadhyay S., Choo K.-K.R.	Banerjee, S., Department of Information Technology, Jadavpur University Salt Lake City, Kolkata, 700 098, India; Odelu, V., Department of Computer Science and Information Systems, Pilani Hyderabad Campus, Birla Institute of Technology and Science, Hyderabad, 500 078, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Srinivas, J., Jindal Global Business School, O. P. Jindal Global University, Haryana, 131001, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Chattopadhyay, S., Department of Information Technology, Jadavpur University Salt Lake City, Kolkata, 700 098, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Internet of Things Journal	2019	23274662
1333	Bond graph approach for dynamic modelling of the biped robot and application to obstacle avoidance	Singh R., Bera T.K.	Singh, R., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Bera, T.K., Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	16785878
1334	An Efficient and Provably Secure Authenticated Key Agreement Protocol for Fog-Based Vehicular Ad-Hoc Networks	Ma M., He D., Wang H., Kumar N., Choo K.-K.R.	Ma, M., College of Information Science and Engineering, Henan University of Technology, Zhengzhou, 450001, China; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; Wang, H., Jiangsu Key Laboratory of Big Data Security and Intelligent Processing, School of Computer Science, Nanjing University of Posts and Telecommunications, Nanjing, 210023, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Internet of Things Journal	2019	23274662
1335	Switched capacitors 9-level module (SC9LM) with reduced device count for multilevel DC to AC power conversion	Bhatnagar P., Agrawal R., Dewangan N.K., Jain S.K., Gupta K.K.	Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Agrawal, R., Sagar Institute of Science and Technology, Bhopal, India; Dewangan, N.K., National Institute of Technology, Raipur, Chhattisgarh, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IET Electric Power Applications	2019	17518660
1336	An efficient and secure certificateless aggregate signature from bilinear maps	Kumar P., Sharma V., Sharma G., Bhatia T.	Kumar, P., School of Computing Science and Engineering, Galgotias University, Delhi, India; Sharma, V., Amity School of Engineering, Amity University, Noida, India; Sharma, G., Département d'Informatique, Université Libre de Bruxelles, Bruxelles, Belgium; Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India	International Journal of Information Security and Privacy	2019	19301650
1337	Image encryption method using dependable multiple chaotic logistic functions	Gupta R., Pachauri R., Singh A.K.	Gupta, R., Jaypee University of Engineering and Technology, Guna, India; Pachauri, R., Jaypee University of Engineering and Technology, Guna, India; Singh, A.K., Thapar Institute of Engineering and Technology University, Punjab, India	International Journal of Information Security and Privacy	2019	19301650
1338	Crosstalk estimation of 21.12Tb/s Nyquist superchannels with hybrid modulation using trench-assisted multicore fibre	Goyal S., Kaler R.S., Singh H.	Goyal, S., Optical Fibre Communication Research Laboratory (OFCR), ECE Department, Thapar University, Patiala, Punjab 147004, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Singh, H., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	IET Optoelectronics	2019	17518768
1339	Graphene/chitosan-functionalized iron oxide nanoparticles for biomedical applications	Bandi S., Hastak V., Pavithra C.L.P., Kashyap S., Singh D.K., Luqman S., Peshwe D.R., Srivastav A.K.	Bandi, S., Department of Metallurgical and Materials Engineering, VNIT Nagpur, Maharashtra, 440010, India; Hastak, V., Department of Metallurgical and Materials Engineering, VNIT Nagpur, Maharashtra, 440010, India; Pavithra, C.L.P., Department of Materials Science and Metallurgical Engineering, IIT Hyderabad, Telangana, 502285, India; Kashyap, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, D.K., Department of Molecular Bioprospection, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, Uttar Pradesh, 226002, India, Department of Human Molecular Genetics and Biochemistry, Sackler School of Medicine, Tel Aviv University, Tel Aviv, 699780, Israel; Luqman, S., Department of Molecular Bioprospection, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, Uttar Pradesh, 226002, India; Peshwe, D.R., Department of Metallurgical and Materials Engineering, VNIT Nagpur, Maharashtra, 440010, India; Srivastav, A.K., Department of Metallurgical and Materials Engineering, VNIT Nagpur, Maharashtra, 440010, India	Journal of Materials Research	2019	8842914
1340	Classification of drug molecules for oxidative stress signalling pathway	Verma N., Singh H., Khanna D., Rana P.S., Bhadada S.K.	Verma, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Khanna, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhadada, S.K., Department of Endocrinology, Postgraduate Institute of Medical Education and Research, Chandigarh, 160012, India	IET Systems Biology	2019	17518849

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1341	Introduction and realization of four fractional-order sliding mode controllers for nonlinear open-loop unstable system: a magnetic levitation study case	Pandey S., Dourla V., Dwivedi P., Junghare A.	Pandey, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Dourla, V., Electrical Engineering Department, Visvesvaraya National Institute of Technology, Nagpur, 440010, India; Dwivedi, P., Electrical Engineering Department, National Institute of TechnologyUttarakhand, India; Junghare, A., Electrical Engineering Department, Visvesvaraya National Institute of Technology, Nagpur, 440010, India	Nonlinear Dynamics	2019	0924090X
1342	Effect of different stabilizers on dispersion of gold nanoparticles in bismuth borosilicate glass and their intensity dependent nonlinear behaviour	Singla S., Achanta V.G., Pandey O.P., Sharma G.	Singla, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Department of Physics, Kanya Maha Vidhyalaya, Jalandhar, Punjab 144004, India; Achanta, V.G., DCMP&MS, Tata Institute of Fundamental Research, Mumbai, 400005, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, G., Department of Physics, Kanya Maha Vidhyalaya, Jalandhar, Punjab 144004, India	Optical Materials	2019	9253467
1343	Computational design and evaluation of β -sheet breaker peptides for destabilizing Alzheimer's amyloid- β 42 protofibrils	Shuaib S., Narang S.S., Goyal D., Goyal B.	Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Narang, S.S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Cellular Biochemistry	2019	7302312
1344	Evaluation and optimization of the process parameters for the photo-electrochemical treatment of urea using mixed metal oxide anodes	Singla J., Sangal V.K., Verma A.	Singla, J., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Process Safety and Environmental Protection	2019	9575820
1345	Multimaterial printing and characterization for mechanical and surface properties of functionally graded prototype	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2019	9544062
1346	Balanced Performance Enhancements of a-InGaZnO Thin Film Transistors by Using All-Amorphous Dielectric Multilayers Sandwiching High-k CaCu3Ti4O12	Jung Y.S., Han C.S., Mohanty B.C., Choi H.J., Lee J.H., Kim H.J., Cho Y.S.	Jung, Y.S., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Han, C.S., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Mohanty, B.C., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Choi, H.J., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea; Lee, J.H., Department of Electrical and Electronic Engineering, Yonsei University, Seoul, 03722, South Korea; Kim, H.J., Department of Electrical and Electronic Engineering, Yonsei University, Seoul, 03722, South Korea; Cho, Y.S., Department of Materials Science and Engineering, Yonsei University, Seoul, 03722, South Korea	Advanced Electronic Materials	2019	2199160X
1347	RAD-El: A routing attack detection scheme for edge-based Internet of Things environment	Wazid M., Reshma Dsouza P., Das A.K., Bhat K V., Kumar N., Rodrigues J.J.P.C.	Wazid, M., Department of Computer Science and Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India; Reshma Dsouza, P., Department of Computer Science and Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, India; Bhat K, V., Department of Computer Science and Engineering and Centre for Cryptography, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Brazil; Instituto de Telecomunicações, Portugal; Federal University of Piaui (UFPI), Teresina-PI, Brazil	International Journal of Communication Systems	2019	10745351
1348	Novel neutrality operation-based Pythagorean fuzzy geometric aggregation operators for multiple attribute group decision analysis	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	International Journal of Intelligent Systems	2019	8848173
1349	A comprehensive model for the drying of glassy polymer coatings: The low solvent concentration area of the system poly(styrene)/P-xylene	Sharma J., Kumar Arya R., Verros G.D.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Kumar Arya, R., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Jalandhar, Punjab 144011, India; Verros, G.D., Department of Chemistry, Aristotle University of Thessaloniki, P.O. Box 454 Plagiari Thes., Epanomi, 57500, Greece	Progress in Organic Coatings	2019	3009440
1350	Exponential, Logarithmic and Compensative Generalized Aggregation Operators Under Complex Intuitionistic Fuzzy Environment	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Group Decision and Negotiation	2019	9262644

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1351	Across barrier fission analysis of At* isotopes formed in 3,4,6,8He+209Bi reactions	Kaur A., Kaur G., Patra S.K., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2019	3759474
1352	Riesz fractional order derivative in Fractional Fourier Transform domain: An insight	Kaur K., Jindal N., Singh K.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Digital Signal Processing: A Review Journal	2019	10512004
1353	Fission mass distribution of various superheavy nuclei and related dynamical analysis	Kaur G., Sharma M.K.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2019	3759474
1354	Analysis of CNT reinforced polymer nanocomposite plate in the presence of discontinuities using XFEM	Negi A., Bhardwaj G., Saini J.S., Khanna K., Godara R.K.	Negi, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khanna, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Theoretical and Applied Fracture Mechanics	2019	1678442
1355	Multiple types of exact solutions and conservation laws of new coupled (2 + 1) -dimensional Zakharov-Kuznetsov system with time-dependent coefficients	Kaur B., Gupta R.K.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Gupta, R.K., Department of Mathematics and Statistics, Central University of Punjab, Mansa Road, Bathinda, 151 001, India, Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, 123 031, India	Pramana - Journal of Physics	2019	3044289
1356	Effect of cooling environment and welding speed on fatigue properties of friction stir welded Al-Mg-Cr alloy	Singh R.K.R., Prasad R., Pandey S., Sharma S.K.	Singh, R.K.R., Thapar Institute of Engineering & Technology, Patiala, Punjab 147001, India, Indian Institute of Technology Delhi, New Delhi, 110016, India; Prasad, R., Indian Institute of Technology Delhi, New Delhi, 110016, India; Pandey, S., Indian Institute of Technology Delhi, New Delhi, 110016, India; Sharma, S.K., Thapar Institute of Engineering & Technology, Patiala, Punjab 147001, India	International Journal of Fatigue	2019	1421123
1357	Impact of La2O3/Y2O3 ratio on crystallization kinetics of CaO based alumino-borosilicate glasses and compatibility with Crofer and 8YSZ for SOFCs	Kaur M., Kaur G., Kumar V.	Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, 140406, India, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147001, India; Kumar, V., Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India	Journal of Non-Crystalline Solids	2019	223093
1358	Some results on information measures for complex intuitionistic fuzzy sets	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, India; Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, India	International Journal of Intelligent Systems	2019	8848173
1359	Fission analysis of Z = 114 superheavy isotopes formed via heavy-ion induced reactions	Kaur G., Sharma M.K.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Radioanalytical and Nuclear Chemistry	2019	2365731
1360	Performance Enhancement of Passive Optical Communication Link with Co-simulation Approach	Kaur A., Sharma S.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2019	9296212
1361	Correlational analysis of heart rate variability band power and respiratory frequency to identify an optimal frequency band	Narang M., Singh M.	Narang, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India	Transactions of the Institute of Measurement and Control	2019	1423312

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1362	Super-Resolution Ultrasound Imaging of Skeletal Muscle Microvascular Dysfunction in an Animal Model of Type 2 Diabetes	Ghosh D., Peng J., Brown K., Sirsi S., Mineo C., Shaul P.W., Hoyt K.	Ghosh, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Bioengineering, University of Texas at Dallas, Richardson, TX, United States; Peng, J., Center for Pulmonary and Vascular Biology, Department of Pediatrics, University of Texas Southwestern Medical Center, Dallas, TX, United States; Brown, K., Department of Bioengineering, University of Texas at Dallas, Richardson, TX, United States; Sirsi, S., Department of Bioengineering, University of Texas at Dallas, Richardson, TX, United States, Center for Pulmonary and Vascular Biology, Department of Pediatrics, University of Texas Southwestern Medical Center, Dallas, TX, United States; Mineo, C., Center for Pulmonary and Vascular Biology, Department of Pediatrics, University of Texas Southwestern Medical Center, Dallas, TX, United States; Shaul, P.W., Center for Pulmonary and Vascular Biology, Department of Pediatrics, University of Texas Southwestern Medical Center, Dallas, TX, United States; Hoyt, K., Department of Bioengineering, University of Texas at Dallas, Richardson, TX, United States, Department of Radiology, University of Texas Southwestern Medical Center, Dallas, TX, United States	Journal of Ultrasound in Medicine	2019	2784297
1363	Z-scan study of nonlinear absorption in gold doped borosilicate glass: Effect of Dy3+	Singla S., Pandey O.P., Sharma G.	Singla, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India, Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Sharma, G., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India	Journal of Non-Crystalline Solids	2019	223093
1364	Towards green communication in wireless sensor network: GA enabled distributed zone approach	Kumar S., Kumar V., Kaiwartya O., Dohare U., Kumar N., Lloret J.	Kumar, S., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kumar, V., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kaiwartya, O., School of Science & Technology, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Dohare, U., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering, Patiala, Punjab, India; Lloret, J., Integrated Management Coastal Research Institute, Universitat Politècnica de Valencia, Camino de Vera 46022, Valencia, Spain	Ad Hoc Networks	2019	15708705
1365	Analysis of cracked functionally graded material plates using XIGA based on generalized higher-order shear deformation theory	Singh S.K., Singh I.V., Mishra B.K., Bhardwaj G.	Singh, S.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology RoorkeeUttarakhand 247667, India; Singh, I.V., Department of Mechanical and Industrial Engineering, Indian Institute of Technology RoorkeeUttarakhand 247667, India; Mishra, B.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology RoorkeeUttarakhand 247667, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar University PatialaPunjab 147004, India	Composite Structures	2019	2638223
1366	Spectroscopic, thermal and structural investigations of Dy3+ activated zinc borotellurite glasses and nano-glass-ceramics for white light generation	Kaur S., Pandey O.P., Jayasankar C.K., Chopra N.	Kaur, S., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India, School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jayasankar, C.K., Department of Physics, Sri Venkateswara University, Tirupati, 517 502, India; Chopra, N., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India	Journal of Non-Crystalline Solids	2019	223093
1367	Non-isothermal kinetics of pseudo-components of waste biomass	Sharma P., Pandey O.P., Diwan P.K.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India, Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Fuel	2019	162361
1368	Nature Inspired Optimization Algorithms Based Adaptation of Transmission Parameters in CR Based IoTs	Kaur A., Sharma S., Mishra A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2019	9296212
1369	A Novel Jaya-BAT Algorithm Based Power Consumption Minimization in Cognitive Radio Network	Kaur A., Sharma S., Mishra A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2019	9296212
1370	Design and performance analysis of a conformal CPW fed wideband antenna with Mu-Negative metamaterial for wearable applications	Negi D., Khanna R., Kaur J.	Negi, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Microwave and Wireless Technologies	2019	17590787
1371	An experimental study on head loss characteristics of pipe bends for flow of coal-water slurry at high solid concentration	Singh J.P., Kumar S., Mohapatra S.K.	Singh, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2019	9544089
1372	An improved median filtering anti-forensics with better image quality and forensic undetectability	Singh K., Kansal A., Singh G.	Singh, K., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Kansal, A., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Singh, G., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India	Multidimensional Systems and Signal Processing	2019	9236082

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1373	Accelerated weathering of bolted joints prepared from woven glass fiber-reinforced nanocomposites	Chani K.S., Saini J.S., Bhunia H.	Chani, K.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2019	14644207
1374	Fault detection, isolation and reconfiguration of a bipedal-legged robot	Singh R., Bera T.K.	Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Simulation	2019	375497
1375	Machine learning based optimal renewable energy allocation in sustained wireless sensor networks	Sharma A., Kakkar A.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India, ECE Department, Chandigarh University, Mohali, Punjab, India; Kakkar, A., Thapar Institute of Engineering and Technology, Patiala, India	Wireless Networks	2019	10220038
1376	Free space and user proximity analysis of octaband monopole MIMO/diversity antenna for modern handset applications	Singh H.S., Upadhyay R., Shubair R.M.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Shubair, R.M., Research Laboratory of Electronics, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States	International Journal of RF and Microwave Computer-Aided Engineering	2019	10964290
1377	Comment on "Least-squares approach to regression modeling in full interval-valued fuzzy environment"	Al-Qudaimi A., Kumar A.	Al-Qudaimi, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Soft Computing	2019	14327643
1378	Multimedia analysis for disguised voice and classification efficiency	Singh M.K., Singh A.K., Singh N.	Singh, M.K., Department of ECE, JUET, Guna, MP, India; Singh, A.K., Department of ECE, Thapar University, Patiala, Punjab, India; Singh, N., Department of ECE, JUET, Guna, MP, India	Multimedia Tools and Applications	2019	13807501
1379	A novel hybrid metaheuristic algorithm for model order reduction in the delta domain: a unified approach	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training and Research, Kolkata, West Bengal 700106, India	Neural Computing and Applications	2019	9410643
1380	Evaluation of Gain Spectrum of Silica-Based Single/Dual-Pumped Thulium-Doped Fiber Amplifier (TDFA) by Optimizing Its Physical and Pumping Parameters in the Scenario of Dense Wavelength Division Multiplexed Systems (DWDM)	Kaur P., Singh K., Devra S., Kaur G., Singh M.L.	Kaur, P., Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Singh, K., Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Devra, S., Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, 147001, India; Singh, M.L., Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, 143005, India	Journal of Optical Communications	2019	1734911
1381	Genetic Investigation of Polymorphic OGG1 and MUTYH Genes Towards Increased Susceptibility in Lung Adenocarcinoma and its Impact on Overall Survival of Lung Cancer Patients Treated with Platinum Based Chemotherapy	Singh A., Singh N., Behera D., Sharma S.	Singh, A., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147002, India	Pathology and Oncology Research	2019	12194956
1382	Stackelberg Game for Energy-Aware Resource Allocation to Sustain Data Centers Using RES	Aujla G.S., Singh M., Kumar N., Zomaya A.Y.	Aujla, G.S., Computer Science Engineering Department, Thapar University, Patiala, Punjab 147004, India; Singh, M., Electrical Instrumentation Engineering Department, Thapar University, Patiala, Punjab 147004, India; Kumar, N., Computer Science Engineering Department, Thapar University, Patiala, Punjab 147004, India; Zomaya, A.Y., School of Information Technologies, J12, University of SydneyNSW, Australia	IEEE Transactions on Cloud Computing	2019	21687161
1383	Furfuryl alcohol-derived carbon monoliths for CO2 capture: Adsorption isotherm and kinetic study	Singh J., Basu S., Bhunia H.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	IOP Conference Series: Materials Science and Engineering	2019	17578981
1384	An improved anti-forensic technique for JPEG compression	Kumar A., Kansal A., Singh K.	Kumar, A., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Kansal, A., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1385	Convolutional neural network based deep feature learning for finger-vein identification	Singh M., Singla S.K.	Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala PB, India; Singla, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala PB, India	ACM International Conference Proceeding Series	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1386	Tensile behaviour and characterization of epoxy-clay-poly (ethylene terephthalate) nanocomposites	Raturi M., Singh B.J., Shelly D., Singh K., Nanda T., Mehta R.	Raturi, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, B.J., Mechanical Engineering Department, Maharishi Markandeshwar (Deemed to Be University), Mullana, India; Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Materials Research Express	2019	20531591
1387	Green synthesis of SnO ₂ NPs for solar light induced photocatalytic applications	Singh J., Kaur H., Kukkar D., Mukamia V.K., Kumar S., Rawat M.	Singh, J., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Kaur, H., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Kukkar, D., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Mukamia, V.K., Department of Electrical and Instrumentation, Thapar University, Patiala, Punjab, 147003, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India	Materials Research Express	2019	20531591
1388	Tactile internet and its applications in 5G era: A comprehensive review	Gupta R., Tanwar S., Tyagi S., Kumar N.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	International Journal of Communication Systems	2019	10745351
1389	Heart sound classification using machine learning and phonocardiogram	Arora V., Leekha R., Singh R., Chana I.	Arora, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Leekha, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Modern Physics Letters B	2019	2179849
1390	Salinity gradient solar pond construction and maintenance	Mahizan S.M.F.S., Singh B., Nyandang A.N., Bahrin N.A., Remeli M.F., Oberoi A.	Mahizan, S.M.F.S., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Singh, B., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Nyandang, A.N., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Bahrin, N.A., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Remeli, M.F., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, 40450, Malaysia; Oberoi, A., Thapar Institute of Engineering and Technology, Patiala, India	AIP Conference Proceedings	2019	0094243X
1391	Enhanced performance of double gate junctionless field effect transistor by employing rectangular core-shell architecture	Narula V., Agarwal M.	Narula, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Semiconductor Science and Technology	2019	2681242
1392	Multifunctional Mono-Triazole Derivatives Inhibit A β 42 Aggregation and Cu ²⁺ -Mediated A β 42 Aggregation and Protect against A β 42-Induced Cytotoxicity	Kaur A., Narang S.S., Kaur A., Mann S., Priyadarshi N., Goyal B., Singhal N.K., Goyal D.	Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Narang, S.S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Mann, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Priyadarshi, N., National Agri-Food Biotechnology Institute, S.A.S. Nagar, Punjab, 140306, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singhal, N.K., National Agri-Food Biotechnology Institute, S.A.S. Nagar, Punjab, 140306, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India	Chemical Research in Toxicology	2019	0893228X
1393	A novel unsupervised corpus-based stemming technique using lexicon and corpus statistics	Singh J., Gupta V.	Singh, J., Thapar Institute of Engineering and Technology, India; Gupta, V., University Institute of Engineering and Technology, Panjab University, Chandigarh, India	Knowledge-Based Systems	2019	9507051
1394	Tree-Based Threshold-Sensitive Energy-Efficient Routing Approach For Wireless Sensor Networks	Mittal N., Singh U., Salgotra R.	Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India	Wireless Personal Communications	2019	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1395	Impact of background water quality on disinfection performance and silver release of immobilized silver nanoparticles: Modeling disinfection kinetics, bactericidal mechanism and aggregation behavior	Agnihotri S., Mukherji S., Mukherji S.	Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India, TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Mukherji, S., Department of Biosciences and Bioengineering, Indian Institute of Technology-Bombay, Powai, Mumbai 400076, India, Centre for Research in Nanotechnology and Science, Indian Institute of Technology-Bombay, Powai, Mumbai 400076, India, Centre of Excellence in Nanoelectronics, Indian Institute of Technology-Bombay, Powai, Mumbai 400076, India; Mukherji, S., Centre for Research in Nanotechnology and Science, Indian Institute of Technology-Bombay, Powai, Mumbai 400076, India, Environmental Science and Engineering Department, Indian Institute of Technology-Bombay, Powai, Mumbai 400076, India	Chemical Engineering Journal	2019	13858947
1396	A Decision Making Methodology to Assess Power Quality Monitoring Index of an AC Microgrid Using Fuzzy Inference Systems	Kaushal J., Basak P.	Kaushal, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Electric Power Components and Systems	2019	15325008
1397	On the Probability That an Automorphism Fixes a Group Element	Goyal A., Kalra H., Gumber D.	Goyal, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kalra, H., Department of Mathematics, Guru Jambheshwar University of Science and Technology, Hisar, India; Gumber, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	American Mathematical Monthly	2019	29890
1398	Analysis on suitability of HVOF sprayed Ni-20Al, Ni-20Cr and Al-20Ti coatings in coal-ash slurry conditions using artificial neural network model	Singh J.	Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Industrial Lubrication and Tribology	2019	368792
1399	Roles of bulk viscosity on transonic shock-wave/boundary layer interaction	Bhola S., Sengupta T.K.	Bhola, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sengupta, T.K., High Performance Computing Laboratory, Department of Aerospace Engineering, IIT Kanpur, Kanpur, 208016, India	Physics of Fluids	2019	10706631
1400	Effects of multi-phase optimal velocity function on a lattice model accounting for driver's behavior	Madaan N., Sharma S.	Madaan, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	International Journal of Modern Physics B	2019	2179792
1401	An improved integrated Grid and MapReduce-Hadoop architecture for spatial data: Hilbert TGS R-Tree-based IGSIM	Singh H., Bawa S.	Singh, H., Computer Science & Engineering and Information Technology Department, Jaypee University of Information Technology, Waknaghat, India; Bawa, S., Computer Science & Engineering Department, Thapar University, Patiala, India	Concurrency and Computation: Practice and Experience	2019	15320626
1402	Quantifying viscoelastic, piezoelectric and couple stress effects on Love-type wave propagation	Goyal R., Kumar S.	Goyal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Smart Materials and Structures	2019	9641726
1403	Gene Expression Data Clustering Using Variance-based Harmony Search Algorithm	Kumar V., Kumar D.	Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, D., Computer Science and Engineering Department, Guru Jambheshwar University of Science & Technology, Hisar, India	IETE Journal of Research	2019	3772063
1404	Corresponding state behaviour of capillary condensation of confined alkanes	Singh S.K., Mehta A.	Singh, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Molecular Simulation	2019	8927022
1405	A sentiment analysis system for social media using machine learning techniques: Social enablement	Rani S., Kumar P.	Rani, S., TIET, CSIED, India; Kumar, P., TIET, India	Digital Scholarship in the Humanities	2019	20557671
1406	Improved Space Vector PWM Techniques of the Three level ZSI	Sonar S., Singh S.	Sonar, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Punjab, Patiala, India; Singh, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Punjab, Patiala, India	2019 International Conference on Computing, Power and Communication Technologies, GUCON 2019	2019	
1407	CDFM-based secure efficient architecture for data management in cloud computing	Singh M., Kumar R., Chana I.	Singh, M., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Kumar, R., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Chana, I., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India	2019 2nd International Conference on Intelligent Communication and Computational Techniques, ICCT 2019	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1408	Selection of sub-optimal feature set of network data to implement Machine Learning models to develop an efficient NIDS	Sadioura J.S., Singh S., Das A.	Sadioura, J.S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Singh, S., Mechanical Measurement Instrumentation, CSIR-CSIO, Chandigarh, India; Das, A., Mechanical Measurement Instrumentation, CSIR-CSIO, Chandigarh, India	2019 International Conference on Data Science and Engineering, ICDESE 2019	2019	
1409	Impact of pulse shaping design on OOB emission and error probability of GFDM	Kalsotra S., Kumar A., Joshi H.D., Singh A.K., Dev K., Magarini M.	Kalsotra, S., Thapar Institute of Engineering and Technology, Department of Communication Engineering, Patiala, India; Kumar, A., Technische Universität Dresden, Vodafone Department Mobile Communications Systems, Germany; Joshi, H.D., Thapar Institute of Engineering and Technology, Department of Communication Engineering, Patiala, India; Singh, A.K., Thapar Institute of Engineering and Technology, Department of Communication Engineering, Patiala, India; Dev, K., Information and Bioengineering, Department of Electronic, Politecnico di Milano, Milano, Italy; Magarini, M., Information and Bioengineering, Department of Electronic, Politecnico di Milano, Milano, Italy	IEEE 5G World Forum, 5GWF 2019 - Conference Proceedings	2019	
1410	A spiral shaped loop fed high read range compact tag antenna for UHF RFID applications	Bansal A., Sharma S., Khanna R.	Bansal, A., Thapar Institute of Engineering Technology Name of Organization, Department of Electronics Communication Engineering Dept., Patiala, India; Sharma, S., Thapar Institute of Engineering Technology Name of Organization, Department of Electronics Communication Engineering Dept., Patiala, India; Khanna, R., Thapar Institute of Engineering Technology Name of Organization, Department of Electronics Communication Engineering Dept., Patiala, India	2019 IEEE International Conference on RFID Technology and Applications, RFID-TA 2019	2019	
1411	A wideband PIFA loaded with metamaterial superstate for 4G LTE & WLAN devices	Saini H.S., Kumar N., Singh M.	Saini, H.S., ECED, Indo Global College of Engineering, New Chandigarh, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Singh, M., Indo Global College of Engineering, New Chandigarh, Punjab, India	International Journal of Scientific and Technology Research	2019	22778616
1412	Utilization of Banana Stem Juice as a Feedstock Material for Bioethanol Production	Gupta G., Baranwal M., Saxena S., Reddy M.S.	Gupta, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Clean - Soil, Air, Water	2019	18630650
1413	Performance evaluation of bituminous concrete mixes modified with SBS polymer and warm mix additive	Singh H., Chopra T., Kamotra S., Jain S., Kaur A.	Singh, H., Ministry of Road Transport & Highway-IIT Roorkee, Delhi, India; Chopra, T., Civil Engineering Department, Thapar University, Patiala, India; Kamotra, S., Himalyan Institute of Technology H.P, India; Jain, S., Amity University Haryana, India; Kaur, A., Military Engineering Service, Leh, India	International Journal of Recent Technology and Engineering	2019	22773878
1414	Forecasting volatility of crude oil prices using box-jenkins's autoregressive moving average: Evidence from Indian chemical industry	Sharma R.K.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and technology (Deemed University), Patiala, India	International Journal of Recent Technology and Engineering	2019	22773878
1415	Enhanced reversible data hiding scheme for homomorphic encrypted absolute moment block truncation coding-compressed images	Bhardwaj R.	Bhardwaj, R., Thapar Institute of Engineering and Technology, Computer Science Engineering Department, Patiala, Punjab, India	Journal of Electronic Imaging	2019	10179909
1416	Professional communication skills in english for non-native english speaking engineers: Challenges and a proposed teaching framework	Singh D., Kaur G.	Singh, D., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology University, Patiala, Punjab, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology University, Patiala, Punjab, India	International Journal of Recent Technology and Engineering	2019	22773878
1417	Signed distance ranking based approach for solving bounded interval-valued fuzzy numbers linear programming problems	Ebrahimnejad A., Verdegay J.L., Garg H.	Ebrahimnejad, A., Department of Mathematics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Verdegay, J.L., Department of Computer Science and Artificial Intelligence, University of Granada, Granada, Spain; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, India	International Journal of Intelligent Systems	2019	8848173
1418	Parametric prediction of optical tracker using machine learning techniques for an efficient head tracking	Kataria A., Ghosh S., Karar V.	Kataria, A., Thapar Institute of Engineering and Technology, Patiala, India; Ghosh, S., Thapar Institute of Engineering and Chief Scientist, CSIR-CSIO, Chandigarh Technology, Patiala, India; Karar, V., CSIR-CSIO, Chandigarh, India	International Journal of Recent Technology and Engineering	2019	22773878
1419	Age estimation and its progression from face images	Sharma N., Sharma R., Jindal N.	Sharma, N., UCOe, Punjabi University, Patiala, India; Sharma, R., UCOe, Punjabi University, Patiala, India; Jindal, N., T.I.E.T, Patiala, India	International Journal of Recent Technology and Engineering	2019	22773878
1420	Analysis Of optical unicast design using 1.65Tb/S overlay system with 40Gb/S multicast signal	Goyal S., Singh A., Kaler R.S.	Goyal, S., Thapar Institute of Engineering and Technology, Deemed to be University Punjab, India; Singh, A., Thapar Institute of Engineering and Technology, Deemed to be University Punjab, India; Kaler, R.S., Thapar Institute of Engineering and Technology, Deemed to be University Punjab, India	International Journal of Scientific and Technology Research	2019	22778616

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1421	Multi-objective linear fractional inventory model with possibility and necessity constraints under generalised intuitionistic fuzzy set environment	Garai T., Garg H.	Garai, T., Department of Mathematics, Silda Chandra Sekhar College, Jhargram, West Bengal 721515, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	CAAI Transactions on Intelligence Technology	2019	24686557
1422	Workspace analysis and trajectory tracking of a planar hybrid manipulator with ball screw feed drive	Arora R., Agarwal D., Bera T.K.	Arora, R., Mechanical Engineering Department, Chandigarh University, Gharuan (Mohali), 140413, India; Agarwal, D., Department of Mechanical Engineering, IIT Patna, Patna, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	16785878
1423	New Biphenyl-Based Bispyrazolines: Synthesis, Antimicrobial, and Docking Studies	Yusuf M., Nisa S., Paul K.	Yusuf, M., Department of Chemistry, Punjabi University, Patiala, Punjab 147002, India; Nisa, S., Department of Chemistry, Punjabi University, Patiala, Punjab 147002, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147003, India	Journal of Heterocyclic Chemistry	2019	0022152X
1424	QRS complex detection using fractional Stockwell transform and fractional Stockwell Shannon energy	Bajaj A., Kumar S.	Bajaj, A., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Biomedical Signal Processing and Control	2019	17468094
1425	Bond Graph Modelling and Simulation of Planar Quadruple Robot with Different Gaits	Soharu G., Singh R., Bera T.K.	Soharu, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University) (Earlier-Thapar University), Patiala, 147004, India; Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University) (Earlier-Thapar University), Patiala, 147004, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University) (Earlier-Thapar University), Patiala, 147004, India	Arabian Journal for Science and Engineering	2019	2193567X
1426	Influence of laboratory and waste grade cellulose acetate on photo and electrocatalytic properties of NbCxOy/C and NbC/C nanocomposites	Gupta A., Brar L.K., Pandey O.P.	Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Solar Energy	2019	0038092X
1427	Retrofitting of Shear-Deficient RC Beams Using UHP-FRC	Garg V., Bansal P.P., Sharma R.	Garg, V., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bansal, P.P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Iranian Journal of Science and Technology - Transactions of Civil Engineering	2019	22286160
1428	Experimental and Numerical Investigations of Bolted CFST Beams-CFST Columns Connections	Beena K., Naveen K., Shruti S.	Beena, K., Department of Civil Engineering, Thapar University, Patiala, 147-001, India; Naveen, K., Department of Civil Engineering, Thapar University, Patiala, 147-001, India; Shruti, S., Department of Civil Engineering, Thapar University, Patiala, 147-001, India	Iranian Journal of Science and Technology - Transactions of Civil Engineering	2019	22286160
1429	TOIL and damped-SOGI control of quasi-Z-source inverter based grid-connected renewable-system	Singh N., Jain S.K.	Singh, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Jain, S.K., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Control Engineering Practice	2019	9670661
1430	A Network-Coded Caching-Based Multicasting Scheme for Information-Centric Networking (ICN)	Lal N., Kumar S., Chaurasiya V.K.	Lal, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Kumar, S., Department of Information Technology, IIIT Allahabad, Allahabad, 211015, India; Chaurasiya, V.K., Department of Information Technology, IIIT Allahabad, Allahabad, 211015, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2019	22286179
1431	Investigations of polylactic acid reinforced composite feedstock filaments for multimaterial three-dimensional printing applications	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2019	9544062
1432	New fluoroquinolone compounds with endo-nortropine derivatives at C-7 position show antibacterial activity against fluoroquinolone-resistant strains of Staphylococcus aureus	Salunke R.A., Shukla M., Kaul G., Bansal B.R., Chopra S., Chhibber M.	Salunke, R.A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India, Saurav Chemicals Limited, Derabassi- Mohali, India; Shukla, M., CDRI - Division of Microbiology, CSIR-Central Drug Research Institute, Lucknow, India; Kaul, G., CDRI - Division of Microbiology, CSIR-Central Drug Research Institute, Lucknow, India; Bansal, B.R., Saurav Chemicals Limited, Derabassi- Mohali, India; Chopra, S., CDRI - Division of Microbiology, CSIR-Central Drug Research Institute, Lucknow, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Chemical Biology and Drug Design	2019	17470277

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1433	C-HMOSHSSA: Gene selection for cancer classification using multi-objective meta-heuristic and machine learning methods	Sharma A., Rani R.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Computer Methods and Programs in Biomedicine	2019	1692607
1434	Estimation of soil properties from the EU spectral library using long short-term memory networks	Singh S., Kasana S.S.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Geoderma Regional	2019	23520094
1435	CO2 capture by modified porous carbon adsorbents: Effect of various activating agents	Singh J., Basu S., Bhunia H.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of the Taiwan Institute of Chemical Engineers	2019	18761070
1436	Detoxification of toxic heavy metals by serine protease inhibitor isolated from polluted soil	Mukherjee A., Yadav R., Marmesse R., Fraissinet-Tachet L., Reddy M.S.	Mukherjee, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Yadav, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Marmesse, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Fraissinet-Tachet, L., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	International Biodeterioration and Biodegradation	2019	9648305
1437	Performance of 3T-ANC based orthogonal frequency-division-multiplexed optical wireless link with pointing error	Kumar P., Thakor S.	Kumar, P., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Thakor, S., The SCEE, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India	Journal of Optics (India)	2019	9728821
1438	Commentary on "A geometric approach for ranking interval-valued intuitionistic fuzzy numbers with an application to group decision-making"	Kaur A., Kumar A.	Kaur, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Computers and Industrial Engineering	2019	3608352
1439	Issues and challenges in DNS based botnet detection: A survey	Singh M., Singh M., Kaur S.	Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India, Department of Information Technology and Engineering, Baba Ghulam Shah Badshah University, Rajouri, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kaur, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Computers and Security	2019	1674048
1440	Gravitational search assisted algorithm for TCSC placement for congestion control in deregulated power system	Sharma A., Jain S.K.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Electric Power Systems Research	2019	3787796
1441	TOPSIS based on nonlinear-programming methodology for solving decision-making problems under cubic intuitionistic fuzzy set environment	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Computational and Applied Mathematics	2019	22383603
1442	Depth profile study of poly(styrene)-poly(methyl methacrylate)-tetrahydrofuran coatings	Sharma J., Ahuja S., Arya R.K.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B. R Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India	Progress in Organic Coatings	2019	3009440
1443	A unified model for the drying of glassy polymer coatings	Sharma J., Arya R.K., Verros G.D.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Punjab Jalandhar, 144011, India; Verros, G.D., Department of Chemistry, Aristotle University of Thessaloniki, P.O. Box 454, Plagiari Thes., Epanomi, 57500, Greece	Progress in Organic Coatings	2019	3009440

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1444	A Comprehensive Review on Smart Decision Support Systems for Health Care	Moreira M.W.L., Rodrigues J.J.P.C., Korotaev V., Al-Muhtadi J., Kumar N.	Moreira, M.W.L., Instituto Federal de Educação, Ciência e Tecnologia do Ceará, Aracati, CE, Brazil, Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, 6200-161, Portugal; Rodrigues, J.J.P.C., National Institute of Telecommunications, Santa Rita do Sapucaí, MG, Brazil, ITMO University, Saint Petersburg, Russian Federation, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia, Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, 6200-161, Portugal; Korotaev, V., ITMO University, Saint Petersburg, Russian Federation; Al-Muhtadi, J., College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India	IEEE Systems Journal	2019	19328184
1445	Review on titanium and titanium based alloys as biomaterials for orthopaedic applications	Kaur M., Singh K.	Kaur, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Science and Engineering C	2019	9284931
1446	Effect of molecular weight on residual solvent and other parameters in polymer-polymer-solvent coatings: Poly(Styrene)-poly(methyl methacrylate)-ethylbenzene system	Sharma J., Ahuja S., Arya R.K.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B. R Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India	Progress in Organic Coatings	2019	3009440
1447	A modified split ring resonator based printed compact monopole UWB antenna with spiked elliptical radiator having five band rejection features	Kaur J., Maiti P.	Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Maiti, P., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	International Journal of RF and Microwave Computer-Aided Engineering	2019	10964290
1448	Toxicity and degradation of the insecticide monocrotophos	Kaur R., Goyal D.	Kaur, R., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147001, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147001, India	Environmental Chemistry Letters	2019	16103653
1449	TILAA: Tactile Internet-based Ambient Assistant Living in fog environment	Vora J., Kaneriya S., Tanwar S., Tyagi S., Kumar N., Obaidat M.S.	Vora, J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kaneriya, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Obaidat, M.S., ECE Deptt., Nazarbayev University, Astana, Kazakhstan, King Abdullah II School of IT, University of Jordan, and University of Science and Technology Beijing, China	Future Generation Computer Systems	2019	0167739X
1450	High order WENO finite volume approximation for population density neuron model	Kumar S., Singh P.	Kumar, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 1470 04, India; Singh, P., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 1470 04, India	Applied Mathematics and Computation	2019	963003
1451	Intuitionistic Fuzzy Hamacher Aggregation Operators with Entropy Weight and Their Applications to Multi-criteria Decision-Making Problems	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2019	22286179
1452	In Situ Measurement of Dielectric Permittivity and Electrical Conductivity of CoCl ₂ /BaCl ₂ Doped PVDF Composite at Elevated Temperature	Gaur A.M., Rana D.S.	Gaur, A.M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Rana, D.S., Department of Instrumentation, Kurukshetra University, Kurukshetra, India	Journal of Inorganic and Organometallic Polymers and Materials	2019	15741443
1453	Ideal Lattice-Based Anonymous Authentication Protocol for Mobile Devices	Feng Q., He D., Zeadally S., Kumar N., Liang K.	Feng, Q., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, 541004, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, 541004, China; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY, United States; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Liang, K., Department of Computer Science, University of Surrey, Guildford, Surrey, United Kingdom	IEEE Systems Journal	2019	19328184

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1454	A Reduced Graphene Oxide Electrode For Solid-State Hydrogen Storage Within A Proton Battery	Jindal H., Oberoi A.S., Sandhu I.S., Chitkara M.	Jindal, H., Chitkara University Institute of Engineering and Technology, Chitkara University, India; Oberoi, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sandhu, I.S., Chitkara University Institute of Engineering and Technology, Chitkara University, India; Chitkara, M., Chitkara University Institute of Engineering and Technology, Chitkara University, India	International Journal of Mechanical and Production Engineering Research and Development	2019	22496890
1455	HMM-based phonetic engine for continuous speech of a regional language	Kaur R., Sharma R.K., Kumar P.	Kaur, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters B	2019	2179849
1456	Growth and properties of solvothermally derived highly crystalline Cu ₂ ZnSnS ₄ nanoparticles for photocatalytic and electrocatalytic applications	Burhanuz Zaman M., Mir R.A., Poolla R.	Burhanuz Zaman, M., School of Studies in Physics, Jiwaji University, Gwalior, 474011, India; Mir, R.A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Poolla, R., School of Studies in Physics, Jiwaji University, Gwalior, 474011, India	International Journal of Hydrogen Energy	2019	3603199
1457	Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz	Singh C., Bai Y., Narang S.B., Sombra A.S.B., Mishra S.R., Jotania R., Khanna R., Trukhanov S.V., Trukhanov A.V., Ghimire M.	Singh, C., Department of ECE, Lovely Professional University, Phagwara, Punjab, India; Bai, Y., School of Materials Science and Engineering, University of Science and Technology, Beijing, 100083, China; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Sombra, A.S.B., Department of Physics, (LOCEM), Federal University of Ceará (UFC), Pici Campus, Fortaleza, Ceara, Brazil; Mishra, S.R., Department of Physics, University of Memphis, Memphis, TN, United States; Jotania, R., Department of Physics, Electronics and Space Science, University School of Sciences, Gujarat University, Ahmedabad, Gujarat, India; Khanna, R., Department of ECE, Thapar University, Patiala, Punjab, India; Trukhanov, S.V., Scientific-Practical Materials Research Centre NAS of Belarus, 19 P Brovki Street, Minsk, 220072, Belarus, National University of Science and Technology MISiS, Leninsky Prospekt, 4, Moscow, 119049, Russian Federation, South Ural State University, Lenin Prospect, 76, Chelyabinsk, 454080, Russian Federation; Trukhanov, A.V., Scientific-Practical Materials Research Centre NAS of Belarus, 19 P Brovki Street, Minsk, 220072, Belarus, National University of Science and Technology MISiS, Leninsky Prospekt, 4, Moscow, 119049, Russian Federation, South Ural State University, Lenin Prospect, 76, Chelyabinsk, 454080, Russian Federation; Ghimire, M., Department of Physics, University of Memphis, Memphis, TN, United States	Journal of Materials Science: Materials in Electronics	2019	9574522
1458	Impact of copper-titanium carbide tooltip on machined surface integrity during electrical discharge machining of EN31 steel	Walia A.S., Srivastava V., Jain V.	Walia, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Research Express	2019	20531591
1459	Fusion-fission dynamics of Pt 188,190 through fission fragment mass distribution measurements	Kavita, Golda K.S., Ghosh T.K., Jhingan A., Sugathan P., Chatterjee A., Behera B.R., Kumar A., Kumar R., Saneesh N., Kumar M., Yadav A., Yadav C., Kumar N., Banerjee A., Rani A., Duggi S.K., Dubey R., Rani K., Noor S., Acharya J., Singh H.	Kavita, Department of Physics, Kurukshetra University, Kurukshetra, 136119, India; Golda, K.S., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Ghosh, T.K., Variable Energy Cyclotron Centre, 1/AF, Bidhan Nagar, Kolkata, 700064, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Jhingan, A., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Sugathan, P., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Chatterjee, A., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India, Department of Physic, M. S. University of Baroda, Vadodara, Gujarat, 390002, India; Behera, B.R., Department of Physics, Panjab University, Chandigarh, 160014, India; Kumar, A., Department of Physics, Panjab University, Chandigarh, 160014, India; Kumar, R., Department of Physics, Kurukshetra University, Kurukshetra, 136119, India; Saneesh, N., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kumar, M., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Yadav, A., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Yadav, C., Inter-university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kumar, N., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Banerjee, A., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Rani, A., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Duggi, S.K., Department of Nuclear Physics, Andhra University, Visakhapatnam, 530003, India; Dubey, R., IThemba LABS, National Research Foundation, Somerset West, South Africa; Rani, K., Department of Physics, Panjab University, Chandigarh, 160014, India; Noor, S., Department of Physics, Thapar University, Patiala, Punjab, 147004, India; Acharya, J., Department of Physic, M. S. University of Baroda, Vadodara, Gujarat, 390002, India; Singh, H., Department of Physics, Kurukshetra University, Kurukshetra, 136119, India	Physical Review C	2019	24699985
1460	Investigation of Various Parameters of Dual Fuel Engine Using Biomass Waste - Producer Gas as an Induced Fuel	Singh H., Kumar Mohapatra S., Singh Kaler M.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar Mohapatra, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh Kaler, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Physics: Conference Series	2019	17426588

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1461	Improvements in the Rheological Characteristics of the Complex Coal-Water Suspension Using Gasification Derived Waste Water	Singh H., Kumar S., Kumar Mohapatra S.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar Mohapatra, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Physics: Conference Series	2019	17426588
1462	A hybrid fuzzy quantum time series and linear programming model: Special application on TAIEX index dataset	Singh P., Dhiman G., Guo S., Maini R., Kaur H., Kaur A., Keur H., Singh J., Singh N.	Singh, P., SMT. Chandaben Mohanbhai Patel Institute of Computer Applications, CHARUSAT Campus Changa, Anand, Gujarat, 388421, India; Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Guo, S., School of Economics and Management, North China Electric Power University, Beijing, 102206, China; Maini, R., Department of Computer Science, Govt. Bikram College of Commerce, Patiala, Punjab, 147004, India; Kaur, H., Department of Computer Science, Govt. Bikram College of Commerce, Patiala, Punjab, 147004, India; Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Keur, H., Plant and Soil Department, Texas Tech University, Lubbock, TX 79409, United States; Singh, J., Department of Computer Science and Engineering, Desh Bhagat University, Mandi Gobindgarh, Punjab, 147301, India; Singh, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Modern Physics Letters A	2019	2177323
1463	Magnetorheological nano-finishing of tube extrusion punch for improving its functional applications in press machine	Chana A., Singh A.K.	Chana, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Advanced Manufacturing Technology	2019	2683768
1464	Effects of SiC, Al ₂ O ₃ , and ZrO ₂ particles on the LBMed characteristics of Al/SiC, Al/Al ₂ O ₃ , and Al/ZrO ₂ MMCs prepared by stir casting process	Kumar V., Sharma V.	Kumar, V., Mechanical Engineering Department, Thapar University, Patiala, India; Sharma, V., Mechanical Engineering Department, The NorthCap University, Gurugram, India	Particulate Science and Technology	2019	2726351
1465	Bidirectional rotating actuators using shape memory alloy wires	Kim Y., Jang T., Gurung H., Mansour N.A., Ryu B., Shin B.	Kim, Y., Department of Mechanical Engineering, Hanbat National University, Daejeon, South Korea; Jang, T., Department of Mechanical Engineering, Hanbat National University, Daejeon, South Korea; Gurung, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147003, India; Mansour, N.A., Department of Mechanical Engineering, Benha Faculty of Engineering, Benha University, Benha, 13511, Egypt; Ryu, B., Department of Mechanical Engineering, Hanbat National University, Daejeon, South Korea; Shin, B., Department of Mechanical Engineering, Hanbat National University, Daejeon, South Korea	Sensors and Actuators, A: Physical	2019	9244247
1466	Thermally Aware Modeling and Performance Analysis of MLGMR as On-Chip VLSI Interconnect Material	Sharma H., Sandha K.S.	Sharma, H., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Sandha, K.S., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Electronic Materials	2019	3615235
1467	Enhanced microwave absorption and suppressed reflection of polypyrrole-cobalt ferrite-graphene nanocomposite in X-band	Gill N., Sharma A.L., Gupta V., Tomar M., Pandey O.P., Singh D.P.	Gill, N., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, A.L., CSIR - Central Scientific Instrument Organisation (CSIR-CSIO), Chandigarh, 160030, India; Gupta, V., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Tomar, M., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, D.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Alloys and Compounds	2019	9258388
1468	Isolation and enhancement of resveratrol production in Xylaria psidii by exploring the phenomenon of epigenetics: using DNA methyltransferases and histone deacetylase as epigenetic modifiers	Dwibedi V., Kalia S., Saxena S.	Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kalia, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Molecular Biology Reports	2019	3014851
1469	Interfacial exchange coupling driven magnetic and microwave properties of BaFe ₁₂ O ₁₉ /Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanocomposites	Pahwa C., Narang S.B., Sharma P.	Pahwa, C., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Magnetism and Magnetic Materials	2019	3048853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1470	Hybrid coagulation, gamma irradiation and biological treatment of real pharmaceutical wastewater	Changotra R., Rajput H., Paul Guin J., Varshney L., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paul Guin, J., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemical Engineering Journal	2019	13858947
1471	An efficient authentication scheme for high efficiency video coding/H.265	Kaur G., Kasana S.S., Sharma M.K.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1472	Application of tunable-Q wavelet transform based nonlinear features in epileptic seizure detection	Jindal K., Upadhyay R., Singh H.S.	Jindal, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 002, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 002, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 002, India	Analog Integrated Circuits and Signal Processing	2019	9251030
1473	A journey of Indian languages over sentiment analysis: a systematic review	Rani S., Kumar P.	Rani, S., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, P., CSED, Thapar Institute of Engineering and Technology, Patiala, India	Artificial Intelligence Review	2019	2692821
1474	Drying induced phase separation in poly(styrene)-poly(ethylene glycol)-chlorobenzene system	Sharma J., Arya R.K., Ahuja S.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, GT Road Bye Pass, Jalandhar, Punjab 144011, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed University), Bhadson Road, Patiala, Punjab 147004, India	Journal of Porous Materials	2019	13802224
1475	Natural polymer based composite membranes for water purification: a review	Dongre R.S., Sadasivuni K.K., Deshmukh K., Mehta A., Basu S., Meshram J.S., Al-Maadeed M.A.A., Karim A.	Dongre, R.S., P.G.T.D. of Chemistry, R. T. M. Nagpur University, Nagpur, India; Sadasivuni, K.K., Center for Advanced Materials, Qatar University, Doha, Qatar; Deshmukh, K., Department of Physics, B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, Tamil Nadu, India; Mehta, A., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab, India; Basu, S., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab, India; Meshram, J.S., P.G.T.D. of Chemistry, R. T. M. Nagpur University, Nagpur, India; Al-Maadeed, M.A.A., Materials Science & Technology Program (MATS), College of Arts & Sciences, Qatar University, Doha, Qatar; Karim, A., Chemical and Biomolecular Engineering, University of Houston, Houston, TX, United States	Polymer-Plastics Technology and Materials	2019	25740881
1476	Effect of the nucleon-nucleon interaction on the fusion cross-section within the relativistic mean field formalism	Bhuyan M., Kumar R., Carlson B.V.	Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Instituto Tecnológico de Aeronáutica, Sao José dos Campos, Sao Paulo, 12.228-900, Brazil; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Carlson, B.V., Instituto Tecnológico de Aeronáutica, Sao José dos Campos, Sao Paulo, 12.228-900, Brazil	Journal of Physics: Conference Series	2019	17426588
1477	Insights into the inhibitory mechanism of a resveratrol and cloquinol hybrid against Aβ42 aggregation and protofibril destabilization: A molecular dynamics simulation study	Saini R.K., Shuaib S., Goyal D., Goyal B.	Saini, R.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Biomolecular Structure and Dynamics	2019	7391102
1478	Automatic clustering using quantum-based multi-objective emperor penguin optimizer and its applications to image segmentation	Kumar D., Kumar V., Kumari R.	Kumar, D., Electronics and Communication Engineering Department, Delhi Technological University, Delhi, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumari, R., Department of Computer Science and Engineering, GJUSandT, Hisar, Punjab, India	Modern Physics Letters A	2019	2177323
1479	Electro-oxidation of amoxicillin trihydrate in continuous reactor by Ti/RuO ₂ anode	Kaur R., Kushwaha J.P., Singh N.	Kaur, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kushwaha, J.P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, N., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Science of the Total Environment	2019	489697
1480	Corrigendum: On processing of Ni-Cr3C2 based functionally graded clads through microwave heating (Materials Research Express (2018)5(066405) DOI: 10.1088/2053-1591/aac805)	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Research Express	2019	20531591

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1481	Predicting power for home appliances based on climatic conditions	Kaur J., Bala A.	Kaur, J., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bala, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Energy Sector Management	2019	17506220
1482	Experimental Evaluation of High Temperature Corrosion Performance of 75Ni25Cr Coated and Bare 347H SS in Air and Simulated Husk Fired Boiler Environment	Gada H., Mudgal D., Ahmad B.	Gada, H., National Institute of Technology, Jammu and Kashmir Srinagar, 190006, India; Mudgal, D., Thapar Institute of Engineering and Technology, Punjab Patiala, 147004, India; Ahmad, B., National Institute of Technology, Jammu and Kashmir Srinagar, 190006, India	Journal of Physics: Conference Series	2019	17426588
1483	Effect of post weld thermal aging (PWTA) sensitization on micro-hardness and corrosion behavior of AISI 304 weld joints	Kumar M., Babbar A., Sharma A., Shahi A.S.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Babbar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, A., Chitkara School of Applied Engineering, Chitkara University, Patiala, 140401, India; Shahi, A.S., Mechanical Engineering Department, SLIET University, Longowal, 148106, India	Journal of Physics: Conference Series	2019	17426588
1484	Development of high ductile ultra high strength structural steel through stabilization of retained austenite and stacking fault	Poddar D., Ghosh C., Bhattacharya B., Singh V.K.	Poddar, D., R & D, Tata Steel Ltd., Jamshedpur, Jharkhand 831007, India; Ghosh, C., R & D, Tata Steel Ltd., Jamshedpur, Jharkhand 831007, India; Bhattacharya, B., R & D, Tata Steel Ltd., Jamshedpur, Jharkhand 831007, India; Singh, V.K., Ex-Intern at Tata Steel Ltd., R&D, from Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, India	Materials Science and Engineering: A	2019	9215093
1485	Effectiveness of Merger & Acquisitions as a Tool for Growth: A Study from Indian Corporate Sector	Aggarwal P., Garg S.	Aggarwal, P., Institute of Management Technology, Ghaziabad, India; Garg, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	Review of Economics and Finance	2019	19237529
1486	Efficacy of supplementary cementitious material and hybrid fiber to develop the ultra high performance hybrid fiber reinforced concrete	Sharma R., Bansal P.P.	Sharma, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Bansal, P.P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Advances in Concrete Construction	2019	22875301
1487	Dynamic Multi-objective Virtual Machine Placement in Cloud Data Centers	Prodan R., Torre E., Durillo J.J., Aujla G.S., Kummur N., Fard H.M., Benedikt S.	Prodan, R., Institute of Computer Science, University of Innsbruck, Austria; Torre, E., Leibniz Supercomputing Center, Munich, Germany; Durillo, J.J., Computer Science and Engineering Department, Thapar Institute of Engineering, Patiala (Punjab), India; Aujla, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering, Patiala (Punjab), India; Kummur, N., Technische Universität Darmstadt, Germany; Fard, H.M., Indian Institute of Information Technology, Kottayam, India; Benedikt, S., Institute of Computer Science, University of Innsbruck, Austria, Institute of Software Technology, University of Klagenfurt, Austria	Proceedings - 45th Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2019	2019	
1488	Blockchain as a service for software defined networks: A denial of service attack perspective	Bose A., Aujla G.S., Singh M., Kumar N., Cao H.	Bose, A., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, India; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, India; Singh, M., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Cao, H., Key Lab of Broadband Wireless Communication and Sensor Network Technology, Ministry of Education, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China	Proceedings - IEEE 17th International Conference on Dependable, Autonomic and Secure Computing, IEEE 17th International Conference on Pervasive Intelligence and Computing, IEEE 5th International Conference on Cloud and Big Data Computing, 4th Cyber Science and Technology Congress, DASC-PiCom-CBDCom-CyberSciTech 2019	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1489	Software defined UAV-based location aware deployment scheme for optimal wireless coverage	Vashisht S., Jain S., Mann R.S.	Vashisht, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Mann, R.S., Guru Arjan Dev College of Management and Technology, Gurdaspur, Punjab, India	Proceedings - IEEE 17th International Conference on Dependable, Autonomic and Secure Computing, IEEE 17th International Conference on Pervasive Intelligence and Computing, IEEE 5th International Conference on Cloud and Big Data Computing, 4th Cyber Science and Technology Congress, DASC-PiCom-CBDCom-CyberSciTech 2019	2019	
1490	BloHosT: Blockchain enabled smart tourism and hospitality management	Bodkhe U., Bhattacharya P., Tanwar S., Tyagi S., Kumar N., Obaidat M.S.	Bodkhe, U., Department of Computer Engineering, Nirma University, Institute of Technology, Ahmedabad, Gujarat, India; Bhattacharya, P., Department of Computer Engineering, Nirma University, Institute of Technology, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Engineering, Nirma University, Institute of Technology, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Punjab, India; Obaidat, M.S., King Abdullah II School of IT, University of Jordan, Jordan, Nazarbayev University, Astana, Kazakhstan, University of Science and Technology Beijing, China	CITS 2019 - Proceeding of the 2019 International Conference on Computer, Information and Telecommunication Systems	2019	
1491	HaBiTs: Blockchain-based telesurgery framework for healthcare 4.0	Gupta R., Tanwar S., Tyagi S., Kumar N., Obaidat M.S., Sadoun B.	Gupta, R., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Punjab, India; Obaidat, M.S., King Abdullah II School of IT, University of Jordan, Jordan, Nazarbayev University, Astana, Kazakhstan, University of Science and Technology Beijing, China; Sadoun, B., College of Engineering, Al-Balqa' Applied University, Al-Salt, Jordan	CITS 2019 - Proceeding of the 2019 International Conference on Computer, Information and Telecommunication Systems	2019	
1492	Pre and post process of corporate merger and acquisition technicalities	Sharma R.K., Sharma A.	Sharma, R.K., School of humanities and social sciences, Thapar institute of engineering and technology, Patiala, Punjab, India; Sharma, A., School of humanities and social sciences, Thapar institute of engineering and technology, Patiala, Punjab, India	International Journal of Engineering and Advanced Technology	2019	22498958
1493	A new droop compensated cic decimation filter with improved response	Kaur G., Sharma S.	Kaur, G., Electronics and Communication Engineering Department, Chandigarh University, Mohali, India; Sharma, S., Electronics and Communication Engineering Department, Thapar University, Patiala, India	International Journal of Scientific and Technology Research	2019	22778616
1494	Neural-Based Machine Translation System Outperforming Statistical Phrase-Based Machine Translation for Low-Resource Languages	Singh M., Kumar R., Chana I.	Singh, M., Language Engineering and Machine Learning Research Lab, CSED Thapar Institute of Engineering and Technology(TIET), Patiala, India; Kumar, R., Language Engineering and Machine Learning Research Lab, CSED Thapar Institute of Engineering and Technology(TIET), Patiala, India; Chana, I., Language Engineering and Machine Learning Research Lab, CSED Thapar Institute of Engineering and Technology(TIET), Patiala, India	2019 12th International Conference on Contemporary Computing, IC3 2019	2019	
1495	Comprehensive study of continuous orthogonal moments-A systematic review	Kaur P., Pannu H.S., Malhi A.K.	Kaur, P., CSED, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Pannu, H.S., CSED, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Malhi, A.K., CSED, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	ACM Computing Surveys	2019	3600300
1496	Partial discharge assessment of XLPE cable	Singla M.K., Gupta J., Nijhawan P., Paramane A.	Singla, M.K., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, J., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Paramane, A., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Engineering and Advanced Technology	2019	22498958
1497	A systematic review on imbalanced data challenges in machine learning: Applications and solutions	Kaur H., Pannu H.S., Malhi A.K.	Kaur, H., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malhi, A.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACM Computing Surveys	2019	3600300
1498	Integration of distributed generations in radial distribution network using ABC algorithm	Bala R., Ghosh S.	Bala, R., Department of Electrical Engineering, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab 140407, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Engineering and Advanced Technology	2019	22498958
1499	Tactile Internet for Autonomous Vehicles: Latency and Reliability Analysis	Tanwar S., Tyagi S., Budhiraja I., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Nirma University, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to Be A University, India; Budhiraja, I., Thapar University, Patiala, India; Kumar, N., Institute of Engineering and Technology, India	IEEE Wireless Communications	2019	15361284

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1500	Designing and implementation of freeRTOS multichannel data logger using microcontroller	Gazal, Kamboj S.	Gazal, Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kamboj, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1501	Optimized design of CMUT with hexagonal membranes	Sharma R., Agarwal R., Dubey A.K., Arora A.	Sharma, R., Department of ECE, Amity School of Engineering & Technology, New Delhi, India; Agarwal, R., Department of ECE, Amity School of Engineering & Technology, New Delhi, India; Dubey, A.K., Department of ECE, Amity University, Noida, Uttar Pradesh, India; Arora, A., Department of ECE, Thapar University, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1502	Estimation of Trace Level Cadmium(II) by Polyaniline-zirconium Phosphoborate Nanocomposite-based Membrane Electrode	Sandeep Kaushal, Badru R., Singh P., Kumar S., Mittal S.K.	Sandeep Kaushal, Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Badru, R., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Mittal, S.K., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab, India	Journal of Analytical Chemistry	2019	10619348
1503	Study on material transfer and surface properties during fiber laser cutting of A653 galvanized steel sheet	Sharma V.K., Kumar V.	Sharma, V.K., Thapar Institute of Engineering and Technology, Patiala, India, Meerut Institute of Engineering and Technology, Meerut, India; Kumar, V., Thapar Institute of Engineering and Technology, Patiala, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	16785878
1504	Optimization of Compressor Mounting Bracket of a Passenger Car	Kalsi S., Singh D., Saini J.S.	Kalsi, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Singh, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Saini, J.S., Department of Mechanical and Manufacturing Engineering, Trinity College, The University of Dublin, Dublin-2, Ireland	Journal of The Institution of Engineers (India): Series C	2019	22500545
1505	Study on the nature of distribution of gold nanoparticles inside the 30Bi2O3:70B2O3 glass and its impact on optical behaviour	Singla S., Prabhu S.S., Pandey O.P., Sharma G.	Singla, S., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India, School of Physics and Materials Science, Thapar University, Patiala, 147 004, India; Prabhu, S.S., DCMP, Tata Institute of Fundamental Research, Mumbai, 400005, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, 147 004, India; Sharma, G., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India	Journal of Materials Science: Materials in Electronics	2019	9574522
1506	A Novel Approach to ECG R-Peak Detection	Kaur A., Agarwal A., Agarwal R., Kumar S.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Agarwal, R., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India	Arabian Journal for Science and Engineering	2019	2193567X
1507	A Novel Approach of Congestion Management in Deregulated Power System Using an Advanced and Intelligently Trained Twin Extremity Chaotic Map Adaptive Particle Swarm Optimization Algorithm	Batra I., Ghosh S.	Batra, I., Department of Electrical and Instrumentation Engineering, T.I.E.T., Patiala, Punjab 147003, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, T.I.E.T., Patiala, Punjab 147003, India	Arabian Journal for Science and Engineering	2019	2193567X
1508	Algae-based metallic nanoparticles: Synthesis, characterization and applications	Khanna P., Kaur A., Goyal D.	Khanna, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147 004, India; Kaur, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147 004, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147 004, India	Journal of Microbiological Methods	2019	1677012
1509	The impact of crop residue burning (CRB) on the diurnal and seasonal variability of the ozone and PM levels at a semi-urban site in the north-western Indo-Gangetic plain	Rana M., Mittal S.K., Beig G., Rana P.	Rana, M., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India; Beig, G., Indian Institute of Tropical Meteorology, Pashan, Pune, 411 008, India; Rana, P., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India	Journal of Earth System Science	2019	23474327
1510	Framework for cloud-based software test data generation service	Chawla P., Chana I., Rana A.	Chawla, P., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Chana, I., Department of Computer Science and Engineering, Thapar University, Patiala, India; Rana, A., Department of Computer Science and Engineering, Amity University, Noida, India	Software - Practice and Experience	2019	380644

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1511	BEST: Blockchain-based secure energy trading in SDN-enabled intelligent transportation system	Chaudhary R., Jindal A., Aujla G.S., Aggarwal S., Kumar N., Choo K.-K.R.	Chaudhary, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, A., School of Computing and Communications, Lancaster University, Lancaster, United Kingdom; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali, India; Aggarwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Choo, K.-K.R., Department of Information Systems and Cyber Security and Department of Electrical and Computer Engineering, The University of Texas at San Antonio, San Antonio, TX 78249, United States, School of Information Technology & Mathematical Sciences, University of South Australia, Adelaide, SA 5095, Australia	Computers and Security	2019	1674048
1512	Effect of Zr doping and aging on optical and photocatalytic properties of ZnS nanopowder	Sharma J., Gupta A., Pandey O.P.	Sharma, J., Department of Nanoscience and Technology, Mount Carmel College (Autonomous), Bangalore, 560052, India; Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2019	2728842
1513	Graphitic carbon nitride (g-C ₃ N ₄)-based metal-free photocatalysts for water splitting: A review	Mishra A., Mehta A., Basu S., Shetti N.P., Reddy K.R., Aminabhavi T.M.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K.L.E. Institute of Technology, Gokul, Hubballi, Affiliated to Visvesvaraya Technological University Karnataka 580 030, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia; Aminabhavi, T.M., Soniya College of Pharmacy, Dharwad, Karnataka 580 002, India	Carbon	2019	86223
1514	Sharing app for farm mechanization: Gold Farm's digitized access based solution for financially constrained farmers	Sengupta T., Narayanamurthy G., Moser R., Hota P.K.	Sengupta, T., Department of Operations Management & Quantitative Techniques, Indian Institute of Management Indore, India; Narayanamurthy, G., Operations & Supply Chain Management Department, University of Liverpool Management School, United Kingdom, LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India; Moser, R., University of St.Gallen (HSG), Dufourstrasse 40a, St. Gallen, CH 9000, Switzerland, Indian Institute of Management UdaipurRajasthan 313001, India; Hota, P.K., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India	Computers in Industry	2019	1663615
1515	An Advanced Study on Operations of Connection Number Based on Set Pair Analysis	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	National Academy Science Letters	2019	0250541X
1516	Photoluminescent enhancement with co-doped alkali metals in Gd ₂ O ₃ :Eu synthesized by co-precipitation method and Judd Ofelt analysis	Priya R., Pandey O.P.	Priya, R., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Luminescence	2019	222313
1517	Research article: The impact of academia-industry collaboration on core academic activities: Assessing the latent dimensions	Bhullar S.S., Nangia V.K., Batish A.	Bhullar, S.S., Department of Mechanical Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India; Nangia, V.K., Department of Management Studies, Indian Institute of Technology, Roorkee, Uttarakhand 247667, India; Batish, A., Department of Mechanical Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India	Technological Forecasting and Social Change	2019	401625
1518	Metamaterial inspired CPW-fed compact antenna for ultrawide band applications	Singh H.S., Kalraiya S., Meshram M.K., Shubair R.M.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kalraiya, S., Department of Electronics Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, India; Meshram, M.K., Department of Electronics Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, India; Shubair, R.M., Research Laboratory of Electronics, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States	International Journal of RF and Microwave Computer-Aided Engineering	2019	10964290
1519	Highly efficient CaCO ₃ -CaO extracted from tap water distillation for effective adsorption and photocatalytic degradation of malachite green dye	Bathla A., Singla D., Pal B.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Materials Research Bulletin	2019	255408
1520	A new approach in interpreting some mock theta functions	Sharma S., Rana M.	Sharma, S., Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	International Journal of Number Theory	2019	17930421

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1521	Certificateless searchable public key authenticated encryption with designated tester for cloud-assisted medical Internet of Things	Wu L., Zhang Y., Ma M., Kumar N., He D.	Wu, L., Computer School, Wuhan University, Wuhan, China; Zhang, Y., Computer School, Wuhan University, Wuhan, China; Ma, M., School of Mathematics and Statistics, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China	Annales des Telecommunications/Annals of Telecommunications	2019	34347
1522	A fuzzy hierarchy-based pattern matching technique for melody classification	Kaur C., Kumar R.	Kaur, C., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Kumar, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India	Soft Computing	2019	14327643
1523	Commentary on "New aggregation operators of single-valued neutrosophic hesitant fuzzy set and their application in multi-attribute decision making"	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Pattern Analysis and Applications	2019	14337541
1524	Efficient zone identification approach for the recognition of online handwritten Gurmukhi script	Singh H., Sharma R.K., Singh V.P.	Singh, H., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Sharma, R.K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Singh, V.P., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	Neural Computing and Applications	2019	9410643
1525	Automatic clustering and feature selection using gravitational search algorithm and its application to microarray data analysis	Kumar V., Kumar D.	Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, D., Computer Science and Engineering Department, GIUS&T, Hisar, Haryana, India	Neural Computing and Applications	2019	9410643
1526	Zernike moments-based fingerprint recognition using weighted-support vector machine	Kaur H., Pannu H.S.	Kaur, H., Department of Mathematics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Pannu, H.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Modern Physics Letters B	2019	2179849
1527	Utilization of textile sludge in cement mortar and paste	Goyal S., Siddique R., Jha S., Sharma D.	Goyal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jha, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2019	9500618
1528	A healthcare monitoring system using random forest and internet of things (IoT)	Kaur P., Kumar R., Kumar M.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India	Multimedia Tools and Applications	2019	13807501
1529	Collective enhancement in nuclear level density	Mohanto G., Parihari A., Rout P.C., De S., Mirgule E.T., Srinivasan B., Mahata K., Behera S.P., Kushwaha M., Sarkar D., Nayak B.K., Saxena A., Kumar A.K.R., Gandhi A., Sangeeta, Deb N.K., Arumugam P.	Mohanto, G., Bhabha Atomic Research Centre, Mumbai, 400085, India; Parihari, A., Bhabha Atomic Research Centre, Mumbai, 400085, India, Inter University Accelerator Centre, New Delhi, 110067, India; Rout, P.C., Bhabha Atomic Research Centre, Mumbai, 400085, India, Homi Bhabha National Institute, Anushaktinagar, Mumbai, 400094, India; De, S., Bhabha Atomic Research Centre, Mumbai, 400085, India; Mirgule, E.T., Bhabha Atomic Research Centre, Mumbai, 400085, India; Srinivasan, B., Bhabha Atomic Research Centre, Mumbai, 400085, India; Mahata, K., Bhabha Atomic Research Centre, Mumbai, 400085, India, Homi Bhabha National Institute, Anushaktinagar, Mumbai, 400094, India; Behera, S.P., Bhabha Atomic Research Centre, Mumbai, 400085, India; Kushwaha, M., Bhabha Atomic Research Centre, Mumbai, 400085, India, Department of Physics, University of Mumbai, Mumbai, 400098, India; Sarkar, D., Bhabha Atomic Research Centre, Mumbai, 400085, India; Nayak, B.K., Bhabha Atomic Research Centre, Mumbai, 400085, India, Homi Bhabha National Institute, Anushaktinagar, Mumbai, 400094, India; Saxena, A., Bhabha Atomic Research Centre, Mumbai, 400085, India; Kumar, A.K.R., Department of Physics, Cochin University of Science and Technology, Cochin, 682 022, India; Gandhi, A., Department of Physics, Banaras Hindu University, Varanasi, 221005, India; Sangeeta, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Deb, N.K., Department of Physics, Gauhati University, Guwahati, Assam, 781014, India; Arumugam, P., Department of Physics, Indian Institute of Technology, Roorkee, Uttarakhand, 247 667, India	Physical Review C	2019	24699985
1530	Design and optimization of a dual-band slotted microstrip patch antenna using Differential Evolution Algorithm with improved cross polarization characteristics for wireless applications	Kaur J., Nitika, Panwar R.	Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Nitika, Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Panwar, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, India	Journal of Electromagnetic Waves and Applications	2019	9205071

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1531	Design of Fractional Order PID Controller for Load Frequency Control in Perturbed Two Area Interconnected System	Lamba R., Singla S.K., Sondhi S.	Lamba, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and TechnologyPunjab, India; Singla, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and TechnologyPunjab, India; Sondhi, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and TechnologyPunjab, India	Electric Power Components and Systems	2019	15325008
1532	A study on dictionary learning based image reconstruction techniques for big medical data	Tiwari S., Kaur K., Arya K.V.	Tiwari, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Arya, K.V., Computer Science and Engineering (CSE), Institute of Engineering and Technology, Lucknow, India	Handbook of Multimedia Information Security: Techniques and Applications	2019	
1533	Digital image forensics-gateway to authenticity: Crafted with observations, trends and forecasts	Jindal N., Singh K.	Jindal, N., ECED Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., ECED Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Handbook of Multimedia Information Security: Techniques and Applications	2019	
1534	Hybrid transforms based oblivious fragile watermarking techniques	Kasana G.	Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Handbook of Multimedia Information Security: Techniques and Applications	2019	
1535	Porous carbons derived from polyethylene terephthalate (PET) waste for CO2 capture studies	Kaur B., Singh J., Gupta R.K., Bhunia H.	Kaur, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of Environmental Management	2019	3014797
1536	KnRVEA: A hybrid evolutionary algorithm based on knee points and reference vector adaptation strategies for many-objective optimization	Dhiman G., Kumar V.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Applied Intelligence	2019	0924669X
1537	Dual hybrid medical watermarking using walsh-slantlet transform	Bamal R., Kasana S.S.	Bamal, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Multimedia Tools and Applications	2019	13807501
1538	Recycling and utilization of agro-food waste ashes: syntheses of the glasses for wide-band gap semiconductor applications	Sharma G., Singh K.	Sharma, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Material Cycles and Waste Management	2019	14384957
1539	A convenient method to aggregate CNS by tagging with diphenyl ether molecule	Bhatnagar D., Kumar A., Chaudhary R., Brar L.K., Chhibber M.	Bhatnagar, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 140004, India; Kumar, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 140004, India; Chaudhary, R., School of Physics and MaterialsScience, Thapar Institute of Engineering and Technology, Patiala, 140004, India; Brar, L.K., School of Physics and MaterialsScience, Thapar Institute of Engineering and Technology, Patiala, 140004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 140004, India	AIP Conference Proceedings	2019	0094243X
1540	Study of physical properties of barium based phosphosilicate glasses	Singh J., Singh T., Kaur G., Kumar V.	Singh, J., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140 407, India; Singh, T., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140 407, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, Punjab, 147 004, India; Kumar, V., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140 407, India	AIP Conference Proceedings	2019	0094243X
1541	Content-based image retrieval based on supervised learning and statistical-based moments	Singh V.P., Srivastava R., Pathak Y., Tiwari S., Kaur K.	Singh, V.P., Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, Uttar Pradesh, 211004, India; Srivastava, R., Indian Institute of Technology, Banaras Hindu University, Varanasi Uttar Pradesh, 221005, India; Pathak, Y., ABV Indian Institute of Information Technology and Management (ABV-IIITM), Gwalior, Madhya Pradesh, 474014, India; Tiwari, S., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India; Kaur, K., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India	Modern Physics Letters B	2019	2179849
1542	Low voltage ride through capability enhancement in a grid-connected wind/fuel cell hybrid system via combined feed-forward and fuzzy logic control	Roy A.K., Basak P., Biswal G.R.	Roy, A.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Biswal, G.R., Department of Electrical and Electronics Engineering, Veer Surendra Sai University of Technology, Burla, Odisha, India	IET Generation, Transmission and Distribution	2019	17518687

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1543	MEMS based tin oxide thin film gas sensor for diabetes mellitus applications	Sachdeva S., Agarwal R., Agarwal A.	Sachdeva, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India, CSIR-Central Electronics Engineering Research Institute, Pilani, 333031, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Agarwal, A., CSIR-Central Electronics Engineering Research Institute, Pilani, 333031, India	Microsystem Technologies	2019	9467076
1544	Comparative analysis of chipping mechanics of float glass during rotary ultrasonic drilling and conventional drilling: For multi-shaped tools	Sharma A., Jain V., Gupta D.	Sharma, A., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Jain, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Gupta, D., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India	Machining Science and Technology	2019	10910344
1545	Some modified results of the subtraction and division operations on interval neutrosophic sets	Rani D., Garg H.	Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	Journal of Experimental and Theoretical Artificial Intelligence	2019	0952813X
1546	Improved magnetorheological finishing process with rectangular core tip for external cylindrical surfaces	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Materials and Manufacturing Processes	2019	10426914
1547	Predictive Modelling of RC Skew Slabs: Collapse Load	Sharma M., Kwatra N., Singh H.	Sharma, M., Civil Engg. Department, Thapar University, Patiala, India; Kwatra, N., Civil Engg. Department, Thapar University, Patiala, India; Singh, H., Civil Engg. Department, Guru Nanak Dev Engg. College, Ludhiana, India	Structural Engineering International	2019	10168664
1548	An exponentially fitted numerical technique for singularly perturbed Burgers-Fisher equation on a layer adapted mesh	Sangwan V., Kaur B.	Sangwan, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Computer Mathematics	2019	207160
1549	Sec-IoV: A multi-stage anomaly detection scheme for internet of vehicles	Garg S., Kaur K., Kaddoum G., Gagnon F., Kumar N., Han Z.	Garg, S., École de Technologie Supérieure, Montréal, QC, Canada; Kaur, K., École de Technologie Supérieure, Montréal, QC, Canada; Kaddoum, G., École de Technologie Supérieure, Montréal, QC, Canada; Gagnon, F., École de Technologie Supérieure, Montréal, QC, Canada; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Han, Z., University of Houston, Houston, TX, United States	Proceedings of the International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)	2019	
1550	Low Grade Heat Power Generation using Thermoelectric Generator	Julaihie K., Abu Bakar R., Bhathal Singh B., Remeli M., Oberoi A.	Julaihie, K., Faculty of Mechanical Engineering, UiTM Shah Alam, Malaysia; Abu Bakar, R., Faculty of Mechanical Engineering, UiTM Shah Alam, Malaysia; Bhathal Singh, B., Faculty of Mechanical Engineering, UiTM Shah Alam, Malaysia; Remeli, M., Faculty of Mechanical Engineering, UiTM Shah Alam, Malaysia; Oberoi, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	IOP Conference Series: Earth and Environmental Science	2019	17551307
1551	Object Detection and Gesture Control of Four-Wheel Mobile Robot	Jain M., Sehgal M., Kalra Y., Jain P., Aggarwal N., Singh R., Kumar D., Bera T.K., Singh R.	Jain, M., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Sehgal, M., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Kalra, Y., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Jain, P., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Aggarwal, N., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Singh, R., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Kumar, D., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Bera, T.K., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Singh, R., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India	Proceedings of the 4th International Conference on Communication and Electronics Systems, ICCES 2019	2019	
1552	Design of Knee Exoskeleton using Electromyography Sensor	Jain P., Himanshu G., Bhupendra M., Dharmendra Y., Aditya V., Kumar D., Bera T.K.	Jain, P., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Himanshu, G., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Bhupendra, M., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Dharmendra, Y., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Aditya, V., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Kumar, D., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Bera, T.K., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India	Proceedings of the 4th International Conference on Communication and Electronics Systems, ICCES 2019	2019	
1553	Energy Efficient Solutions for IoT Based Applications	Singh U., Chana I.	Singh, U., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Chana, I., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2019	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1554	Encoding-Decoding Methods for Neural Machine Translation	Singh M., Kumar R., Chana I.	Singh, M., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2019	2019	
1555	User Proximity Analysis of Compact PIFA for MIMO Applications	Singh H.S., Shubair R.M.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Shubair, R.M., Research Laboratory of Electronics, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States	2019 USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), USNC-URSI 2019 - Proceedings	2019	
1556	Application of levenberg marquardt algorithm for short term load forecasting: A theoretical investigation	Singla M.K., Nijhawan P., Oberoi A.S., Singh P.	Singla, M.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Oberoi, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Pertanika Journal of Science and Technology	2019	1287680
1557	Smart indoor air quality monitoring system	Kaur S., Sharma S., Bawa S.	Kaur, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Bawa, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India, InCharge Nava Nalanda Central Library, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Recent Technology and Engineering	2019	22773878
1558	Monitoring dynamic thermal line rating of overhead conductor using real time sag measurement by GPS	Kamboj S., Dahiya R.	Kamboj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dahiya, R., Electrical Engineering Department, National Institute of Technology, Kurukshetra, Haryana, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1559	Ultra wideband coplanar waveguide antenna with an improved gain using a frequency selective surfaces (FSS)	Kaur K., Kaur A.	Kaur, K., Thapar Institute of engineering and technology, Patiala, India; Kaur, A., Thapar Institute of engineering and technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1560	Trends so far in hydrogen fuel cell technology: State of the art	Singla M.K., Oberoi A.S., Nijhawan P.	Singla, M.K., Thapar Institute of Engineering and Technology Patiala, India; Oberoi, A.S., Thapar Institute of Engineering and Technology Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1561	A CPW-fed tomb shaped antenna for UWB applications	Upadhyay A., Khanna R.	Upadhyay, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1562	MGF-based analysis of maximum ratio combining receiver over fisher-snedecor composite fading channel	Shankar H., Kansal A.	Shankar, H., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kansal, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1563	Rectangular zigzag microstrip patch antenna with swastik shape DGS for wlan, C and Ku-band applications	Kaur J., Khanna R., Mittal N.	Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mittal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1564	Concave shape microstrip patch antenna using SRR for 5G applications	Kaur N., Sharma S., Kaur J.	Kaur, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1565	An H-shaped microstrip antenna with meandered slot lines and H-shaped DGS for multiband operation	Sharma R., Geetanjali, Khanna R.	Sharma, R., Thapar UniversityPunjab, India; Geetanjali, Thapar UniversityPunjab, India; Khanna, R., Thapar UniversityPunjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1566	A circular coplanar waveguide fed microstrip patch antenna with modified triangular ground for UWB applications	Kaur G., Kaur A.	Kaur, G., EED, Thapar Institute of engineering and technology, Patiala, Punjab, India; Kaur, A., EED, Thapar Institute of engineering and technology, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1567	Exploration of hybrid FSO/RF availabilities in optical wireless system	Sharma A., Kaler R.S., Qamar S., Monga H., Sharma N.	Sharma, A., Electronics & Communication Engineering Department, JIMS Engineering Management Technical Campus, Greater Noida, India; Kaler, R.S., Electronics & Communication Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Qamar, S., Computer Network & Communication Engineering Department, College of Computer Science, King Khalid University, Abha, Saudi Arabia; Monga, H., Electronics & Communication Engineering Department, Jawahar Lal Nehru Govt. Engineering College, Mandi, India; Sharma, N., Electronics & Communication Engineering Department, ABES Engineering College, Ghaziabad, India	International Journal of Recent Technology and Engineering	2019	22773878
1568	A compact rectangular microstrip patch antenna loaded with stubs and defected partial ground structure for UWB systems	Kaur A., Kaur A.	Kaur, A., ECED, Thapar Institute of Technology, Patiala, India; Kaur, A., ECED, Thapar Institute of Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1569	CBNWI-50: A deep learning bird dataset for image translation and resolution improvement using generative adversarial network	Sharma A., Jindal N.	Sharma, A., Electronics and Communication Department, Thapar Institute of engineering and technology, Patiala, India; Jindal, N., Electronics and Communication Department, Thapar Institute of engineering and technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1570	A novel UWB antenna with reconfigurable notch bands	Sharma R., Khanna R.	Sharma, R., Electronics and Communication Department, Thapar Institute of engineering and technology, Patiala, India; Khanna, R., Electronics and Communication Department, Thapar Institute of engineering and technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1571	Radar cross section reduction techniques using metamaterials	Kaur M., Khanna R., Sharma A.	Kaur, M., Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1572	Design and optimization of microstrip patch antenna using artificial neural networks	Kaur S., Khanna R., Sahni P., Kumar N.	Kaur, S., ECED, Chandigarh Engineering College, Mohali, Landran, Punjab, India; Khanna, R., ECED, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Sahni, P., ECED, Chandigarh Engineering College, Mohali, Landran, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1573	Forecasting monthly gold prices using ARIMA model: Evidence from indian gold market	Sharma R.K., Sharma A.	Sharma, R.K., Thapar University, India; Sharma, A., Thapar University, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1574	Technological upgradation on educational reforms in India	Sharma A.	Sharma, A., Thapar institute of engineering and technology PatialaPunjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1575	Handwriting recognition by machine learning	Sharma A., Sharma A.	Sharma, A., School of humanities and social sciences Thapar institute of engineering and technology PatialaPunjab, India; Sharma, A., School of humanities and social sciences Thapar institute of engineering and technology PatialaPunjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1576	Influence of nuclear surface diffuseness on systems involving spherical and deformed targets	Rajni, Sharma M.K.	Rajni, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Modern Physics E	2019	2183013
1577	Single image defogging by gain gradient image filter	Singh D., Kumar V.	Singh, D., Computer Science and Engineering Department, Apex Institute of Technology, Chandigarh University, Mohali, 140413, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Science China Information Sciences	2019	1674733X
1578	Machine learning-based novel approach to classify the shoulder motion of upper limb amputees	Amanpreet K.	Amanpreet, K., Thapar Institute of Engg and Technology, Patiala, India	Biocybernetics and Biomedical Engineering	2019	2085216
1579	Analysis of competing ground state channels observed in decay of Cm isotopes	Sharma K., Sharma M.K.	Sharma, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Modern Physics E	2019	2183013
1580	Early detection of stroke using texture analysis	Singh M., Garg V., Bhat P.	Singh, M., Thapar Institute of Engineering and Technology, Patiala, India; Garg, V., Post Graduate Institute of Medical Education & Research, Chandigarh, India; Bhat, P., Thapar Institute of Engineering and Technology, Patiala, India	Indian Journal of Forensic Medicine and Toxicology	2019	9739122
1581	Technical up-gradation of education system: Teacher focused learning to student focused learning	Sharma A., Gupta A.	Sharma, A., TIET, India; Gupta, A., TIET, India	International Journal of Recent Technology and Engineering	2019	22773878

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1582	Single channel EMG-based continuous terrain identification with simple classifier for lower limb prosthesis	Gupta R., Agarwal R.	Gupta, R., EIED, TIET, Patiala, Punjab, India; Agarwal, R., EIED, TIET, Patiala, Punjab, India	Biocybernetics and Biomedical Engineering	2019	2085216
1583	Introduction to the Special Section on Innovative Technologies for Microgrid and Smart-grid Systems	Kumar P., Nikolovski S., Ali I.	Kumar, P., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nikolovski, S., Head of Chair of Electrical networks and facilities at Power Engineering Department, Faculty of Electrical Engineering, Computer Science and Information Technology, University of Osijek, Croatia; Ali, I., Faculty of Engineering and Technology, Department of Electrical Engineering, Jamia Millia Islamia (A central University), New Delhi, India	Computers and Electrical Engineering	2019	457906
1584	Efficient three-step class of eighth-order multiple root solvers and their dynamics	Alharbey R.A., Kansal M., Behl R., Machado J.A.T.	Alharbey, R.A., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Behl, R., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Machado, J.A.T., ISEP-Institute of Engineering, Polytechnic of Porto Department of Electrical Engineering, 431, Porto, 4294-015, Portugal	Symmetry	2019	20738994
1585	TCALAS: Temporal credential-based anonymous lightweight authentication scheme for internet of drones environment	Srinivas J., Das A.K., Kumar N., Rodrigues J.J.P.C.	Srinivas, J., Jindal Global Business School, O. P. Jindal Global University, Haryana, 131001, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, 37540-000, Brazil, Instituto de Telecomunicações, Lisbon, 1049-001, Portugal, Federal University of Piauí, Teresina-PI, 64049-550, Brazil	IEEE Transactions on Vehicular Technology	2019	189545
1586	Investigation of rare earth particulate on tribological and mechanical properties of Al-6061 alloy composites for aerospace application	Sharma V.K., Kumar V., Joshi R.S.	Sharma, V.K., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Faculty of Meerut Institute of Engineering and Technology, Meerut, Uttar Pradesh, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Materials Research and Technology	2019	22387854
1587	Effect of mixing parameters, postcuring, and stoichiometry on mechanical properties of fiber reinforced epoxy-clay nanocomposites	Sharma B., Chhibber R., Mehta R.	Sharma, B., Department of Mechanical Engineering, Thapar University, Patiala, India; Chhibber, R., Department of Mechanical Engineering, Indian Institute of Technology, Jodhpur, India; Mehta, R., Department of Chemical Engineering, Thapar University, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2019	14644207
1588	Ammonium-based deep eutectic solvent as entrainer for separation of acetonitrile–water mixture by extractive distillation	Sharma B., Singh N., Kushwaha J.P.	Sharma, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Molecular Liquids	2019	1677322
1589	Matrix product state–based quantum classifier	Bhatia A.S., Saggi M.K., Kumar A., Jain S.	Bhatia, A.S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, A., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Neural Computation	2019	8997667
1590	Robust authenticated encryption scheme with multiple keys for ad hoc networks	Kakkar A., Singh M.	Kakkar, A., Department of Electronics and Communication Engineering, T.J.E.T, India; Singh, M., Department of Electronics and Communication Engineering, R.B.U, India	Indonesian Journal of Electrical Engineering and Computer Science	2019	25024752
1591	Single molecular platform displaying PET and hydrolysis sensing mechanism for differential detection of metal ions	Kumar G., Rani R., Paul K., Luxami V.	Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Rani, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Journal of Photochemistry and Photobiology A: Chemistry	2019	10106030
1592	Al 3+ induced hydrolysis of rhodamine-based Schiff-base: Applications in cell imaging and ensemble as CN - sensor in 100% aqueous medium	Mehta R., Kaur P., Choudhury D., Paul K., Luxami V.	Mehta, R., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, P., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Choudhury, D., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paul, K., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Luxami, V., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2019	10106030
1593	A novel approach for coordinated operation of variable speed wind energy conversion in smart grid applications	Ahuja H., Kumar P.	Ahuja, H., ABES Engineering College, Ghaziabad, Uttar Pradesh 201009, India; Kumar, P., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Computers and Electrical Engineering	2019	457906

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1594	A multipoint tool positioning method for five-axis machining in the region of two intersecting tensor product Bézier surfaces	Sharma S.K., Duvedi R.K., Bedi S., Mann S.	Sharma, S.K., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Duvedi, R.K., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Machine Tools and Manufacture	2019	8906955
1595	Effect of compression ratio on combustion, performance, and emission characteristics of compression ignition engine fueled with palm (B20) biodiesel blend	Rosha P., Mohapatra S.K., Mahla S.K., Cho H., Chauhan B.S., Dhir A.	Rosha, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Cho, H., Department of Mechanical Engineering, Kongju National University, South Korea; Chauhan, B.S., Department of Mechanical Engineering, Lovely Professional University Punjab, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Energy	2019	3605442
1596	Facile sono-chemical synthesis of nanocrystalline MnO ₂ for catalytic and capacitive applications	Rajrana K., Gupta A., Mir R.A., Pandey O.P.	Rajrana, K., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mir, R.A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica B: Condensed Matter	2019	9214526
1597	Influence of co-catalyst amount/size for selective hydrogenation of 1,3-dinitrobenzene over Au-mTiO ₂ nanocomposites under visible light	Aulakh M.K., Pal B.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advanced Powder Technology	2019	9218831
1598	High Precision Low-Voltage WTA/LTA Circuit for Signal Processing Applications	Pandey R., Singh S.	Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Singh, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Wireless Personal Communications	2019	9296212
1599	Security against Attacks and Malicious Code Execution in Mobile Agent Using IBF-CPABE Protocol	Jolly P.K., Batra S.	Jolly, P.K., Department of Computer Science, Thapar University, Punjab, India; Batra, S., Department of Computer Science, Thapar University, Punjab, India	Wireless Personal Communications	2019	9296212
1600	Multi-objective accelerated particle swarm optimization with a container-based scheduling for Internet-of-Things in cloud environment	Adhikari M., Srirama S.N.	Adhikari, M., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Srirama, S.N., Mobile and Cloud Lab, Institute of Computer Science, University of Tartu, Estonia	Journal of Network and Computer Applications	2019	10848045
1601	Effect of molecular weight on morphology and thermal properties of poly(styrene)-poly(methyl methacrylate)-ethylbenzene coatings	Sharma J., Ahuja S., Arya R.K.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India	Progress in Organic Coatings	2019	3009440
1602	Nanoindentation and Bending Fracture Behavior of Flexible Sulfide Thin Films Grown at Near Room Temperature With in Situ Tensile/Compressive Stress	Kim D.B., Lee S.M., Jang J.W., Mohanty B.C., Cho Y.S.	Kim, D.B., Department of Materials Science and Engineering, Yonsei University Seoul 03722, South Korea; Lee, S.M., Department of Materials Science and Engineering, Yonsei University Seoul 03722, South Korea; Jang, J.W., Department of Materials Science and Engineering, Yonsei University Seoul 03722, South Korea; Mohanty, B.C., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Cho, Y.S., Department of Materials Science and Engineering, Yonsei University Seoul 03722, South Korea	Advanced Engineering Materials	2019	14381656
1603	Quaternary polymeric coatings as alternative to minimize the use of single solvent: Poly(methyl methacrylate) – ethylbenzene – toluene – acetone system	Prashar A., Sharma J., Ahuja S., Chandra A., Arya R.K.	Prashar, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road Punjab Patiala-147004, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road Punjab Patiala-147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road Punjab Patiala-147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road Punjab Patiala-147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, GT Road, Bye Pass Punjab Jalandhar – 144011, India	Progress in Organic Coatings	2019	3009440
1604	Chemically activated nanoporous carbon adsorbents from waste plastic for CO ₂ capture: Breakthrough adsorption study	Kaur B., Gupta R.K., Bhunia H.	Kaur, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Microporous and Mesoporous Materials	2019	13871811

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1605	Blockchain-Based Distributed Framework for Automotive Industry in a Smart City	Sharma P.K., Kumar N., Park J.H.	Sharma, P.K., Department of Computer Science and Engineering, Seoul National University of Science and Technology, Seoul, South Korea; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Park, J.H., Department of Computer Science and Engineering, Seoul National University of Science and Technology, Seoul, South Korea	IEEE Transactions on Industrial Informatics	2019	15513203
1606	Enhanced Performance of CNT-doped Imine Based Receptors as Fe(III) Sensor Using Potentiometry and Voltammetry	K. Mittal S., Kumar S., Kaur N.	K. Mittal, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Kumar, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Kaur, N., Department of Chemistry, Panjab University Chandigarh, Punjab, 160014, India	Electroanalysis	2019	10400397
1607	High performance CMOS current mirror using class-AB level shifted bulk driven flipped voltage follower cell	Caffey, Pandey R.	Caffey, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Circuits, Systems and Computers	2019	2181266
1608	Averaged one-dependence estimators on edge devices for smart pregnancy data analysis	Moreira M.W.L., Rodrigues J.J.P.C., Furtado V., Kumar N., Korotaev V.V.	Moreira, M.W.L., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, Instituto Federal de Educação, Ciência e Tecnologia do Ceará (IFCE), Aracati, CE, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, National Institute of Telecommunications (Inatel), Av. João de Camargo, 510-Centro, Santa Rita do Sapucaí 37540-000MG, Brazil; Furtado, V., University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil; Kumar, N., Thapar University, Patiala, Punjab, India; Korotaev, V.V., ITMO University, Saint Petersburg, Russian Federation	Computers and Electrical Engineering	2019	457906
1609	A hybrid intelligent technique for model order reduction in the delta domain: a unified approach	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training and Research, Kolkata, West Bengal 700091, India	Soft Computing	2019	14327643
1610	Multi-objective particle swarm optimization-based adaptive neuro-fuzzy inference system for benzene monitoring	Pannu H.S., Singh D., Malhi A.K.	Pannu, H.S., Thapar University, Patiala, India; Singh, D., Thapar University, Patiala, India; Malhi, A.K., Thapar University, Patiala, India	Neural Computing and Applications	2019	9410643
1611	Data aggregation in underwater wireless sensor network: Recent approaches and issues	Goyal N., Dave M., Verma A.K.	Goyal, N., Dept. of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Dave, M., Dept. of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Verma, A.K., Dept. of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Journal of King Saud University - Computer and Information Sciences	2019	13191578
1612	Interesting makeover of strontium hexaferrites for environment remediation from excellent photocatalysts to outstanding adsorbents via inclusion of Mn ³⁺ into the lattice	Kaur P., Singh S., Kumar V., Tikoo K.B., Chudasama B., Kaushik A., Singhal S.	Kaur, P., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Singh, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Kumar, V., HR-TEM Facility Lab, National Institute of Pharmaceutical Education and Research, (NIPER), SAS Nagar, Punjab, 160062, India; Tikoo, K.B., HR-TEM Facility Lab, National Institute of Pharmaceutical Education and Research, (NIPER), SAS Nagar, Punjab, 160062, India; Chudasama, B., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Kaushik, A., Dr. SSB UICET, Panjab University, Chandigarh, 160014, India; Singhal, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Journal of Alloys and Compounds	2019	9258388
1613	"I don't buy LED bulbs but I switch off the lights": Green consumption versus sustainable consumption	Sharma N., Saha R., Rameshwar R.	Sharma, N., Department of Commerce, Delhi School of Economics, University of Delhi, New Delhi, India; Saha, R., SRM University Delhi – NCR SonapatHaryana, India; Rameshwar, R., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to be University) Patiala, Punjab, India	Journal of Indian Business Research	2019	17554195
1614	Simulating longitudinal vibrations of coupled oscillator using the fourth-order Runge-Kutta method by programming spreadsheet	Singh I., Kaur B., Khun Khun K.	Singh, I., PG Department of Physics, Khalsa College, Amritsar, 143005, India; Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khun Khun, K., PG Department of Physics, Khalsa College, Amritsar, 143005, India	European Journal of Physics	2019	1430807
1615	A review: Intelligent load prediction techniques for cloudiot	Verma S., Bala A.	Verma, S., Department of Computer Science and Engineering, Thapar Institute of Engg. and Technology, Patiala, Punjab, India; Bala, A., Department of Computer Science and Engineering, Thapar Institute of Engg. and Technology, Patiala, Punjab, India	ACM International Conference Proceeding Series	2019	
1616	Cooling Environment Effect on the Microstructure and Mechanical Properties of Friction Stir-Welded Joints	Singh R.K.R., Rathod D.W., Prasad R., Pandey S.	Singh, R.K.R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Prasad, R., Indian Institute of Technology Delhi, New Delhi, India; Pandey, S., Indian Institute of Technology Delhi, New Delhi, India	Journal of Materials Engineering and Performance	2019	10599495

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1617	Residence time distribution measurements in an ethyl acetate reactor using radiotracer technique	Datta A., Gupta R.K., Goswami S., Sharma V.K., Bhunia H., Singh D., Pant H.J.	Datta, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Goswami, S., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Sharma, V.K., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Singh, D., IOL Chemicals and Pharmaceuticals Limited, Barnala, 148101, India; Pant, H.J., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	Journal of Radioanalytical and Nuclear Chemistry	2019	2365731
1618	Autophagy inhibition with chloroquine reverts paclitaxel resistance and attenuates metastatic potential in human nonsmall lung adenocarcinoma A549 cells via ROS mediated modulation of β -catenin pathway	Datta S., Choudhury D., Das A., Mukherjee D.D., Dasgupta M., Bandopadhyay S., Chakrabarti G.	Datta, S., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Das, A., Department of Chemistry, National Institute of Technology, Ravangla, Sikkim 737139, India; Mukherjee, D.D., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India; Dasgupta, M., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India; Bandopadhyay, S., Cell Biology & Physiology Division, CSIR – Indian Institute of Chemical Biology, Kolkata, 700032, India; Chakrabarti, G., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India	Apoptosis	2019	13608185
1619	A convolutional feature map-based deep network targeted towards traffic detection and classification	Kaur B., Bhattacharya J.	Kaur, B., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhattacharya, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Expert Systems with Applications	2019	9574174
1620	Effect of temperature on the performance analysis of MLGMR interconnects	Kaur T., Rai M.K., Khanna R.	Kaur, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Computational Electronics	2019	15698025
1621	An efficient low-dose CT reconstruction technique using partial derivatives based guided image filter	Pathak Y., Arya K.V., Tiwari S.	Pathak, Y., Multimedia and Information Security Lab, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior, 474015, India; Arya, K.V., Multimedia and Information Security Lab, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior, 474015, India; Tiwari, S., Thapar University, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1622	General correlation coefficient based agglomerative clustering	Pandove D., Goel S., Rani R.	Pandove, D., Research Lab, CSED, Thapar University, Patiala, Punjab, India; Goel, S., Department of Computer Science Engineering, School of Engineering, Bennett Institute of Higher Education, Greater Noida, UP, India; Rani, R., CSED, Thapar University, Patiala, Punjab, India	Cluster Computing	2019	13867857
1623	Design and development of resonant loop antenna for mock-up ion cyclotron resonance frequency system of tokamak	Jain A., Yadav R.P., Kumar S.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., High Power ICRH Division, Institute for Plasma Research, Gandhinagar, Gujarat, 382428, India	IET Microwaves, Antennas and Propagation	2019	17518725
1624	Protection of concrete structures under sulfate environments by using calcifying bacteria	Joshi S., Goyal S., Mukherjee A., Reddy M.S.	Joshi, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mukherjee, A., Department of Civil Engineering, Curtin University, Bentley, 6102, Australia; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Construction and Building Materials	2019	9500618
1625	Experimental investigation on effect of RE oxides addition on tribological and mechanical properties of Al-6063 based hybrid composites	Sharma V.K., Kumar V., Joshi R.S.	Sharma, V.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Research Express	2019	20531591
1626	A sampling theorem with error estimation for S-transform	Ranjan R., Jindal N., Singh A.K.	Ranjan, R., Electronics & Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Electronics & Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Electronics & Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Integral Transforms and Special Functions	2019	10652469
1627	Evaluation and mechanism of cationic/anionic dyes extraction from water by ionic liquids	Mahajan S., Singh N., Kushwaha J.P., Rajor A.	Mahajan, S., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, India	Chemical Engineering Communications	2019	986445

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1628	Solar irradiance forecasting using fuzzy logic and multilinear regression approach: A case study of Punjab, India	Mehta S., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, India	International Journal of Advances in Applied Sciences	2019	22528814
1629	Special issue on "Pythagorean fuzzy set and its extensions in decision-making process"	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Complex and Intelligent Systems	2019	21994536
1630	Machine Learning-based Software Effort Estimation: An Analysis	Polkowski Z., Vora J., Tanwar S., Tyagi S., Singh P.K., Singh Y.	Polkowski, Z., Jan Wyzkowski University, Polkowice, Poland; Vora, J., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Engineering, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed University, Department of ECE, Patiala, India; Singh, P.K., Jaypee University of Information Technology, Department of Computer Science and Engineering, Wakanaghat, India; Singh, Y., Central University of Jammu, Department of Computer Science and Information Technology, J and K, India	Proceedings of the 11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2019	2019	
1631	Deployment and Coverage in Wireless Sensor Networks: A Perspective	Singh Y., Lone J.A., Singh P.K., Polkowski Z., Tanwar S., Tyagi S.	Singh, Y., Central University of Jammu, Department of Computer Science and Information Technology, Jammu, J and K, India; Lone, J.A., Central University of Jammu, Department of Computer Science and Information Technology, Jammu, J and K, India; Singh, P.K., Jaypee University of Information Technology, Department of Computer Science and Engineering, Wakanaghat Solan, India; Polkowski, Z., Rector's Representative for International Cooperation and Erasmus+ Programme, Jan Wyzkowski University, Polkowice, Poland; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, India; Tyagi, S., Thapar Institute of Technology, Department of Electronics and Communication Engineering, Patiala, India	Proceedings of the 11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2019	2019	
1632	Hexagonal shaped slot antenna resonant frequency determination using ANN approach	Kumar R., Kumar P., Vijay R.	Kumar, R., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kumar, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Vijay, R., Banasthali University, Rajasthan, India	Microwave Review	2019	14505835
1633	Experimental investigation of basin type solar still having paraffin wax in the Basin	Thakur V., Dhindsa G.S., Mittal M.K., Sokhal G.S.	Thakur, V., Department of Mechanical Engineering, Chandigarh University Punjab, India; Dhindsa, G.S., Department of Mechanical Engineering, Chandigarh University Punjab, India; Mittal, M.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Tech Punjab, India; Sokhal, G.S., Department of Mechanical Engineering, Chandigarh University Punjab, India	International Journal of Mechanical and Production Engineering Research and Development	2019	22496890
1634	Subchannel assignment for SWIPT-NOMA based HetNet with imperfect channel state information	Budhiraja I., Tyagi S., Tanwar S., Kumar N., Guizani N.	Budhiraja, I., Thapar Institute of Engineering Technology, Deemed to Be University, Patiala, Punjab, India; Tyagi, S., Thapar Institute of Engineering Technology, Deemed to Be University, Patiala, Punjab, India; Tanwar, S., Department of Computer Engineering, Nirma University, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering Technology, Deemed to Be University, Patiala, Punjab, India; Guizani, N., Purdue University, United States	2019 15th International Wireless Communications and Mobile Computing Conference, IWCMC 2019	2019	
1635	Improving Neural Machine Translation Using Rule-Based Machine Translation	Singh M., Kumar R., Chana I.	Singh, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Chana, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India	2019 7th International Conference on Smart Computing and Communications, ICSCC 2019	2019	
1636	New Improved SALSHADE-cnEpsN Algorithm with Adaptive Parameters	Salgotra R., Singh U., Saha S., Nagar A.	Salgotra, R., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, India; Singh, U., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, India; Saha, S., Dept. of Computer Science, Indian Institute of Technology, Patna, India; Nagar, A., Dept. of Mathematics, Liverpool Hope University, Liverpool, United Kingdom	2019 IEEE Congress on Evolutionary Computation, CEC 2019 - Proceedings	2019	
1637	SWOT analysis of e-marketing for e-business	Steer K., Garg L., Prakash V., Gupta V.	Steer, K., Faculty of Information and Communication Technology, University of Malta, Msida, Malta; Garg, L., Faculty of Information and Communication Technology, University of Malta, Msida, Malta; Prakash, V., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Gupta, V., LM Thapar School of Management, Derabassi, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1638	An Approach to Adaptive Protection Scheme for a PV Generator Based Microgrid	Singh M., Kaur S., Basak P.	Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering Technology, India, India; Kaur, S., Siemens Limited, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering Technology, India, India	2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019	2019	
1639	Performance assessment of software defined networks management protocol in real environments	Da Costa T.S., Silva J.D.C., Rodrigues J.J.P.C., Rabelo R.A.L., Kumar N., Solic P.	Da Costa, T.S., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil; Silva, J.D.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, MG, Brazil; Instituto de Telecomunicacoes, Portugal, Federal University of Piauí (UFPI), Teresina, PI 64049-550, Brazil; Rabelo, R.A.L., Federal University of Piauí (UFPI), Teresina, PI 64049-550, Brazil; Kumar, N., Thapar University, Patiala, Punjab, India; Solic, P., University of Split, Split, Croatia	2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1640	Performance of MLGMR, SWCNT and copper as interconnects for nanometer technologies	Sandha K.S., Sharma H.	Sandha, K.S., Thapar Institute of Engineering and Technology (TIET), Patiala, India; Sharma, H., Thapar Institute of Engineering and Technology (TIET), Patiala, India	International Journal of Engineering and Advanced Technology	2019	22498958
1641	Impact of variable interconnect length on the performance of MWCNT as VLSI interconnect for nanometer integrated circuit design	Sandha K.S., Dhillon G.	Sandha, K.S., ECED, Thapar Institute of Engineering & Technology, Patiala, India; Dhillon, G., ECED, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Engineering and Advanced Technology	2019	22498958
1642	Exponential similarity measures for Pythagorean fuzzy sets and their applications to pattern recognition and decision-making process	Nguyen X.T., Nguyen V.D., Nguyen V.H., Garg H.	Nguyen, X.T., Faculty of Information Technology, Vietnam National University of Agriculture, Trau Quy, Gia Lam, Hanoi, Viet Nam; Nguyen, V.D., Faculty of Information Technology, Vietnam National University of Agriculture, Trau Quy, Gia Lam, Hanoi, Viet Nam; Nguyen, V.H., Faculty of Information Technology, Vietnam National University of Agriculture, Trau Quy, Gia Lam, Hanoi, Viet Nam; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Complex and Intelligent Systems	2019	21994536
1643	Multiple distributed generation system penetration in a radial distribution network	Gill A., Yadav S.K., Singh P.	Gill, A., University of Rajasthan, Jaipur Thapar University of Patiala Punjab, India; Yadav, S.K., JECRC, India; Singh, P., Malviya National Institute of Technology (MNIT) Jaipur Rajasthan, India	International Journal of Engineering and Advanced Technology	2019	22498958
1644	Super wide-band slotted trishul-shaped microstrip patch antenna for wireless applications	Kaur A., Kaur J., Kumar N.	Kaur, A., Giani Zail Singh Campus College of Engg. and Tech.Punjab, India; Kaur, J., BBSBEC, Punjab Technical University, Fatehgarh Sahib, Jalandhar, India; Kumar, N., TIET Punjab, India	International Journal of Engineering and Advanced Technology	2019	22498958
1645	Hybrid text classification method for fake news detection	Kaur P., Boparai R.S., Singh D.	Kaur, P., Department of, Computer Science and Applications in Big Data specialization from Chandigarh University, Gharuan, India; Boparai, R.S., Apex Institute of Technology, Chandigarh University, India; Singh, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Engineering and Advanced Technology	2019	22498958
1646	Fog Computing for Smart Grid Systems in the 5G Environment: Challenges and Solutions	Kumari A., Tanwar S., Tyagi S., Kumar N., Obaidat M.S., Rodrigues J.J.P.C.	Kumari, A., Nirma University, India; Tanwar, S., Nirma University, India; Tyagi, S., Thapar Institute of Engineering, India; Kumar, N., Thapar Institute of Engineering, India; Obaidat, M.S., Nazarbayev University, University of Jordan, University of Science and Technology, Beijing, China; Rodrigues, J.J.P.C., Instituto de Telecomunicações	IEEE Wireless Communications	2019	15361284
1647	Adopting Bricolage to Overcome Resource Constraints: The Case of Social Enterprises in Rural India	Hota P.K., Mitra S., Qureshi I.	Hota, P.K., LM Thapar School of Management, TIET, India; Mitra, S., Indian Institute of Management Kozhikode, India; Qureshi, I., Australian National University, Australia	Management and Organization Review	2019	17408776
1648	Content-based cybercrime detection: A concise review	Singh A., Kaur M.	Singh, A., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, M., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1649	A novel partitioning driven differential evolution based epileptic seizure cluster analysis	Kaur M., Dhalaria M.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dhalaria, M., Computer Science Department, Jaypee University of Information and Technology, Waknaghat, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1650	Biological based algorithms for cost optimization for competitive power system market: A review	Gupta R., Mahajan A.N., Gaur A.M.	Gupta, R., Electrical and Electronics Engineering Department, MAIT, Maharaja Agrasen University, Baddi, 174103, India; Mahajan, A.N., Electronics and Communication Engineering Department, MAIT, Maharaja Agrasen University, Baddi, 174103, India; Gaur, A.M., Electrical and Instrumentation Engineering Department, TIET, Patiala, 147004, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1651	Partitioning in three dimensional integration microelectronics using cuckoo search meta-heuristic	Kaur M., Prashar A.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Prashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1652	Energy efficient offloading strategy in fog-cloud environment for IoT applications	Adhikari M., Gianey H.	Adhikari, M., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gianey, H., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Internet of Things (Netherlands)	2019	25426605
1653	Fine structure effect among heavy-ion induced fission fragments at near and above barrier energies	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	European Physical Journal A	2019	14346001
1654	Optimum generation scheduling of coordinated power system using hybrid optimization technique	Kaur A., Narang N.	Kaur, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Electrical Engineering	2019	9487921

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1655	Solar Energy a Path to India's Prosperity	Chandra Y.P., Singh A., Kannojiya V., Kesari J.P.	Chandra, Y.P., University Centre for Energy Efficient Buildings (UCEEB), Czech Technical University in Prague (CVUT), Prague, Czech Republic; Singh, A., Mechanical Engineering Department, Thapar University, Patiala, India; Kannojiya, V., Department of Mechanical Engineering, Indian Institute of Technology Roorkee, Roorkee, India; Kesari, J.P., Department of Mechanical Engineering, Delhi Technological University (DTU), Delhi, India	Journal of The Institution of Engineers (India): Series C	2019	22500545
1656	Dynamic task scheduling using balanced VM allocation policy for fog computing platforms	Singh S.P., Nayyar A., Kaur H., Singla A.	Singh, S.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nayyar, A., Graduate School, Duy Tan University, Da Nang, Viet Nam; Kaur, H., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, India; Singla, A., Computer Science and Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India	Scalable Computing	2019	18951767
1657	Introduction to the special issue on recent trends and future of fog and edge computing, services, and enabling technologies	Nayyar A., Rameshwar R., Pramanik P.K.D.	Nayyar, A., Duy Tan University, Danang, Viet Nam; Rameshwar, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pramanik, P.K.D., National Institute of Technology, Durgapur, India	Scalable Computing	2019	18951767
1658	Influence of Ca-doped NaNbO3 and its heterojunction with g-C3N4 on the photoredox performance	Singh Vig A., Rani N., Gupta A., Pandey O.P.	Singh Vig, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rani, N., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Solar Energy	2019	0038092X
1659	Modified fractional order IMC design based drug scheduling for cancer treatment	Pachauri N., Yadav J., Rani A., Singh V.	Pachauri, N., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Yadav, J., Instrumentation & Control Engineering Division, Azad Hind Fauz Marg, NSIT, Dwarka Sec-3, New Delhi, 110078, India; Rani, A., Instrumentation & Control Engineering Division, Azad Hind Fauz Marg, NSIT, Dwarka Sec-3, New Delhi, 110078, India; Singh, V., Instrumentation & Control Engineering Division, Azad Hind Fauz Marg, NSIT, Dwarka Sec-3, New Delhi, 110078, India	Computers in Biology and Medicine	2019	104825
1660	Securing electronics healthcare records in Healthcare 4.0: A biometric-based approach	Hathaliya J.J., Tanwar S., Tyagi S., Kumar N.	Hathaliya, J.J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of Electronics and Communication Engineering, Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Kumar, N., Department of Electronics and Communication Engineering, Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Computers and Electrical Engineering	2019	457906
1661	C * -algebra-valued partial metric space and fixed point theorems	Chandok S., Kumar D., Park C.	Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kumar, D., Department of Mathematics, Lovely Professional University, Jalandhar, 144 411, India, Department of Mathematics, IKG Punjab Technical University, Kapurthala, 144 603, India; Park, C., Research Institute for Natural Sciences, Hanyang University, Seoul, 04763, South Korea	Proceedings of the Indian Academy of Sciences: Mathematical Sciences	2019	2534142
1662	Combinatorial identities for tenth order mock theta functions	Goyal M., Rana M.	Goyal, M., Department of Mathematical Sciences, I.K. Gujral Punjab Technical University, Jalandhar, Main Campus, Kapurthala, 144 603, India; Rana, M., School of Mathematics, Thapar University, Patiala, 147 001, India	Proceedings of the Indian Academy of Sciences: Mathematical Sciences	2019	2534142
1663	Enhanced Ozone Production in Ambient Air at Patiala Semi-Urban Site During Crop Residue Burning Events	Rana M., Mittal S.K., Beig G.	Rana, M., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, Patiala, 147004, India; Mittal, S.K., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, Patiala, 147004, India; Beig, G., Indian Institute of Tropical Meteorology, Pashan, Pune, 411008, India	Mapan - Journal of Metrology Society of India	2019	9703950
1664	Catalytic reforming of synthetic biogas for hydrogen enrichment over Ni supported on ZnO mixed catalyst	Rosha P., Mohapatra S.K., Mahla S.K., Dhir A.	Rosha, P., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Kapurthala144603, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala147004, India	Biomass and Bioenergy	2019	9619534
1665	Dynamics of an SEIR epidemic model with nonlinear incidence and treatment rates	Upadhyay R.K., Pal A.K., Kumari S., Roy P.	Upadhyay, R.K., Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India; Pal, A.K., Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India; Kumari, S., Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India; Roy, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Nonlinear Dynamics	2019	0924090X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1666	Layer-Jamming Suction Grippers with Variable Stiffness	Bamotra A., Walia P., Prituja A.V., Ren H.	Bamotra, A., Department of Biomedical Engineering, National University of Singapore, Singapore, 119077, Singapore, Thapar Institute of Engineering and Technology, Punjab, 145001, India; Walia, P., Department of Biomedical Engineering, National University of Singapore, Singapore, 119077, Singapore; Prituja, A.V., Department of Biomedical Engineering, National University of Singapore, Singapore, 119077, Singapore; Ren, H., Department of Biomedical Engineering, National University of Singapore, Singapore, 119077, Singapore	Journal of Mechanisms and Robotics	2019	19424302
1667	Adsorptive removal of fipronil from its aqueous solution by modified zeolite HZSM-5: Equilibrium, kinetic and thermodynamic study	Rathi A., Basu S., Barman S.	Rathi, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Molecular Liquids	2019	1677322
1668	STOA: A bio-inspired based optimization algorithm for industrial engineering problems	Dhiman G., Kaur A.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala 147004, Punjab, India; Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala 147004, Punjab, India	Engineering Applications of Artificial Intelligence	2019	9521976
1669	Emission of light charged particles and fission fragments from Hf α and Pt α nuclei	Sharma I., Sharma M.K.	Sharma, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2019	3759474
1670	Fragmentation analysis and α -decay half-lives of trans-Sn nuclei	Sharma K., Sharma M.K.	Sharma, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Nuclear Physics A	2019	3759474
1671	Multi-target-directed triazole derivatives as promising agents for the treatment of Alzheimer's disease	Kaur A., Mann S., Kaur A., Priyadarshi N., Goyal B., Singhal N.K., Goyal D.	Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Mann, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Priyadarshi, N., National Agri-Food Biotechnology Institute, S.A.S. Nagar Punjab, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Singhal, N.K., National Agri-Food Biotechnology Institute, S.A.S. Nagar Punjab, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India	Bioorganic Chemistry	2019	452068
1672	Influence of TiO ₂ and thermal processing on morphological, structural and magnetic properties of Fe ₂ O ₃ /MnO ₂ modified glass-ceramics	Danewalia S.S., Kaur S., Bansal N., Khan S., Singh K.	Danewalia, S.S., Division of Research and Development, Lovely Professional University, Phagwara, 144411, India; Kaur, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Bansal, N., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Non-Crystalline Solids	2019	223093
1673	An efficient resource prediction-based scheduling technique for scientific applications in cloud environment	Kaur G., Bala A.	Kaur, G., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Bala, A., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Concurrent Engineering Research and Applications	2019	1063293X
1674	Group decision-making method based on prioritized linguistic intuitionistic fuzzy aggregation operators and its fundamental properties	Arora R., Garg H.	Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Computational and Applied Mathematics	2019	22383603
1675	Role of conducting polymer and metal oxide-based hybrids for applications in amperometric sensors and biosensors	Dakshayini B.S., Reddy K.R., Mishra A., Shetti N.P., Malode S.J., Basu S., Naveen S., Raghu A.V.	Dakshayini, B.S., Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bangalore, Karnataka 560078, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, University of Sydney, Sydney, NSW 2006, Australia; Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Affiliated to Visvesvaraya Technological University, Gokul, Hubballi, Karnataka 580030, India; Malode, S.J., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Affiliated to Visvesvaraya Technological University, Gokul, Hubballi, Karnataka 580030, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Naveen, S., School of Basic Sciences, School of Engineering & Technology, Jain University, Bangalore, 562 112, India; Raghu, A.V., School of Basic Sciences, School of Engineering & Technology, Jain University, Bangalore, 562 112, India	Microchemical Journal	2019	0026265X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1676	ES-COINA: A novel energy scalable quality-aware color interpolation architecture	Garg B., Rai S.K., Puranik A., Sharma G.K.	Garg, B., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology (Thapar University), Patiala, India; Rai, S.K., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology (Thapar University), Patiala, India; Puranik, A., ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India; Sharma, G.K., ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India	Microprocessors and Microsystems	2019	1419331
1677	CPW fed rectangular rings-based patch antenna with DGS for WLAN/UNII applications	Singla G., Khanna R., Parkash D.	Singla, G., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar University, Punjab, India; Parkash, D., Department of Electronics and Communication Engineering, University Institute of Engineering, Chandigarh University, Ghauran, Punjab, India	International Journal of Microwave and Wireless Technologies	2019	17590787
1678	Access-based business model innovation in frontier markets: Case study of shared mobility in Timor-Leste	Wiprächtiger D., Narayanamurthy G., Moser R., Sengupta T.	Wiprächtiger, D., University of St.Gallen (HSG), Dufourstrasse 40a, St. Gallen, CH-9000, Switzerland; Narayanamurthy, G., University of Liverpool Management School, Chatham Street, Liverpool, L69 7ZH, United Kingdom, LM Thapar School of Management, Thapar University, Patiala, India; Moser, R., University of St.Gallen (HSG), Dufourstrasse 40a, St. Gallen, CH-9000, Switzerland, Indian Institute of Management Udaipur, Rajasthan, 313001, India; Sengupta, T., Indian Institute of Management Indore, IIM Indore, Prabhathi Shikhar, Rau-Pithampur Road, Indore, 453331, India	Technological Forecasting and Social Change	2019	401625
1679	Performance evaluation of various classifiers for predicting knee angle from electromyography signals	Dhindsa I.S., Agarwal R., Ryaith H.S.	Dhindsa, I.S., Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Agarwal, R., Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Ryaith, H.S., Department of Electronics, Baba Banda Singh Bhadur Engineering College, Fatehgarh Sahib, India	Expert Systems	2019	2664720
1680	An improved multimodal medical image fusion scheme based on hybrid combination of nonsubsampled contourlet transform and stationary wavelet transform	Ramlal S.D., Sachdeva J., Ahuja C.K., Khandelwal N.	Ramlal, S.D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sachdeva, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ahuja, C.K., Department of Radio Diagnosis and Imaging, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Khandelwal, N., Department of Radio Diagnosis and Imaging, Postgraduate Institute of Medical Education and Research, Chandigarh, India	International Journal of Imaging Systems and Technology	2019	8999457
1681	Xanthine oxidase inhibitors from an endophytic fungus Lasiodiplodia pseudotheobromae	Kumar S., Pagar A.D., Ahmad F., Dwibedi V., Wani A., Bharatam P.V., Chhibber M., Saxena S., Pal Singh I.	Kumar, S., Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), Sector-67, S. A. S. Nagar 160 062, Punjab, India; Pagar, A.D., Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), Sector-67, S. A. S. Nagar 160 062, Punjab, India; Ahmad, F., Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), Sector-67, S. A. S. Nagar 160 062, Punjab, India; Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Wani, A., Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), Sector-67, S. A. S. Nagar 160 062, Punjab, India; Bharatam, P.V., Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), Sector-67, S. A. S. Nagar 160 062, Punjab, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal Singh, I., Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), Sector-67, S. A. S. Nagar 160 062, Punjab, India	Bioorganic Chemistry	2019	452068
1682	ClamPP: a cloud-based multi-party privacy preserving classification scheme for distributed applications	Kaur H., Kumar N., Batra S.	Kaur, H., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Batra, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Journal of Supercomputing	2019	9208542
1683	Lattice-based public key cryptosystem for internet of things environment: Challenges and solutions	Chaudhary R., Aujla G.S., Kumar N., Zeadally S.	Chaudhary, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aujla, G.S., College of Communication and Information, University of Kentucky, Lexington, KY 140413, United States; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY 140413, United States	IEEE Internet of Things Journal	2019	23274662
1684	Influence of an External Magnetic Field on the Flow of a Casson Fluid in Micro-Annulus Between Two Concentric Cylinders	Kumar D., Ramesh K., Chandok S.	Kumar, D., Department of Mathematics, Lovely Professional University, Jalandhar, 144411, India, Department of Mathematics, IKG Punjab Technical University, Kapurthala, 144603, India; Ramesh, K., Department of Mathematics, Lovely Professional University, Jalandhar, 144411, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bulletin of the Brazilian Mathematical Society	2019	16787544

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1685	Seasonal and Spatial Variation of Particulate Aerosols and Carbonaceous Species in PM2.5 in the Periphery of Chandigarh, India	Garg S., Thakur D., Singh R., Rajor A., Dhir A.	Garg, S., School of Energy and Environment, Thapar Institute of Engineering and Technology University, Bhadson Road, P.O. Box 32, Patiala, Punjab 147004, India; Thakur, D., Eco Laboratories and Consultants Pvt. Ltd., E-207, Industrial Area, Phase-VIII B, Sector-74, Mohali, Punjab 160071, India; Singh, R., Eco Laboratories and Consultants Pvt. Ltd., E-207, Industrial Area, Phase-VIII B, Sector-74, Mohali, Punjab 160071, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology University, Bhadson Road, P.O. Box 32, Patiala, Punjab 147004, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology University, Bhadson Road, P.O. Box 32, Patiala, Punjab 147004, India	Mapan - Journal of Metrology Society of India	2019	9703950
1686	A study of big data evolution and research challenges	Gupta D., Rani R.	Gupta, D., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, India; Rani, R., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, India	Journal of Information Science	2019	1655515
1687	Multi-shaped tool wear study during rotary ultrasonic drilling and conventional drilling for amorphous solid	Sharma A., Jain V., Gupta D.	Sharma, A., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Jain, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2019	9544089
1688	Software-defined network-enabled opportunistic offloading and charging scheme in multi-unmanned aerial vehicle ecosystem	Vashisht S., Jain S.	Vashisht, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (deemed to be university), Patiala, India; Jain, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (deemed to be university), Patiala, India	International Journal of Communication Systems	2019	10745351
1689	Microwave processing and characterization of nickel powder based metal matrix composite castings	Singh S., Gupta D., Jain V.	Singh, S., Mechanical Engineering Department, NorthCap University, Haryana, Gurgaon, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Materials Research Express	2019	20531591
1690	Malware Capability Assessment using Fuzzy Logic	Sharma A., Gandotra E., Bansal D., Gupta D.	Sharma, A., Department of Computer Science and Engineering, PEC University of Technology, Chandigarh, India; Gandotra, E., Department of Computer Science and Engineering, PEC University of Technology, Chandigarh, India; Bansal, D., Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology, Waknaghat, Solan, India; Gupta, D., Department of Computer Science and Engineering, PEC University of Technology, Chandigarh, India; Gupta, D., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Cybernetics and Systems	2019	1969722
1691	Impact of environment on the kinetics involved in the solid-state synthesis of bismuth ferrite	Sharma P., Diwan P.K., Pandey O.P.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India, Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India	Materials Chemistry and Physics	2019	2540584
1692	Metal oxide nanohybrids-based low-temperature sensors for NO ₂ detection: a short review	Mishra A., Basu S., Shetti N.P., Reddy K.R.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Visvesvaraya Technological University, Gokul, Hubballi, Karnataka 580030, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Journal of Materials Science: Materials in Electronics	2019	9574522
1693	Dynamic CO ₂ adsorption on activated carbon adsorbents synthesized from polyacrylonitrile (PAN): Kinetic and isotherm studies	Singh J., Basu S., Bhunia H.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India	Microporous and Mesoporous Materials	2019	13871811
1694	AEP-PPA: An anonymous, efficient and provably-secure privacy-preserving authentication protocol for mobile services in smart cities	Li J., Zhang W., Dabra V., Choo K.-K.R., Kumari S., Hogrefe D.	Li, J., State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China, Institute of Computer Science, University of Goettingen, Goettingen, 37077, Germany; Zhang, W., State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Dabra, V., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States; Kumari, S., Department of Mathematics, Ch. Charan Singh University, Meerut, Uttar Pradesh, India; Hogrefe, D., Institute of Computer Science, University of Goettingen, Goettingen, 37077, Germany	Journal of Network and Computer Applications	2019	10848045
1695	Modelling and Analysis of Respiratory System with Congestive Heart Failure	Potturu S.R., Pal T., Maka S.	Potturu, S.R., Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India; Pal, T., Department of Electrical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Maka, S., Department of Electrical Engineering, IIT Kharagpur, Kharagpur, 721302, India	2019 5th Indian Control Conference, ICC 2019 - Proceedings	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1696	Interactive decision support system for planned student scheduling using same-time scheduling in timetable	Guleria S.K., Lal A.K.	Guleria, S.K., Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Lal, A.K., Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Modern Physics Letters B	2019	2179849
1697	A scalable correlation-based approach for outlier detection in wireless body sensor networks	Saneja B., Rani R.	Saneja, B., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Communication Systems	2019	10745351
1698	PID Based Chemotherapeutic Drug Scheduling for Cancer Treatment	Arya V., Pachauri N.	Arya, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Pachauri, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	2019 6th International Conference on Signal Processing and Integrated Networks, SPIN 2019	2019	
1699	Rotary ultrasonic milling of C/SiC composites fabricated using chemical vapor infiltration and needling technique	Babbar A., Sharma A., Jain V., Jain A.K.	Babbar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Sharma, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, A.K., Vikram Sarabhai Space Centre, Indian Space Research Organization (ISRO), Thiruvananthapuram, India	Materials Research Express	2019	20531591
1700	Erosion wear performance of Ni-Cr-O and NiCrBSiFe-WC(Co) composite coatings deposited by HVOF technique	Singh J., Kumar S., Mohapatra S.K.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Industrial Lubrication and Tribology	2019	368792
1701	Content-based retrieval of biomedical images using orthogonal Fourier-Mellin moments	Sharma S., Aggarwal A.	Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Aggarwal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization	2019	21681163
1702	An overview of simultaneous saccharification and fermentation of starchy and lignocellulosic biomass for bio-ethanol production	Saggi S.K., Dey P.	Saggi, S.K., Department of Biotechnology, Thapar University, Patiala, India; Dey, P., Department of Biotechnology, SOET, ITM University, Gwalior, India, Department of Biosciences and Technology, Karunya University, Coimbatore, India	Biofuels	2019	17597269
1703	A short survey on role of bloom filters in named data networking	Kaur R., Singh A., Batra S.	Kaur, R., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, India; Singh, A., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, India; Batra, S., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, India	2019 International Conference on Intelligent Computing and Control Systems, ICCS 2019	2019	
1704	Web personalization recommendation system through semantics	Hanjraw S.K., Yadav K., Kaur K.	Hanjraw, S.K., Uttarakhand Technical University, India; Yadav, K., COER Roorke, Department of CSE, India; Kaur, K., Thapar University, Department of CSE, India	2019 International Conference on Intelligent Computing and Control Systems, ICCS 2019	2019	
1705	Single Muscle Surface EMGs Locomotion Identification Module for Prosthesis Control	Gupta R., Agarwal R.	Gupta, R., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Agarwal, R., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India	Neurophysiology	2019	902977
1706	Design and Development of Capacitively Coupled Plasma Monopole Antenna	Kamboj G.K., Yadav R.P., Jain A., Kaler R.S.	Kamboj, G.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Yadav, R.P., Electronics and Communication Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Jain, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Kaler, R.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering Technology, Patiala, Punjab, India	2019 IEEE Canadian Conference of Electrical and Computer Engineering, CCECE 2019	2019	
1707	An Efficient Automated Hybrid Algorithm to Predict Floods in Cloud Environment	Kaur G., Bala A.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2019 IEEE Canadian Conference of Electrical and Computer Engineering, CCECE 2019	2019	
1708	Picard-Jungck operator for a pair of mappings and simulation type functions	Chandok S., Mukheimer A., Hussain A., Paunović L.	Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mukheimer, A., Department of Mathematics and General Sciences, Prince Sultan University, Riyadh, 11586, Saudi Arabia; Hussain, A., Department of Mathematics, University of Sargodha, Sargodha, 40100, Pakistan; Paunović, L., Teacher Education School in Prizren-Leposavić, University of Priština, Leposavić, 43500, Serbia	Mathematics	2019	22277390
1709	Analysis of feature extraction techniques for speech recognition system	Ranjan R., Thakur A.	Ranjan, R., Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Thakur, A., Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1710	SmartChain: A smart and scalable blockchain consortium for smart grid systems	Bansal G., Dua A., Aujla G.S., Singh M., Kumar N.	Bansal, G., Department of CSIS, Birla Institute of Technology and Science, Pilani, India; Dua, A.; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali (Punjab), India; Singh, M., Computer Science and Engineering Department, Chandigarh University, Mohali (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India	2019 IEEE International Conference on Communications Workshops, ICC Workshops 2019 - Proceedings	2019	
1711	Bloom filter based efficient caching scheme for content distribution in vehicular networks	Dua A., Shishodia M., Kumar N., Aujla G.S., Kumar N.	Dua, A., Department of Computer Science, Birla Institute of Technology and Science, Pilani, Rajasthan, India; Shishodia, M., Department of Computer Science, Birla Institute of Technology and Science, Pilani, Rajasthan, India; Kumar, N., Department of Computer Science, Birla Institute of Technology and Science, Pilani, Rajasthan, India; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali (Punjab), India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India	2019 IEEE International Conference on Communications Workshops, ICC Workshops 2019 - Proceedings	2019	
1712	Standardising the use of duplex channels in 5G-WiFi networking for ambient assisted living	Kaneriya S., Vora J., Tanwar S., Tyagi S.	Kaneriya, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Vora, J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala (Punjab), India	2019 IEEE International Conference on Communications Workshops, ICC Workshops 2019 - Proceedings	2019	
1713	DLRS: Deep Learning-Based Recommender System for Smart Healthcare Ecosystem	Aujla G.S., Jindal A., Chaudhary R., Kumar N., Vashist S., Sharma N., Obaidat M.S.	Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Jindal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Chaudhary, R., School of Computing and Communications, Lancaster University, Lancaster, LA1 4WA, United Kingdom; Kumar, N., ECE Department, Nazarbayev University, Astana, Kazakhstan, King Abdullah II School of Information Technology, University of Jordan, Jordan, University of Science and Technology, Beijing, China; Vashist, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Sharma, N., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India; Obaidat, M.S., Computer Science and Engineering Department, Chandigarh University, Gharuan, Punjab, India	IEEE International Conference on Communications	2019	15503607
1714	Can Tactile Internet be a Solution for Low Latency Heart Disorientation Measure: An Analysis	Kaneriya S., Lakhani D., Brahmabhatt H.U., Tanwar S., Tyagi S., Kumar N., Rodrigues J.J.P.C.	Kaneriya, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India, Thapar Institute of Engineering AND Technology (Deemed to Be University), Patiala, India; Lakhani, D., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Brahmabhatt, H.U., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Thapar Institute of Engineering AND Technology (Deemed to Be University), Patiala, India; Kumar, N., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Rodrigues, J.J.P.C., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India	IEEE International Conference on Communications	2019	15503607
1715	Markov Decision-Based Recommender System for Sleep Apnea Patients	Kaneriya S., Chudasama M., Tanwar S., Tyagi S., Kumar N., Rodrigues J.J.P.C.	Kaneriya, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Chudasama, M., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala (Punjab), India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala (Punjab), India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí-MG, Brazil, Instituto de Telecomunicações, Portugal, Federal University of Piauí (UFPI), Teresina, PI, Brazil	IEEE International Conference on Communications	2019	15503607
1716	CARaM: Coordinated Adaptive Replica Management for Charging Station	Bhatt R., Garg C., Singh H., Kumar N., Rodrigues J.J.P.C.	Bhatt, R., Department of Computer Science, TIET, Patiala, Punjab, India; Garg, C., Department of Computer Science, TIET, Patiala, Punjab, India; Singh, H., Department of Computer Science, TIET, Patiala, Punjab, India; Kumar, N., Department of Computer Science, TIET, Patiala, Punjab, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí - MG, Brazil, Instituto de Telecomunicacoes, Portugal, Universidade de Fortaleza (UNIFOR), Fortaleza - CE, Brazil	IEEE International Conference on Communications	2019	15503607
1717	Fetal Birth Weight Estimation in High-Risk Pregnancies Through Machine Learning Techniques	Moreira M.W.L., Rodrigues J.J.P.C., Furtado V., Mavromoustakis C.X., Kumar N., Woungang I.	Moreira, M.W.L., Instituto de Telecomunicac Oes, Universidade da Beira Interior, Covilha, Portugal, Instituto Federal de Educac Ao, Ciencia e Tecnologia Do Ceara (IFCE), Aracati CE, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicac Oes, Universidade da Beira Interior, Covilha, Portugal, National Institute of Telecommunications (Inatel), Santa Rita Do Sapucaí, MG, Brazil; Furtado, V., University of Fortaleza (UNIFOR), Fortaleza, CE, Brazil; Mavromoustakis, C.X., University of Nicosia, Nicosia, Cyprus; Kumar, N., Computer Science AND Engineering Department, Thapar University, Patiala (Punjab), India; Woungang, I., Department of Computer Science, Ryerson University, Toronto, ON, Canada	IEEE International Conference on Communications	2019	15503607
1718	A New Secure Data Dissemination Model in Internet of Drones	Aggarwal S., Shojafar M., Kumar N., Conti M.	Aggarwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Shojafar, M., Department of Mathematics, University of Padua, Italy; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Conti, M., Department of Mathematics, University of Padua, Italy	IEEE International Conference on Communications	2019	15503607

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1719	A review on solar wind for possible application in electric vehicle	Singhal A., Nijhawan P.	Singhal, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1720	Experimental heat transfer analysis of Copper oxide nanofluids through a straight tube	Singh P., Oberoi A.S., Nijhawan P.	Singh, P., Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1721	Modelling of automatic material handling system using PLC	Kumar H., Kamboj S.	Kumar, H., Department of Foreign Language Studies, Nagasaki Wesleyan University, Isahaya, Nagasaki 8540082, Japan; Kamboj, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1722	Role of battery energy storage system in modern electric distribution networks - A review	Sharma M., Nijhawan P., Sinha A.	Sharma, M., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India; Sinha, A., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1723	A multi-walled carbon nanotube electrode for renewable energy storage: An experimental investigation on cyclic charging and discharging	Kapoor D., Oberoi A.S., Nijhawan P.	Kapoor, D., Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1724	Electrical load forecasting using machine learning	Singla M.K., Gupta J., Nijhawan P., Oberoi A.S.	Singla, M.K., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, J., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1725	Artificial intelligence: employment and society	Verma S., Sharma A.	Verma, S., SHSS, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., SHSS, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1726	Bio-inspired computational approaches for breast cancer cluster analysis	Kaur M., Dhalaria M.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dhalaria, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Recent Technology and Engineering	2019	22773878
1727	Slotted circular microstrip patch antenna with reduced ground plane for S, E, G, X and KU-band applications	Kaur A., Kaur J.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1728	Modelling and simulation for single phase low voltage on-board charger for plug-in electric vehicle (Pev) charging applications	Singla G., Prakash S.	Singla, G., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1729	Verification of analog & mixed signal IPs using Sv-Uvm methodology	Padhee S.S., Arora A.	Padhee, S.S., Thapar Institute of Engineering and Technology, Patiala, India; Arora, A., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Innovative Technology and Exploring Engineering	2019	22783075
1730	Verification and validation techniques for streaming big data analytics in internet of things environment	Kumari A., Tanwar S., Tyagi S., Kumar N.	Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Pb., India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Pb., India	IET Networks	2019	20474954
1731	Placing the newly observed state BJ (5840) in bottom spectra along with states B1 (5721), B2* (5747), Bs1 (5830), B2s* (5840), and BJ (5970)	Gupta P., Upadhyay A.	Gupta, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Upadhyay, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physical Review D	2019	24700010
1732	Cross Layer NOMA Interference Mitigation for Femtocell Users in 5G Environment	Budhiraja I., Tyagi S., Tanwar S., Kumar N., Guizani M.	Budhiraja, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guizani, M., Department of Computer Science and Engineering, Qatar University, Doha, 2713, Qatar	IEEE Transactions on Vehicular Technology	2019	189545

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1733	Selenium-rich maize modulates the expression of prostaglandin genes in lipopolysaccharide-stimulated RAW264.7 macrophages	Dhanjal N.I., Sharma S., Skalnaya A.V., Skalnaya M.G., Ajsuvakova O.P., Tinkov A.A., Zhang F., Guo X., Prabhu K.S., Tejo Prakash N.	Dhanjal, N.I., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Thapar Institute of Engineering and Technology, Patiala, India; Skalnaya, A.V., Yaroslavl State University, Yaroslavl, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, Russian Federation, Federal Research Centre of Biological Systems, Agro-Technologies of the Russian Academy of Sciences, Orenburg, Russian Federation; Skalnaya, M.G., IM Sechenov First Moscow State Medical University, Moscow, Russian Federation, Peoples' Friendship University of Russia, RUDN University, Moscow, Russian Federation; Ajsuvakova, O.P., Yaroslavl State University, Yaroslavl, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, Russian Federation; Tinkov, A.A., Yaroslavl State University, Yaroslavl, Russian Federation, IM Sechenov First Moscow State Medical University, Moscow, Russian Federation, Institute of Cellular and Intracellular Symbiosis, Russian Academy of Sciences, Orenburg, Russian Federation; Zhang, F., Key Laboratory of Trace Elements and Endemic Diseases of National Health, School of Public Health, Health Science Center, Xian Jiaotong University, Xian, China; Guo, X., Key Laboratory of Trace Elements and Endemic Diseases of National Health, School of Public Health, Health Science Center, Xian Jiaotong University, Xian, China; Prabhu, K.S., Department of Veterinary and Biomedical Sciences, Penn State Cancer Institute, Pennsylvania State University, University Park, PA, United States; Tejo Prakash, N., Thapar Institute of Engineering and Technology, Patiala, India	Food and Function	2019	20426496
1734	Tactile internet for smart communities in 5G: An insight for NOMA-based solutions	Budhiraja I., Tyagi S., Tanwar S., Kumar N., Rodrigues J.J.P.C.	Budhiraja, I., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147003, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147003, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147003, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, 37540-000, Brazil, Instituto de Telecomunicações, Lisboa, 1049-001, Portugal	IEEE Transactions on Industrial Informatics	2019	15513203
1735	Effect of electroslag remelting and homogenization on hydrogen flaking in AMS-4340 ultra-high-strength steels	Kasana S.S., Pandey O.P.	Kasana, S.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Star Wire (India) Ltd., Ballabgarh, Haryana, 121004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Minerals, Metallurgy and Materials	2019	16744799
1736	Isolation of taxol producing endophytic fungus Alternaria brassicicola from non-Taxus medicinal plant Terminalia arjuna	Gill H., Vasundhara M.	Gill, H., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	World Journal of Microbiology and Biotechnology	2019	9593993
1737	Diversity and phylogeny of resveratrol-producing culturable endophytic fungi from Vitis species in India	Dwivedi V., Saxena S.	Dwivedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Thapar University, Patiala, Punjab 147001, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Thapar University, Patiala, Punjab 147001, India	3 Biotech	2019	2190572X
1738	Location-Aware Network of Drones for Consumer Applications: Supporting Efficient Management between Multiple Drones	Vashist S., Jain S.	Vashist, S., Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Consumer Electronics Magazine	2019	21622248
1739	Unmanned Aerial Vehicles in Consumer Applications: New Applications in Current and Future Smart Environments	Kumar N., Puthal D., Theocharides T., Mohanty S.P.	Kumar, N., Thapar University, Patiala, India; Puthal, D., University of Technology, Sydney, Australia; Theocharides, T., University of Cyprus, Nicosia, Cyprus; Mohanty, S.P., University of North Texas, Denton, United States	IEEE Consumer Electronics Magazine	2019	21622248
1740	Performance investigation of magnetorheological finishing of rolls surface in cold rolling process	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Manufacturing Processes	2019	15266125
1741	Fire Sensing Technologies: A Review	Kumar A., Gaur A., Singh A., Kumar A., Kulkarni K.S., Lala S., Kapoor K., Srivastava V., Mukhopadhyay S.C.	Kumar, A., Council of Scientific and Industrial Research, Central Building Research Institute, Roorkee, 247667, India; Gaur, A., Council of Scientific and Industrial Research, Central Building Research Institute, Roorkee, 247667, India; Singh, A., Council of Scientific and Industrial Research, Central Building Research Institute, Roorkee, 247667, India; Kumar, A., Council of Scientific and Industrial Research, Central Building Research Institute, Roorkee, 247667, India; Kulkarni, K.S., Council of Scientific and Industrial Research, Central Building Research Institute, Roorkee, 247667, India; Lala, S., Council of Scientific and Industrial Research, Central Building Research Institute, Roorkee, 247667, India; Kapoor, K., College of Engineering Roorkee, Uttarakhand Technical University, Roorkee, Uttarakhand, 247667, India; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mukhopadhyay, S.C., Macquarie University, Sydney, NSW 2109, Australia	IEEE Sensors Journal	2019	1530437X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1742	Computational screening of potential drug targets for pathogens causing bacterial pneumonia	Nayak S., Pradhan D., Singh H., Reddy M.S.	Nayak, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India, ICMR - AIIMS Computational Genomics Centre, ISRM, Indian Council of Medical Research (ICMR), Ansari Nagar, New Delhi, 110029, India; Pradhan, D., ICMR - AIIMS Computational Genomics Centre, ISRM, Indian Council of Medical Research (ICMR), Ansari Nagar, New Delhi, 110029, India; Singh, H., ICMR - AIIMS Computational Genomics Centre, ISRM, Indian Council of Medical Research (ICMR), Ansari Nagar, New Delhi, 110029, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Microbial Pathogenesis	2019	8824010
1743	Heavy metal hypertolerant eukaryotic aldehyde dehydrogenase isolated from metal contaminated soil by metatranscriptomics approach	Mukherjee A., Yadav R., Marmeisse R., Fraissinet-Tachet L., Reddy M.S.	Mukherjee, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Yadav, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Marmeisse, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Fraissinet-Tachet, L., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Biochimie	2019	3009084
1744	Structural, electronic and optical properties of pulsed laser deposited Cu ₂ SnS ₃ photo absorber thin films: A combined experimental and computational study	Thota N., Kumar M., Vishwakarma M., Mehta B.R.	Thota, N., Thin Film Laboratory, Department of Physics, Indian Institute of Technology Delhi, New Delhi, 110016, India; Kumar, M., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Vishwakarma, M., Thin Film Laboratory, Department of Physics, Indian Institute of Technology Delhi, New Delhi, 110016, India; Mehta, B.R., Thin Film Laboratory, Department of Physics, Indian Institute of Technology Delhi, New Delhi, 110016, India	Thin Solid Films	2019	406090
1745	NbC/C heterojunction for efficient photodegradation of methylene blue under visible irradiation	Gupta A., Pandey O.P.	Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Solar Energy	2019	0038092X
1746	Treatment of real pharmaceutical wastewater using combined approach of Fenton applications and aerobic biological treatment	Changotra R., Rajput H., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2019	10106030
1747	Enhanced photocatalytic degradation of industrial dye by g-C ₃ N ₄ /TiO ₂ nanocomposite: Role of shape of TiO ₂	Monga D., Basu S.	Monga, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Advanced Powder Technology	2019	9218831
1748	Synthesis of Fe ₂ O ₃ /TiO ₂ monoliths for the enhanced degradation of industrial dye and pesticide via photo-Fenton catalysis	Singh J., Sharma S., Aanchal, Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Aanchal, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2019	10106030
1749	In situ investigations of microstructural changes during tensile deformation of AISI 304L stainless steels	Singh N., Nanda T., Kumar B.R., Das S.K., Singh V.	Singh, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, B.R., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Das, S.K., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India; Singh, V., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab, 140001, India	Archives of Civil and Mechanical Engineering	2019	16449665
1750	An energy-efficient and location-aware Medium Access Control for quality of service enhancement in unmanned aerial vehicular networks	Vashisht S., Jain S.	Vashisht, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Computers and Electrical Engineering	2019	457906
1751	An efficient page ranking approach based on vector norms using sNorm(p) algorithm	Goel S., Kumar R., Kumar M., Chopra V.	Goel, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, R., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Chopra, V., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Information Processing and Management	2019	3064573

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1752	Algorithms for possibility linguistic single-valued neutrosophic decision-making based on COPRAS and aggregation operators with new information measures	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Measurement: Journal of the International Measurement Confederation	2019	2632241
1753	An Efficient Privacy Preserving Authentication Scheme for Vehicular Communications	Malhi A.K., Batra S., Pannu H.S.	Malhi, A.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, P.O. Box 32, Patiala, Punjab 147004, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, P.O. Box 32, Patiala, Punjab 147004, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, P.O. Box 32, Patiala, Punjab 147004, India	Wireless Personal Communications	2019	9296212
1754	Waste plastic derived carbon supported Mo 2 C composite catalysts for hydrogen production and energy storage applications	Mir R.A., Pandey O.P.	Mir, R.A., Functional Materials Lab, SPMS, TIET, Patiala (Pb), India; Pandey, O.P., Functional Materials Lab, SPMS, TIET, Patiala (Pb), India	Journal of Cleaner Production	2019	9596526
1755	Sub-surface drip fertigation with conservation agriculture in a rice-wheat system: A breakthrough for addressing water and nitrogen use efficiency	Sidhu H.S., Jat M.L., Singh Y., Sidhu R.K., Gupta N., Singh P., Singh P., Jat H.S., Gerard B.	Sidhu, H.S., Borlaug Institute for South Asia (BISA), CIMMYT, LudhawalPunjab 141 004, India; Jat, M.L., International Maize and Wheat Improvement Centre (CIMMYT), NASC Complex, Pusa, New Delhi, 110012, India; Singh, Y., INSA Honorary Scientist, Department of Soils, Punjab Agricultural University, Ludhiana, India; Sidhu, R.K., Thapar University, Patiala, Punjab, India; Gupta, N., Borlaug Institute for South Asia (BISA), CIMMYT, LudhawalPunjab 141 004, India; Singh, P., International Maize and Wheat Improvement Centre (CIMMYT), NASC Complex, Pusa, New Delhi, 110012, India; Singh, P., Borlaug Institute for South Asia (BISA), CIMMYT, LudhawalPunjab 141 004, India; Jat, H.S., International Maize and Wheat Improvement Centre (CIMMYT), NASC Complex, Pusa, New Delhi, 110012, India; Gerard, B., International Maize and Wheat Improvement Centre (CIMMYT), El-Batan, Texcoco, Mexico	Agricultural Water Management	2019	3783774
1756	Effect of elevated temperatures and applied pressure on the tribological properties of LM30/sillimanite aluminium alloy composites	Sharma S., Nanda T., Pandey O.P.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, India	Journal of Composite Materials	2019	219983
1757	Effect of three-step calcination on structural, magnetic and microwave properties of BaFe 11.5 Ti 0.5 O 19 hexaferrite	Mahadevan S., Narang S.B., Sharma P.	Mahadevan, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Ceramics International	2019	2728842
1758	MGF-based analysis of κ - μ /gamma composite fading model for indoor off body communication	Shankar H., Kansal A.	Shankar, H., Research Scholar, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, A., Thapar Institute of Engineering and Technology, Patiala, India	Transactions on Emerging Telecommunications Technologies	2019	21615748
1759	Probabilistic data structure-based community detection and storage scheme in online social networks	Singh A., Garg S., Batra S., Kumar N.	Singh, A., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala (Punjab), India; Garg, S., Electrical Engineering Department, École de technologie supérieure (ÉTS), Université du Québec, Montréal, QC H3C 1K3, Canada; Batra, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala (Punjab), India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala (Punjab), India	Future Generation Computer Systems	2019	0167739X
1760	A distributed overlapping community detection model for large graphs using autoencoder	Bhatia V., Rani R.	Bhatia, V., Department of Computer Science and Engineering, Amity School of Engineering and Technology, Amity University, Noida, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Future Generation Computer Systems	2019	0167739X
1761	An efficient watermarking scheme for enhanced high efficiency video coding/h.265	Kaur G., Kasana S.S., Sharma M.K.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1762	The cloud computing adoption in higher learning institutions in Kenya: Hindering factors and recommendations for the way forward	Njenga K., Garg L., Bhardwaj A.K., Prakash V., Bawa S.	Njenga, K., University of Liverpool, Liverpool, United Kingdom; Garg, L., University of Liverpool, Liverpool, United Kingdom, University of Malta, Msida, Malta; Bhardwaj, A.K., L.M. Thapar School of Management, Derabassi, Punjab, India; Prakash, V., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Telematics and Informatics	2019	7365853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1763	A secure image encryption algorithm based on fractional transforms and scrambling in combination with multimodal biometric keys	Kaur J., Jindal N.	Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1764	Counter JPEG anti-forensic approach based on the second-order statistical analysis	Singh G., Singh K.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Information Forensics and Security	2019	15566013
1765	Video frame and region duplication forgery detection based on correlation coefficient and coefficient of variation	Singh G., Singh K.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1766	Study on role of particle shape in erosion wear of austenitic steel using image processing analysis technique	Singh J., Kumar S., Mohapatra S.K.	Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2019	13506501
1767	Postpartum depression prediction through pregnancy data analysis for emotion-aware smart systems	Moreira M.W.L., Rodrigues J.J.P.C., Kumar N., Saleem K., Illin I.V.	Moreira, M.W.L., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, Instituto Federal de Educação, Ciência e Tecnologia do Ceará (IFCE), Aracati, Brazil; Rodrigues, J.J.P.C., Instituto de Telecomunicações, Universidade da Beira Interior, Covilhã, Portugal, National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, Av. João de Camargo, 510 - CentroMG 37540-000, Brazil, University of Fortaleza (UNIFOR), FortalezaCE, Brazil, Center of Excellence in Information Assurance (CoEIA), King Saud University, Riyadh, 11653, Saudi Arabia; Kumar, N., Thapar University, Patiala (Punjab), India; Saleem, K., Center of Excellence in Information Assurance (CoEIA), King Saud University, Riyadh, 11653, Saudi Arabia; Illin, I.V., Peter the Great Saint Petersburg Polytechnic University, Saint Petersburg, Russian Federation	Information Fusion	2019	15662535
1768	Energy trading with dynamic pricing for electric vehicles in a smart city environment	Aujla G.S., Kumar N., Singh M., Zomaya A.Y.	Aujla, G.S., Computer Science & Engineering Department, Chandigarh University, Mohali, India, Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Singh, M., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Zomaya, A.Y., School of Information Technologies, University of Sydney, NSW, Australia	Journal of Parallel and Distributed Computing	2019	7437315
1769	Coordinated Power Control of Electric Vehicles for Grid Frequency Support: MILP-Based Hierarchical Control Design	Kaur K., Kumar N., Singh M.	Kaur, K., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, 147004, India	IEEE Transactions on Smart Grid	2019	19493053
1770	Renewable Energy-Based Multi-Indexed Job Classification and Container Management Scheme for Sustainability of Cloud Data Centers	Kumar N., Aujla G.S., Garg S., Kaur K., Ranjan R., Garg S.K.	Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali Punjab, India; Garg, S., École de Technologie Supérieure, Université du Québec, Montréal, QC, Canada; Kaur, K., École de Technologie Supérieure, Université du Québec, Montréal, QC, Canada; Ranjan, R., Department of Computer Science, Newcastle University, Newcastle-upon-Tyne, NE1 7RU, United Kingdom; Garg, S.K., Department of Computing and Information System, Faculty of Engineering and ICT, University of Tasmania, Hobart, TAS NE1 7RU, Australia	IEEE Transactions on Industrial Informatics	2019	15513203
1771	Synergistic effect of the addition of TiO 2 feedstock on solid particle erosion of Ni/Al 2 O 3 and Ni/Cr 2 O 3 coatings	Singh V., Kumar S., Ratha D.	Singh, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Department of Mechanical Engineering, NIT Jamshedpur, Jharkhand, 831014, India; Ratha, D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wear	2019	431648
1772	Analysis of surface finishing mechanism in a newly developed rotational magnetorheological honing process for its productivity improvement	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wear	2019	431648
1773	Effect of RE addition on wear behavior of an Al-6061 based hybrid composite	Sharma V.K., Kumar V., Joshi R.S.	Sharma, V.K., Thapar Institute of Engineering and Technology, Patiala, India, Faculty of Meerut Institute of Engineering & Technology, Meerut, India; Kumar, V., Thapar Institute of Engineering and Technology, Patiala, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Patiala, India	Wear	2019	431648

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1774	Investigation of T4 and T6 heat treatment on the wear properties of sillimanite reinforced LM30 aluminium alloy composites	Sharma S., Nanda T., Pandey O.P.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Wear	2019	431648
1775	Robust LQR Based ANFIS Control of x-z Inverted Pendulum	Chawla I., Chopra V., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar Institute of Engineering Technology, Patiala, India; Chopra, V., Department of Electrical Instrumentation Engineering, Thapar Institute of Engineering Technology, Patiala, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering Technology, Patiala, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1776	Taxonomy of Security Attacks on Cloud Environment: A Case Study on Telemedicine	Gill K.S., Saxena S., Sharma A.	Gill, K.S., CSED, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Saxena, S., CSED, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Sharma, A., CSED, Thapar Institute of Engineering and Technology, Patiala Punjab, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1777	A Secure Reversible Data Hiding Scheme for Digital Images using Random Grid Visual Secret Sharing	Kukreja S., Kasana G.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, 147004, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1778	Optimizing Replica Creation using Agents in Data Grids	Vashisht P., Kumar V., Kumar R., Sharma A.	Vashisht, P., Department of Computer Science and Engineering, Amity School of Engineering and Technology, Delhi, India; Kumar, V., Department of Applied Mathematics, Amity Institute of Applied Sciences, Amity University, Noida, India; Kumar, R., Department of Computer Science and Engineering, Thapar University, Patiala, India; Sharma, A., Department of Computer Science and Engineering, MRSPTU, Bhatinda, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1779	A Survey on Medical Images for Reversible Data Hiding Techniques	Bhagat D., Bhardwaj R.	Bhagat, D., CSED Department, Thapar Institute of Engineering Technology, Patiala, India; Bhardwaj, R., CSED Department, Thapar Institute of Engineering Technology, Patiala, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1780	Obstacle Avoidance of Mobile Robot using Fuzzy Logic and Hybrid Obstacle Avoidance Algorithm	Singh R., Bera T.K.	Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Mechanical Eng., Thapar Institute of Engineering and Technology, Patiala, India	IOP Conference Series: Materials Science and Engineering	2019	17578981
1781	Local Coupled Extreme Learning Machine Based Image Watermarking using DCT in YCbCr Space	Yadav A.K., Mehta R.	Yadav, A.K., Amity School of Engineering and Technology DCSE, Delhi, India; Mehta, R., Thapar Institute of Engineering and Technology. CSED, Patiala Punjab, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1782	Comparative Analysis of Newton's Higher Order Methods for Load Flow Problem	Bhalla S., Kumar S., Aggarwal S.K.	Bhalla, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Aggarwal, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1783	Spectral-Spatial Hyperspectral Image Classification using Deep Learning	Singh S., Kasana S.S.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India	Proceedings - 2019 Amity International Conference on Artificial Intelligence, AICAI 2019	2019	
1784	Electrochemical and optical studies of facile synthesized molybdenum disulphide (MoS ₂) nano structures	Kaur N., Mir R.A., Pandey O.P.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Mir, R.A., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India	Journal of Alloys and Compounds	2019	9258388
1785	Investigation of various decay mechanisms for Th + 216 following the S 32 + W 184 reaction in the range e c. m.=118-196 MeV	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physical Review C	2019	24699985
1786	SURVIVOR: A blockchain based edge-as-a-service framework for secure energy trading in SDN-enabled vehicle-to-grid environment	Jindal A., Aujla G.S., Kumar N.	Jindal, A., School of Computing & Communications, Lancaster University, Lancaster, United Kingdom; Aujla, G.S., Computer Science & Engineering Department, Chandigarh University, Mohali, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Computer Networks	2019	13891286

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1787	Characterization of Trichoderma asperellum RM-28 for its sodic/saline-alkali tolerance and plant growth promoting activities to alleviate toxicity of red mud	Anam G.B., Reddy M.S., Ahn Y.-H.	Anam, G.B., Department of Civil Engineering, Yeungnam University, Gyeongsan, 38541, South Korea; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Ahn, Y.-H., Department of Civil Engineering, Yeungnam University, Gyeongsan, 38541, South Korea	Science of the Total Environment	2019	489697
1788	Evolution of Ca ₂ SiO ₄ and Ca ₃ Si ₂ O ₇ crystalline phases synthesized from agro-food waste ashes	Kaur M., Singh K.	Kaur, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	AIP Conference Proceedings	2019	0094243X
1789	Meta-heuristic Ant Colony Optimization Based Unequal Clustering for Wireless Sensor Network	Guleria K., Verma A.K.	Guleria, K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab 147001, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab 147001, India	Wireless Personal Communications	2019	9296212
1790	Analysis of Asynchronous Distributed Space Time Block Coded System Based on Optimal Relay Selection	Sood V.V., Sharma S., Khanna R.	Sood, V.V., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2019	9296212
1791	Comparative Analysis of Mixed CNTs and MWCNTs as VLSI Interconnects for Deep Sub-micron Technology Nodes	Sandha K.S., Thakur A.	Sandha, K.S., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Thakur, A., Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Electronic Materials	2019	3615235
1792	Multi-metal tolerance of von Willebrand factor type D domain isolated from metal contaminated site by metatranscriptomics approach	Thakur B., Yadav R., Vallon L., Marmesse R., Fraissinet-Tachet L., Sudhakara Reddy M.	Thakur, B., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Yadav, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Vallon, L., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Marmesse, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Fraissinet-Tachet, L., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Science of the Total Environment	2019	489697
1793	Dielectric and energy storage behavior of CaCu ₃ Ti ₄ O ₁₂ nanoparticles for capacitor application	Kaur S., Kumar A., Sharma A.L., Singh D.P.	Kaur, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar, A., CSIR-National Physical Laboratory New Delhi 110012, India; Sharma, A.L., Thin Film Group, CSIR-CSIO, Chandigarh, 160030, India; Singh, D.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Ceramics International	2019	2728842
1794	Linearized sigmoidal activation: A novel activation function with tractable non-linear characteristics to boost representation capability	Bawa V.S., Kumar V.	Bawa, V.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Expert Systems with Applications	2019	9574174
1795	Comprehensive review for energy efficient hierarchical routing protocols on wireless sensor networks	Guleria K., Verma A.K.	Guleria, K., Department of Computer Science & Engineering, Thapar University, Patiala, India; Verma, A.K., Department of Computer Science & Engineering, Thapar University, Patiala, India	Wireless Networks	2019	10220038
1796	Plants Disease Identification and Classification Through Leaf Images: A Survey	Kaur S., Pandey S., Goel S.	Kaur, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goel, S., Bennett University, Greater Noida, U.P, India	Archives of Computational Methods in Engineering	2019	11343060
1797	Air quality assessment of Mandi Gobindgarh city of Punjab, India	Gupta A., Dhir A.	Gupta, A., Department of Environmental Science and Engineering, Marwadi University, Rajkot, 360001, India; Dhir, A., School of Energy and Environment, Thapar University, Patiala, Punjab 147004, India	Environment, Development and Sustainability	2019	1387585X
1798	Strength, permeation and micro-structural characteristics of concrete incorporating waste marble	Vardhan K., Siddique R., Goyal S.	Vardhan, K., Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2019	9500618
1799	Authorship identification using recurrent neural networks	Gupta S.T.P., Sahoo J.K., Roul R.K.	Gupta, S.T.P., Department of Computer Science, BITS Pilani Goa, Campus Goa, India; Sahoo, J.K., Department of Mathematics, BITS Pilani Goa Campus, Goa, India; Roul, R.K., Department of Computer Science, Thapar Institute of Technology, Punjab, India	ACM International Conference Proceeding Series	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1800	Improved possibility degree method for ranking intuitionistic fuzzy numbers and their application in multiattribute decision-making	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Granular Computing	2019	23644966
1801	Auction-based power allocation for downlink non-orthogonal multiple access systems	Lamba A.K., Kumar R., Sharma S.	Lamba, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Electronics Letters	2019	135194
1802	A Note on "Approaches to Interval Intuitionistic Trapezoidal Fuzzy Multiple Attribute Decision Making with Incomplete Weight Information"	Kaur A., Kumar A., Appadoo S.S.	Kaur, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Winnipeg, MB, Canada	International Journal of Fuzzy Systems	2019	15622479
1803	On processing and flexural behaviour of functionally graded clads developed through microwave irradiation	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutes, Ludhiana, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Materials Research Express	2019	20531591
1804	The wear behavior of Al/(Al ₂ O ₃ + SiC + C) hybrid composites fabricated stir casting assisted squeeze	Kalra C.S., Kumar V., Manna A.	Kalra, C.S., Mechanical Engineering Department, Research Scholar, Thapar University, Patiala, Punjab, India, Mechanical Engineering, SUSCET, Mohali, Punjab, India; Kumar, V., Mechanical Engineering, Thapar University, Patiala, Punjab, India; Manna, A., Mechanical Engineering, PEC University of Technology, Chandigarh, India	Particulate Science and Technology	2019	2726351
1805	CFD modeling of erosion wear in pipe bend for the flow of bottom ash suspension	Singh J., Kumar S., Singh J.P., Kumar P., Mohapatra S.K.	Singh, J., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, S., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Singh, J.P., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Kumar, P., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar University, Patiala, Punjab, India	Particulate Science and Technology	2019	2726351
1806	L1-CONVERGENCE OF XHEVAT MODIFIED SUMS IN TWO DIMENSIONS	Chouhan S.K., Kaur J., Bhatia S.S.	Chouhan, S.K., School of Mathematics, Thapar Institute of engineering and technology, Patiala, Punjab, Patiala, 147001, India; Kaur, J., School of Mathematics, Thapar Institute of engineering and technology, Patiala, Punjab, Patiala, 147001, India; Bhatia, S.S., School of Mathematics, Thapar Institute of engineering and technology, Patiala, Punjab, Patiala, 147001, India	South East Asian Journal of Mathematics and Mathematical Sciences	2019	9727752
1807	Quantification of potential benefits to punjab's DS consumers from on-grid type solar systems	Garg R.	Garg, R., Thapar Institute of Engineering and technology (TIET), Patiala, India	International Journal of Engineering and Advanced Technology	2019	22498958
1808	An Energy-driven Network Function Virtualization for Multi-domain Software Defined Networks	Kaur K., Garg S., Kaddoum G., Gagnon F., Kumar N., Ahmed S.H.	Kaur, K., École de Technologie Supérieure, Montréal, QC H3C 1K3, Canada; Garg, S., École de Technologie Supérieure, Montréal, QC H3C 1K3, Canada; Kaddoum, G., École de Technologie Supérieure, Montréal, QC H3C 1K3, Canada; Gagnon, F., École de Technologie Supérieure, Montréal, QC H3C 1K3, Canada; Kumar, N., CSED, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Ahmed, S.H., Georgia Southern University, Statesboro, GA 30460, United States	INFOCOM 2019 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPs 2019	2019	
1809	Comparison of the Virtual Synchronous Generator and Droop Control Techniques to Cater the Unexpected Ingress and Egress of EVs at the CS	Dhingra K., Singh M.	Dhingra, K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	
1810	A Survey Study of Different RF Energy Sources for RF Energy Harvesting	Sidhu R.K., Singh Ubhi J., Aggarwal A.	Sidhu, R.K., ECE Department, SLIET Longowal, Sangrur, India; Singh Ubhi, J., ECE Department, SLIET Longowal, Sangrur, India; Aggarwal, A., ECE Department, TIET Patiala, Patiala, India	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	
1811	Dual Band Rejected Low Profile Planar Monopole Antenna for UWB Application	Singh G., Singh U.	Singh, G., Department of ECE, Thapar Institute of Engineering and Technology Deemed to be University, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering and Technology Deemed to be University, Patiala, India	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	
1812	Improving the Adaptive Properties of LSHADE Algorithm for Global Optimization	Salgotra R., Singh U., Singh G.	Salgotra, R., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, U., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, G., Dept. of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	

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1813	Development of a miniaturized CPW-fed rectangular microstrip patch antenna with l and s shaped strips for WLAN, WiMAX and IMT applications	Chopra A., Kaur J.	Chopra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Engineering and Advanced Technology	2019	22498958
1814	Hydrogen production and subsequent adsorption/desorption process within a modified unitized regenerative fuel cell	Kapoor D., Oberoi A.S., Nijhawan P.	Kapoor, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, 147004, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, 147004, India	Processes	2019	22279717
1815	Supervised machine-learning predictive analytics for national quality of life scoring	Kaur M., Dhalaria M., Sharma P.K., Park J.H.	Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Dhalaria, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Sharma, P.K., Department of Computer Science and Engineering, Seoul National University of Science and Technology (SeoulTech), Seoul, 01811, South Korea; Park, J.H., Department of Computer Science and Engineering, Seoul National University of Science and Technology (SeoulTech), Seoul, 01811, South Korea	Applied Sciences (Switzerland)	2019	20763417
1816	Fixed points of α - ξ -expansive mappings	Manro S., Salimi P.	Manro, S., School of Mathematics and Computer Applications, Thapar University, Patiala, Punjab, India; Salimi, P., Young Researchers and Elite Club, Rasht Branch Islamic Azad University, Rasht, Iran	Thai Journal of Mathematics	2019	16860209
1817	Numerical approximation for nonlinear noisy leaky integrate-and-fire neuronal model	Sharma D., Singh P., Agarwal R.P., Koksai M.E.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Agarwal, R.P., Department of Mathematics, Texas A and M University-Kingsville, Kingsville, TX 78363, United States; Koksai, M.E., Department of Mathematics, Ondokuz Mayıs University, Atakum, Samsun, 55139, Turkey	Mathematics	2019	22277390
1818	Modified optimal class of Newton-like fourth-order methods for multiple roots	Kansal M., Behl R., Mahnashi M.A., Mallawi F.O.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Behl, R., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Mahnashi, M.A., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Mallawi, F.O., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia	Symmetry	2019	20738994
1819	Effect of despeckle filtering on classification of breast tumors using ultrasound images	Kriti, Virmani J., Agarwal R.	Kriti, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Virmani, J., CSIR – Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biocybernetics and Biomedical Engineering	2019	2085216
1820	SH-BlockCC: A secure and efficient Internet of things smart home architecture based on cloud computing and blockchain technology	Singh S., Ra I.-H., Meng W., Kaur M., Cho G.H.	Singh, S., Division of Computer Science and Engineering, Chonbuk National University, Jeonju, South Korea; Ra, I.-H., School of Computer, Information and Communication Engineering, Kunsan National University, Gunsan, South Korea; Meng, W., Department of Applied Mathematics and Computer Science, Technical University of Denmark, Lyngby, Denmark; Kaur, M., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Cho, G.H., Division of Computer Science and Engineering, Chonbuk National University, Jeonju, South Korea	International Journal of Distributed Sensor Networks	2019	15501329
1821	Development of rare-earth oxides based hybrid AMCs reinforced with SiC/Al ₂ O ₃ : Mechanical & metallurgical characterization	Sharma V.K., Kumar V.	Sharma, V.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Materials Research and Technology	2019	22387854
1822	Conserved peptide vaccine candidates containing multiple Ebola nucleoprotein epitopes display interactions with diverse HLA molecules	Jain S., Baranwal M.	Jain, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Medical Microbiology and Immunology	2019	3008584
1823	A novel magnetorheological gear profile finishing with high shape accuracy	Yadav R.D., Singh A.K.	Yadav, R.D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Machine Tools and Manufacture	2019	8906955
1824	FEM simulation analysis of fiber optic surface plasmon resonance sensor based on array of circular gold nanorod	Singh S., Kaler R.S., Sharma S.	Singh, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, S., Department of Bio-Technology, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Optik	2019	304026
1825	Dispersion analysis and improved F-expansion method for space-time fractional differential equations	Kaur B., Gupta R.K.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, R.K., Department of Mathematics and Statistics, Central University of Punjab, Bathinda, Punjab 151001, India, Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana 123031, India	Nonlinear Dynamics	2019	0924090X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1826	Hydrogen enrichment of biogas via dry and autothermal-dry reforming with pure nickel (Ni) nanoparticle	Rosha P., Mohapatra S.K., Mahla S.K., Dhir A.	Rosha, P., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, Punjab 144603, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala147004, India	Energy	2019	3605442
1827	Multi-objective combined heat and power unit commitment using particle swarm optimization	Anand H., Narang N., Dhillon J.S.	Anand, H., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, SantLongowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab 148106, India	Energy	2019	3605442
1828	Self-focusing of q-Gaussian laser beam in relativistic plasma under the effect of light absorption	Kashyap R., Aggarwal M., Gill T.S., Arora N.S., Kumar H., Moudhgill D.	Kashyap, R., Research Scholar, Inder Kumar Gujral Punjab Technical University, Kapurthala, Punjab 144601, India; Aggarwal, M., Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, Punjab 144001, India; Gill, T.S., Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Arora, N.S., Amritsar College of Engineering and Technology, Amritsar, Punjab 143001, India; Kumar, H., Research Scholar, Inder Kumar Gujral Punjab Technical University, Kapurthala, Punjab 144601, India; Moudhgill, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Optik	2019	304026
1829	Wear Resistance Improvement of Austenitic 316 L Steel by Microwave-Processed Composite Clads	Kaushal S., Singh D., Gupta D., Jain V.	Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutes, Ludhiana, 141401, India; Singh, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Tribology	2019	7424787
1830	Mapping the H2 resistance effective against Globodera pallida pathotype Pa1 in tetraploid potato	Strachan S.M., Armstrong M.R., Kaur A., Wright K.M., Lim T.Y., Baker K., Jones J., Bryan G., Blok V., Hein I.	Strachan, S.M., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, School of Biology, University of St Andrews, North Haugh, St Andrews, KY16 9ST, United Kingdom; Armstrong, M.R., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, School of Life Sciences, Division of Plant Sciences at the JHI, University of Dundee, Dundee, DD2 5DA, United Kingdom; Kaur, A., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Wright, K.M., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom; Lim, T.Y., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, Columbia University, New York, NY 10027, United States; Baker, K., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, Synpromics, Edinburgh, EH25 9RG, United Kingdom; Jones, J., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, School of Biology, University of St Andrews, North Haugh, St Andrews, KY16 9ST, United Kingdom; Bryan, G., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, Scotland's Rural College (SRUC), Kings Buildings, West Mains Road, Edinburgh, EH9 3JG, United Kingdom; Blok, V., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom; Hein, I., The James Hutton Institute, CMS, Errol Road, Dundee, DD2 5DA, United Kingdom, School of Life Sciences, Division of Plant Sciences at the JHI, University of Dundee, Dundee, DD2 5DA, United Kingdom	Theoretical and Applied Genetics	2019	405752
1831	Study on corrosion investigations in industrial effluents: A review	Ram C., Zaman B., Dhir A.	Ram, C., Department of Chemical Engineering, Adigrat University, Adigrat, ET 7040, Ethiopia; Zaman, B., College of Engineering, Utah State University, Logan, United States; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, IN 147004, India	Corrosion Reviews	2019	3346005
1832	Enhanced thermal resistance of rammed earth blocks with recycled industry by-products	Jain D., Mukherjee A., Porter H., Blake J.	Jain, D., Mechanical Engineering Department, Thapar University, Patiala, 147004, India, Department of Biomedical Engineering and Mechanics, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States; Mukherjee, A., Department of Civil Engineering, Curtin University, Bentley, WA 6102, Australia; Porter, H., Department of Civil Engineering, Curtin University, Bentley, WA 6102, Australia; Blake, J., Department of Civil Engineering, Curtin University, Bentley, WA 6102, Australia	International Journal of Thermal Sciences	2019	12900729
1833	An application of phonocardiography signals for psychological stress detection using non-linear entropy based features in empirical mode decomposition domain	Cheema A., Singh M.	Cheema, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Applied Soft Computing Journal	2019	15684946
1834	A new approach for effective retrieval and indexing of medical images	Aggarwal A., Sharma S., Singh K., Singh H., Kumar S.	Aggarwal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Department of Computer Engineering, Marwadi University, Rajkot, India; Singh, K., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singh, H., Department of Computer Science and Engineering, DAV University, Jalandhar, India; Kumar, S., Directorate of Livestock Farms, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana, India	Biomedical Signal Processing and Control	2019	17468094

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1835	Investigations on weld metal chemistry and mechanical behaviour of bimetallic welds using CaO-CaF ₂ -SiO ₂ -Ni based electrode coatings	Bhandari D., Chhibber R., Arora N., Mehta R.	Bhandari, D., Mechanical Engineering Section, Yadavindra College of Engineering, Talwandi Sabo, Punjab, India; Chhibber, R., Department of Mechanical Engineering, Indian Institute of Technology Jodhpur, Jodhpur, Rajasthan, India; Arora, N., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India; Mehta, R., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2019	14644207
1836	Fuzzy-Folded Bloom Filter-as-a-Service for Big Data Storage in the Cloud	Singh A., Garg S., Kaur K., Batra S., Kumar N., Choo K.-K.R.	Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Garg, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Kaur, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249-0631, United States	IEEE Transactions on Industrial Informatics	2019	15513203
1837	Design and analysis of secure lightweight remote user authentication and key agreement scheme in internet of drones deployment	Wazid M., Das A.K., Kumar N., Vasilakos A.V., Rodrigues J.J.P.C.	Wazid, M., Cyber Security and Networks Laboratory, Innopolis University, Innopolis, 420500, Russian Federation; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology Hyderabad, Hyderabad, 500 032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Vasilakos, A.V., Department of Computer Science, Electrical and Space Engineering, Luleå University of Technology, Luleå, 971 87, Sweden; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa-Rita do Sapucaí, 37540-000, Brazil, Covilhã Delegation, Instituto de Telecomunicações, Lisbon, 1049-001, Portugal, PPGIA, University of Fortaleza, Fortaleza, 60811-905, Brazil	IEEE Internet of Things Journal	2019	23274662
1838	Deep Learning Based Sentiment Analysis Using Convolution Neural Network	Rani S., Kumar P.	Rani, S., CSED, Thapar University, Patiala, India; Kumar, P., CSED, Thapar University, Patiala, India	Arabian Journal for Science and Engineering	2019	2193567X
1839	An experimental investigation of heterogeneous injection of biopolymer (guar gum) on the flow patterns and drag reduction percentage for two phase (water-oil mixture) flow	Sokhal K.S., Gangacharyulu D., Bulasara V.K.	Sokhal, K.S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, C.V. Raman College of Engineering, Bhubaneswar, Odisha 752054, India	Experimental Thermal and Fluid Science	2019	8941777
1840	Cadmium and arsenic responses in the ectomycorrhizal fungus Laccaria bicolor: glutathione metabolism and its role in metal(loid) homeostasis	Khullar S., Sudhakara Reddy M.	Khullar, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Environmental Microbiology Reports	2019	17582229
1841	Investigation on the structural, multiferroic and magnetoelectric properties of BaTi1-xNixO3 ceramics	Rani A., Kolte J., Gopalan P.	Rani, A., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gopalan, P., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, India	Ceramics International	2019	2728842
1842	Fog computing: from architecture to edge computing and big data processing	Singh S.P., Nayyar A., Kumar R., Sharma A.	Singh, S.P., Thapar Institute of Engineering and Technology, Patiala, India; Nayyar, A., Duy Tan University, Da Nang, Viet Nam; Kumar, R., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., MRSPTU, Bathinda, India	Journal of Supercomputing	2019	9208542
1843	A hybrid GSA-GA algorithm for constrained optimization problems	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala, Punjab, 147004, India	Information Sciences	2019	200255
1844	Development and characterization of microwave processed cast iron joint	Singh S., Singh P., Gupta D., Jain V., Kumar R., Kaushal S.	Singh, S., Department of Mechanical Engineering, The NorthCap University, Gurugram, Haryana 122017, India; Singh, P., Department of Mechanical Engineering, The NorthCap University, Gurugram, Haryana 122017, India; Gupta, D., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Jain, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Kumar, R., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Kaushal, S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India	Engineering Science and Technology, an International Journal	2019	22150986
1845	5-Na/ZnO doped mesoporous silica as reusable solid catalyst for biodiesel production via transesterification of virgin cottonseed oil	Malhotra R., Ali A.	Malhotra, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Renewable Energy	2019	9601481

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1846	The university's role in sustainable development: Activating entrepreneurial scholars as agents of change	Wakkee I., van der Sijde P., Vaupell C., Ghuman K.	Wakkee, I., Hogeschool van Amsterdam (Amsterdam University of Applied Sciences), Netherlands; van der Sijde, P., Science Business & Innovation, Faculty of Sciences, Vrije Universiteit Amsterdam, Netherlands; Vaupell, C., Organization Sciences, Faculty of Social Sciences, Vrije Universiteit, Netherlands; Ghuman, K., LM Thapar School of Management, District Mohali, Dera Bassi, Punjab, India	Technological Forecasting and Social Change	2019	401625
1847	Hesitant Pythagorean fuzzy Maclaurin symmetric mean operators and its applications to multiattribute decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	International Journal of Intelligent Systems	2019	8848173
1848	FTIR and rheological studies of PMMA-based nano-dispersed gel polymer electrolytes incorporated with LiBF ₄ and SiO ₂	Singh S., Arora N., Paul K., Kumar R., Kumar R.	Singh, S., P.G. Department of Physics, D.A.V. College, Amritsar, 143 001, India; Arora, N., P.G. Department of Physics, D.A.V. College, Amritsar, 143 001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kumar, R., Department of Physics, G.G.D.S.D. College, Haryana, Hoshiarpur 144 208, India; Kumar, R., P.G. Department of Physics, D.A.V. College, Amritsar, 143 001, India	Ionics	2019	9477047
1849	Applicability of fractional transforms in image processing - review, technical challenges and future trends	Jindal N., Singh K.	Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2019	13807501
1850	Simulation of intelligent target hitting in obstructed path using physical body animation and genetic algorithm	Shivani S., Tiwari S.	Shivani, S., Trinity College Dublin, Dublin, Ireland, Thapar Institute of Engineering and Technology, Patiala, India; Tiwari, S., Trinity College Dublin, Dublin, Ireland, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2019	13807501
1851	Effect of CaO/MgO ratio on the optical and theoretical parameters of alumino-borosilicate glasses	Kaur M., Kaur G., Pandey O.P., Kumar V.	Kaur, M., Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, India, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, India; Kumar, V., Sri Guru Granth Sahib World University, Fatehgarh Sahib, India	International Journal of Applied Glass Science	2019	20411286
1852	Processing of Ni–WC–Cr 3 C 2 -based metal matrix composite cladding on SS-316L substrate through microwave irradiation	Kaushal S., Singh D., Gupta D., Jain V.	Kaushal, S., Mechanical Engineering Department, Thapar University, India; Singh, D., Mechanical Engineering Department, Thapar University, India; Gupta, D., Mechanical Engineering Department, Thapar University, India; Jain, V., Mechanical Engineering Department, Thapar University, India	Journal of Composite Materials	2019	219983
1853	Impact of reducing and capping agents on carbohydrates for the growth of Ag and Cu nanostructures and their antibacterial activities	Rather R.A., Sarwara R.K., Das N., Pal B.	Rather, R.A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Sarwara, R.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India	Particuology	2019	16742001
1854	Multiple slip effects on magnetic-Carreau fluid in a suspension of gyrotactic microorganisms over a slendering sheet	Raju C.S.K., Hoque M.M., Khan N.A., Islam M., Kumar S.	Raju, C.S.K., Department of Mathematics, GITAM School of Technology, Bangalore, Karnataka, India; Hoque, M.M., Discipline of Chemical Engineering, University of Newcastle, Callaghan, Australia; Khan, N.A., Department of Mathematics, University of Karachi, Karachi, Pakistan; Islam, M., Department of Mathematics, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India; Kumar, S., Department of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2019	9544089
1855	Biodiesel production from waste cooking oil using heterogeneous catalysts and its operational characteristics on variable compression ratio CI engine	Kataria J., Mohapatra S.K., Kundu K.	Kataria, J., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147004, India; Kundu, K., Department of Bio Fuel, Centre of Excellence for Farm Machinery, Ludhiana, Punjab 141006, India	Journal of the Energy Institute	2019	17439671
1856	Silver-based polymeric nanocomposites as antimicrobial coatings for biomedical applications	Dhiman N.K., Agnihotri S., Shukla R.	Dhiman, N.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, TIFAC-CORE in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Shukla, R., Nanobiotechnology Research Laboratory and Centre for Advanced Materials and Industrial Chemistry, School of Science, RMIT University, Melbourne, VIC, Australia	Nanotechnology in Modern Animal Biotechnology: Recent Trends and Future Perspectives	2019	
1857	Mechanisms for enhanced impact strength of epoxy based nanocomposites reinforced with silicate platelets	Nanda T., Sharma G., Mehta R., Shelly D., Singh K.	Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Materials Research Express	2019	20531591

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1858	Simulation and experimental PD study of laboratory test setup	Singla M.K., Gupta J., Basek P., Jain S.K., Paramane A.	Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basek, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Paramane, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1859	Simulation of single and multistage impulse voltage generator using matlab simulink	Mehta S., Basak P., Anelis K., Paramane A.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Anelis, K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Paramane, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1860	An enhanced approach to improve UIQI and PSNR of noised colored images using DWT Filter	Lakhwani K., Gianey H.K., Gupta S., Bhargav Y., Bapna R.K.	Lakhwani, K., Computer Science, Lovely Professional University, Phagwara, India; Gianey, H.K., Computer Science, Thapar Institute of Engineering Technology, Patiala, India; Gupta, S., Information Technology, Jaipur Engineering College Research Centre, Jaipur, India; Bhargav, Y., Information Technology, Jaipur Engineering College Research Centre, Jaipur, India; Bapna, R.K., Information Technology, Jaipur Engineering College Research Centre, Jaipur, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1861	Comparative study of active SFCL and resistive type SFCL on a nine bus system	Kumari S., Sinha A.	Kumari, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sinha, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1862	Effect of applied voltage and electromagnetic shielding on partial discharge	Garg A., Tiwary A., Basak P., Paramane A.	Garg, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Tiwary, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Paramane, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1863	A robust and secure hybrid reversible data embedding algorithm	Arora D., Verma A.K.	Arora, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1864	RCDR: Reliability control framework for data rate prediction in wireless sensor networks	Sandhu J.K., Kumar Verma A., Rana P.S.	Sandhu, J.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar Verma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1865	Stability analysis of third-order parametric uncertain nonlinear system	Saxena S., Garg A., Hote Y.V.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Garg, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Hote, Y.V., Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	
1866	Aromatic amines equilibrium sorptive interaction with synthesized silica based mesoporous MCM-41: Physicochemical evaluation and isotherm modeling	Toor S.K., Kushwaha J.P., Sangal V.K.	Toor, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering	2019	10934529
1867	Computational analysis in designing T cell epitopes enriched peptides of Ebola glycoprotein exhibiting strong binding interaction with HLA molecules	Jain S., Baranwal M.	Jain, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Theoretical Biology	2019	225193
1868	Neurosurgical bone grinding	Babbar A., Jain V., Gupta D.	Babbar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Biomanufacturing	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1869	Approach to synthesis of fault tolerant reduced device count multilevel inverters (FT RDC MLIs)	Dewangan N.K., Gupta S., Gupta K.K.	Dewangan, N.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Gupta, S., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IET Power Electronics	2019	17554535
1870	Assessing the effect of GGBS content and aggregate characteristics on drying shrinkage of roller compacted concrete	Saluja S., Kaur K., Goyal S., Bhattacharjee B.	Saluja, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kaur, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Bhattacharjee, B., Department of Civil Engineering, Indian Institute of Technology, HauzKhas, New Delhi 110 016, India	Construction and Building Materials	2019	9500618
1871	In-situ dual effect of novel Fe-TiO2 composite for the degradation of phenazone	Talwar S., Sangal V.K., Verma A.K.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Separation and Purification Technology	2019	13835866
1872	Exploitation of fungal endophytes as bio-factories for production of functional metabolites through metabolic engineering; emphasizing on taxol production	Garyali S., Tandon P., Reddy M.S., Wang Y.	Garyali, S., Key Laboratory of Synthetic Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China; Tandon, P., School of Environmental Science and Engineering, Shanghai Jiao Tong University, Shanghai, China; Reddy, M.S., Department of Biotechnology, Thapar University, Patiala, 147004, India; Wang, Y., Key Laboratory of Synthetic Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China	High Value Fermentation Products, Volume 1: Human Health	2019	
1873	Eliminating secondary phases: Understanding kesterite phase evolution of Cu2ZnSnS4 thin films grown from ethanol based solutions with high photosensitivity	Gupta I., Mohanty B.C.	Gupta, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Solar Energy	2019	0038092X
1874	Basil leaves disease classification and identification by incorporating survival of fittest approach	Dhingra G., Kumar V., Joshi H.D.	Dhingra, G., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Joshi, H.D., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Chemometrics and Intelligent Laboratory Systems	2019	1697439
1875	Synthesis of 5-(4-(1H-phenanthro[9,10-d]imidazol-2-yl)benzylidene)thiazolidine-2,4-dione as promising DNA and serum albumin-binding agents and evaluation of antitumor activity	Singh I., Rani R., Luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147 001, India; Rani, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147 001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147 001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147 001, India	European Journal of Medicinal Chemistry	2019	2235234
1876	Quantum ω -Automata over Infinite Words and Their Relationships	Bhatia A.S., Kumar A.	Bhatia, A.S., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Theoretical Physics	2019	207748
1877	A Comparative Study of Gas Sensing Properties of Tungsten Oxide, Tin Oxide and Tin-Doped Tungsten Oxide Thin Films for Acetone Gas Detection	Sachdeva S., Agarwal A., Agarwal R.	Sachdeva, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India, CSIR – Central Electronics Engineering Research Institute, Pilani, 333031, India; Agarwal, A., CSIR – Central Electronics Engineering Research Institute, Pilani, 333031, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Journal of Electronic Materials	2019	3615235
1878	Effect of Ni substitution on the structural and optical properties of SrZr _{1-x} Ni _x O ₃ (0.05 ≤ x ≤ 0.20) perovskites	Kaur P., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Molecular Structure	2019	222860
1879	Influence of carbon content of nano-TaC powders on the electrocatalytic and photocatalytic properties	Brar L.K., Gupta A., Pandey O.P.	Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Catalysis Today	2019	9205861
1880	Multi-objective optimisation of electrical discharge machining for Inconel 825 using Taguchi-fuzzy approach	Payal H., Maheshwari S., Bharti P.S., Sharma S.K.	Payal, H., Division of Manufacturing Processes and Automation Engineering, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Maheshwari, S., Division of Manufacturing Processes and Automation Engineering, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Bharti, P.S., U.S.I.C.T, Guru Gobind Singh Indraprastha University, New Delhi, 110078, India; Sharma, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Information Technology (Singapore)	2019	25112104

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1881	Some Generalized Complex Intuitionistic Fuzzy Aggregation Operators and Their Application to Multicriteria Decision-Making Process	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2019	2193567X
1882	Synthesis of Linear Antenna Arrays Using Enhanced Firefly Algorithm	Singh U., Salgotra R.	Singh, U., Department of ECE, Thapar University, Patiala, Punjab, India; Salgotra, R., Department of ECE, Thapar University, Patiala, Punjab, India	Arabian Journal for Science and Engineering	2019	2193567X
1883	Correction to: Some Aggregation Operators for Linguistic Intuitionistic Fuzzy Set and its Application to Group Decision-Making Process Using the Set Pair Analysis (Arabian Journal for Science and Engineering, (2018), 43, 6, (3213-3227), 10.1007/s13369-017-2986-0)	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2019	2193567X
1884	Generalized Cubic Intuitionistic Fuzzy Aggregation Operators Using t-Norm Operations and Their Applications to Group Decision-Making Process	Kaur G., Garg H.	Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2019	2193567X
1885	Single and Binary Adsorption of Zn (II) and Cr (VI) Heavy Metals onto Synthesized Silica -Based MCM-41	Toor S.K., Kushwaha J.P., Sangal V.K.	Toor, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, 147004, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, 147004, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, 147004, India, Department of Chemical Engineering, Malviya National Institute of Technology, Jaipur, Rajasthan, 302017, India	ChemistrySelect	2019	23656549
1886	Spectral graph wavelet optimized finite difference method for solution of Burger's equation with different boundary conditions	Sharma D., Goyal K.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Difference Equations and Applications	2019	10236198
1887	Static and DC dynamic pull-in analysis of curled microcantilevers with a compliant support	Sharma A.K., Godara R.K., Joglekar M.M.	Sharma, A.K., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee, 247 667, India; Godara, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Joglekar, M.M., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee, 247 667, India	Microsystem Technologies	2019	9467076
1888	Frequency control of islanded microgrid using fuzzy-PI and autotuned controllers	Kaushal J., Basak P.	Kaushal, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, India	International Journal of Advances in Applied Sciences	2019	22528814
1889	Forward Clearing of Energy Market for Wind Incorporated Power System	Sharma A., Jain S.K.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala Punjab, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala Punjab, India	8th International Conference on Computation of Power, Energy, Information and Communication, ICCPEIC 2019	2019	
1890	PAPR and spectrum analysis of 4G and 5G techniques	Kaur R., Singh A.	Kaur, R., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, Punjab, India; Singh, A., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, Punjab, India	2019 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2019	2019	
1891	Miniaturized Dual-Band Branch-line Coupler with Folded Stubs	Singh S., Yadav R.P., Jain A.	Singh, S., Thapar Institute of Engineering and Technology, ECE Department, Patiala, Punjab, India; Yadav, R.P., Thapar Institute of Engineering and Technology, ECE Department, Patiala, Punjab, India; Jain, A., Thapar Institute of Engineering and Technology, ECE Department, Patiala, Punjab, India	2019 IEEE 5th International Conference for Convergence in Technology, I2CT 2019	2019	
1892	Strip-line Based Isolator at UHF Band	Kaur M., Yadav R.P., Jain A.	Kaur, M., Thapar Institute of Engineering and Technology, Ece Department, Patiala, Punjab, India; Yadav, R.P., Thapar Institute of Engineering and Technology, Ece Department, Patiala, Punjab, India; Jain, A., Thapar Institute of Engineering and Technology, Ece Department, Patiala, Punjab, India	2019 IEEE 5th International Conference for Convergence in Technology, I2CT 2019	2019	
1893	Performance comparison of scheduled TAS/GSC with STBC/GSC in underlay cognitive radios	Bindra K., Khanna R., Sharma S., Sood V.V.	Bindra, K., Tiet, Eced, Patiala, India; Khanna, R., Tiet, Eced, Patiala, India; Sharma, S., Tiet, Eced, Patiala, India; Sood, V.V., Tiet, Eced, Patiala, India	Proceedings of the 2019 6th International Conference on Computing for Sustainable Global Development, INDIACom 2019	2019	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1894	Speaker's Voice Characteristics and Similarity Measurement using Euclidean Distances	Singh M.K., Singh N., Singh A.K.	Singh, M.K., Jaypee University of Engg. Tech., Department of ECE, Guna, M.P., India; Singh, N., Jaypee University of Engg. Tech., Department of ECE, Guna, M.P., India; Singh, A.K., Thapar University, Department of ECE, Patiala, Punjab, India	2019 International Conference on Signal Processing and Communication, ICSC 2019	2019	
1895	Despeckle and Segmentation of Carotid Artery for Measurement of Intima-media Thickness	Gupta R., Pachauri R., Singh A.K.	Gupta, R., Jaypee University of Engineering and Technology, Department of Electronics and Communication, Raghogarh, Guna, M.P., India; Pachauri, R., Jaypee University of Engineering and Technology, Department of Electronics and Communication, Raghogarh, Guna, M.P., India; Singh, A.K., Thapar Institute of Engineering and Technology University, Department of Electronics and Communication, Patiala, India	2019 International Conference on Signal Processing and Communication, ICSC 2019	2019	
1896	Rheological Characteristics of Uni/Bi-Variant Particulate Iron Ore Slurry: Artificial Neural Network Approach	Kumar S., Singh M., Singh J., Singh J.P., Kumar S.	Kumar, S., Mechanical Engineering Department, T.I.E.T, Patiala, 147004, India; Singh, M., Mechanical Engineering Department, T.I.E.T, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, T.I.E.T, Patiala, 147004, India; Singh, J.P., School of Mechanical Engineering, Lovely Professional University, Jalandhar, 144411, India; Kumar, S., Department of Mechanical Engineering, N.I.T, Jamshedpur, 831014, India	Journal of Mining Science	2019	10627391
1897	Probability Density Function of Weibull-Gamma Fading under Dual Selection Combining Scheme	Gupta A., Singh S.P., Kansal A.	Gupta, A., Dept. of ECE T.I.E.T, Patiala, India; Singh, S.P., Dept. of ECE T.I.E.T, Patiala, India; Kansal, A., Dept. of ECE T.I.E.T, Patiala, India	Proceedings - International Conference on Vision Towards Emerging Trends in Communication and Networking, VITeCoN 2019	2019	
1898	Comparative study on backpropagation and levenberg marquardt algorithm on short term load forecasting	Singla M.K., Gupta J., Nijhawan P.	Singla, M.K., Thapar Institute of Engineering and Technology Patiala, India; Gupta, J., Thapar Institute of Engineering and Technology Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1899	An innovative design of a solar-wind hybrid system	Nijhawan P., Oberoi A.S.	Nijhawan, P., EIED, TIET, Patiala, India; Oberoi, A.S., MED, TIET, Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1900	A review of custom power devices for power quality improvement of distribution network with arc furnace	Kumar R., Nijhawan P., Saxena S.	Kumar, R., TIET, Patiala, India; Nijhawan, P., TIET, Patiala, India; Saxena, S., TIET, Patiala, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1901	Identification in the delta domain: A unified approach using hybrid FAPS algorithm	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical Instrumentation Engineering, Thapar Institute of Engineering Technology, Patiala, India; Kaur, G., Department of Electrical Instrumentation Engineering, Thapar Institute of Engineering Technology, Patiala, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training Research, Kolkata, India	2019 5th International Conference on Advanced Computing and Communication Systems, ICACCS 2019	2019	
1902	Approach for efficiency enhancement of microwave ovens	Singhal A., Nijhawan P., Sinha A., Rai K.	Singhal, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sinha, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, K., LG Electronics India Pvt Ltd, Greater Noida, Uttar Pradesh 201306, India	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
1903	Fungal endophytes as repository of xanthine oxidase inhibitor	Kapoor N., Saxena S., Gambhir L.	Kapoor, N., Department of Microbiology, Uttaranchal (PG) College of Biomedical Sciences and Hospital, Dehradun, Uttarakhand 248 001, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 1470 04, India; Gambhir, L., Department of Life Sciences, Shri Guru Ram Rai University, Dehradun, Uttarakhand 248 121, India	Indian Drugs	2019	0019462X
1904	Strength properties of roller compacted concrete containing GGBS as partial replacement of cement	Saluja S., Goyal S., Bhattacharjee B.	Saluja, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhattacharjee, B., Department of Civil Engineering, Indian Institute of Technology, HauzKhas, New Delhi, 110016, India	Journal of Engineering Research	2019	23071885
1905	Efficient layer-wise feature incremental approach for content-based image retrieval system	Chauhan S.S., Batra S.	Chauhan, S.S., Thapar Institute of Engineering and Technology, Doctoral Research Lab-II, Department of Computer Science and Engineering, Patiala, India; Batra, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	Journal of Electronic Imaging	2019	10179909
1906	Frequency scaling based low power ORIYA UNICODE READER (OUR) design ON 40nm and 28nm FPGA	Kaur A., Kumar K., Sandhu A., Kaur A., Jain A., Pandey B.	Kaur, A., Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh, Punjab, India; Kumar, K., Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh, Punjab, India; Sandhu, A., Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh, Punjab, India; Kaur, A., Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh, Punjab, India; Jain, A., Thapar University Punjab, India; Pandey, B., Center of Energy Excellence, Gyancity Research Lab, Motihari, India	International Journal of Recent Technology and Engineering	2019	22773878

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1907	Various techniques used to diagnose psychogenic non-epileptic seizures (PNES): A brief overview	Singh P.K., Naveen, Singh T., Mishra V.N., Chaurasia R.N., Tiwari T.	Singh, P.K., Cognitive Science Laboratory, Department of Psychology, Banaras Hindu University, Varanasi, India; Naveen, School of Humanity and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Singh, T., Cognitive Science Laboratory, Department of Psychology, Banaras Hindu University, Varanasi, India; Mishra, V.N., Department of Neurology, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India; Chaurasia, R.N., Department of Neurology, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India; Tiwari, T., Cognitive Science Laboratory, Department of Psychology, Banaras Hindu University, Varanasi, India	Indian Journal of Public Health Research and Development	2019	9760245
1908	Nonlinear Kerr and intermodal four-wave mixing effect in mode-division multiplexed multimode fiber link	Gupta R., Kaler R.S.	Gupta, R., Thapar University, Department of Electronics and Communication Engineering, Patiala, Punjab, India; Kaler, R.S., Thapar University, Department of Electronics and Communication Engineering, Patiala, Punjab, India	Optical Engineering	2019	913286
1909	Edge Computing-Based Security Framework for Big Data Analytics in VANETs	Garg S., Singh A., Kaur K., Aujla G.S., Batra S., Kumar N., Obaidat M.S.	Garg, S., École de Technologie Supérieure, Université du Québec, Montréal, Canada; Singh, A., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Thapar University, Patiala, India; Kaur, K., École de Technologie Supérieure, Université du Québec, Montréal, Canada; Aujla, G.S., Chandigarh University, India; Batra, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Thapar University, Patiala, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Thapar University, Patiala, India; Obaidat, M.S., Nazarbayev University, University of Jordan, King Abdullah II School of Information Technology, Jordan, University of Science and Technology Beijing, China	IEEE Network	2019	8908044
1910	Effect of Irregularity on Torsional Surface Waves in an Initially Stressed Porous Layer Sandwiched Between Two Non-homogeneous Half-Spaces	Saha A., Kundu S., Gupta S., Vaishnav P.K.	Saha, A., Department of Mathematics, Rampurhat College, Rampurhat, 731224, India; Kundu, S., Department of Applied Mathematics, Indian Institute of Technology (ISM), Dhanbad, 826004, India; Gupta, S., Department of Applied Mathematics, Indian Institute of Technology (ISM), Dhanbad, 826004, India; Vaishnav, P.K., School of Mathematics, Thapar University Patiala, Patiala, 147004, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2019	3698203
1911	Ultrasonic degradation of ibuprofen from the aqueous solution in the presence of titanium dioxide nanoparticles/hydrogen peroxide	Ahmadpour N., Sayadi M.H., Verma A., Mansouri B.	Ahmadpour, N., Department of Environmental Sciences, School of Natural Resources and Environment, University of Birjand, Birjand, Iran; Sayadi, M.H., Department of Environmental Sciences, School of Natural Resources and Environment, University of Birjand, Birjand, Iran; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Mansouri, B., Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran	Desalination and Water Treatment	2019	19443994
1912	Convergence and Summability of Fourier Sine and Cosine Series with Its Applications	Chouhan S.K., Kaur J., Bhatia S.S.	Chouhan, S.K., Thapar University, Patiala, Punjab, India; Kaur, J., Thapar University, Patiala, Punjab, India; Bhatia, S.S., Thapar University, Patiala, Punjab, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2019	3698203
1913	Generalized Intuitionistic Fuzzy Entropy-Based Approach for Solving Multi-attribute Decision-Making Problems with Unknown Attribute Weights	Garg H.	Garg, H., School of Mathematics, Thapar University Patiala, Patiala, Punjab 147004, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2019	3698203
1914	Fast digital foreground gain error calibration for pipelined ADC	Kaur J., Prabhakar P., Singh A., Agarwal A.	Kaur, J., Bombardier Transportation India, Vadodra, Gujarat, India; Prabhakar, P., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Singh, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India	IET Circuits, Devices and Systems	2019	1751858X
1915	Hybrid deep-learning-based anomaly detection scheme for suspicious flow detection in SDN: A social multimedia perspective	Garg S., Kaur K., Kumar N., Rodrigues J.J.P.C.	Garg, S., Department of Electrical Engineering, École de technologie supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Kaur, K., Department of Electrical Engineering, École de technologie supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (deemed to be university), Patiala, 147003, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapuca37540-000, Brazil, Instituto de Telecomunicações, Aveiro, 3810-164, Portugal, University of Fortaleza (UNIFOR), Fortaleza, 60811-905, Brazil	IEEE Transactions on Multimedia	2019	15209210
1916	Performance assessment of a neuro-fuzzy load frequency controller in the presence of system non-linearities and renewable penetration	Jood P., Aggarwal S.K., Chopra V.	Jood, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aggarwal, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chopra, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Computers and Electrical Engineering	2019	457906

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1917	Synthesis, characterization, and bioactivity investigation of biomimetic biodegradable PLA scaffold fabricated by fused filament fabrication process	Singh D., Babbar A., Jain V., Gupta D., Saxena S., Dwibedi V.	Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	16785878
1918	Hiding clinical information in medical images: An encrypted dual-image reversible data hiding algorithm with base-3 numeral framework	Bhardwaj R., Aggarwal A.	Bhardwaj, R., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aggarwal, A., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Optik	2019	304026
1919	Investigation of optical, electrical and magnetic properties of Tb-doped ZnO nanorods	Aggarwal N., Vasishth A., Kaur K., Verma N.K.	Aggarwal, N., Department of Physics, Chandigarh University, Gharuan, Mohali, India; Vasishth, A., Department of Physics, Chandigarh University, Gharuan, Mohali, India; Kaur, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Verma, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Materials Science: Materials in Electronics	2019	9574522
1920	Potential use of waste foundry sand in dual process (photocatalysis and photo-Fenton) for the effective removal of phenazone from water: Slurry and fixed-bed approach	Bansal P., Verma A., Mehta C., Sangal V.K.	Bansal, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mehta, C., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sangal, V.K., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Environmental Management	2019	3014797
1921	Detecting bot-infected machines using DNS fingerprinting	Singh M., Singh M., Kaur S.	Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India, Department of Information Technology and Engineering, Baba Ghulam Shah Badshah University, Rajouri, J&K 185234, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Kaur, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	Digital Investigation	2019	17422876
1922	Interlining Cr(VI) remediation mechanism by a novel bacterium Pseudomonas brenneri isolated from coalmine wastewater	Banerjee S., Kamila B., Barman S., Joshi S.R., Mandal T., Halder G.	Banerjee, S., Department of Chemical Engg, National Institute of Technology DurgapurWest Bengal, India; Kamila, B., Department of Chemical Engg, Calcutta UniversityWest Bengal, India; Barman, S., Department of Chemical Engg, Thapar University, Patiala, Punjab, India; Joshi, S.R., Department of Biotechnology and Bioinformatics, North-Eastern Hill University, Shillong, India; Mandal, T., Department of Chemical Engg, National Institute of Technology DurgapurWest Bengal, India; Halder, G., Department of Chemical Engg, National Institute of Technology DurgapurWest Bengal, India	Journal of Environmental Management	2019	3014797
1923	Growth control of molybdenum thin films with simultaneously improved adhesion and conductivity via sputtering for thin film solar cell application	Bansal N., Pandey K., Singh K., Mohanty B.C.	Bansal, N., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Vacuum	2019	0042207X
1924	Psychological stress detection using phonocardiography signal: An empirical mode decomposition approach	Cheema A., Singh M.	Cheema, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Biomedical Signal Processing and Control	2019	17468094
1925	Correlation between Lüders band formation and precipitation kinetics behaviour during the industrial processing of interstitial free high strength steels	Singh G., Nanda T., Miadad S.J., Gorain N.C., Venugopalan T., Ravi Kumar B.	Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Miadad, S.J., Tata Motors Ltd., Jamshedpur, 831010, India; Gorain, N.C., Tata Steels Limited, Jamshedpur, 831001, India; Venugopalan, T., Tata Steels Limited, Jamshedpur, 831001, India; Ravi Kumar, B., CSIR-National Metallurgical Laboratory, Jamshedpur, 831007, India	Archives of Civil and Mechanical Engineering	2019	16449665
1926	A facile synthesis of Cs loaded TiO2 nanotube photoelectrode for the removal of 4-chloroguaiacol	Rajput H., Changotra R., Sangal V.K., Mahla S.K., Dhir A.	Rajput, H., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Changotra, R., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, 302017, India; Mahla, S.K., I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146001, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Chemosphere	2019	456535

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1927	Economic and environmental evaluation of rice straw processing technologies for energy generation: A case study of Punjab, India	Singh A., Basak P.	Singh, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Cleaner Production	2019	9596526
1928	Experimental designing of polymer-polymer-solvent coatings: Poly(styrene)-poly(ethylene glycol)-chlorobenzene coating	Sharma J., Ahuja S., Arya R.K.	Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed University), Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar, National Institute of Technology, Jalandhar, Punjab 144011, India	Progress in Organic Coatings	2019	3009440
1929	The effect of templates on the morphological and optical properties of BaMgAl10O17:Eu2+ phosphors	Jeet S., Pandey O.P.	Jeet, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147002, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147002, India	Vacuum	2019	0042207X
1930	A novel computer vision based neutrosophic approach for leaf disease identification and classification	Dhingra G., Kumar V., Joshi H.D.	Dhingra, G., Department of Electronics and Communication Engineering, Research Scholar, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Faculty, Thapar Institute of Engineering and Technology, Patiala, India; Joshi, H.D., Department of Electronics and Communication Engineering, Faculty, Thapar Institute of Engineering and Technology, Patiala, India	Measurement: Journal of the International Measurement Confederation	2019	2632241
1931	PbTiO3–Ni0.5Co0.5Fe2O4 multiferroic nanocomposites: Impact of ball-milling on dielectric, magnetic and ferroelectric properties	Lather S., Dalal J., Gupta A., Singh S., Singh D.P., Dahiya S., Maan A.S., Tripathi R., Ohlan A.	Lather, S., Department of Physics, Maharshi Dayanand University, Rohtak, 124001, India; Dalal, J., Department of Physics, Maharshi Dayanand University, Rohtak, 124001, India; Gupta, A., Department of Physics, Maharshi Dayanand University, Rohtak, 124001, India; Singh, S., University Institute of Engineering and Technology, Maharshi Dayanand University, Rohtak, 124001, India; Singh, D.P., Department of Physics, Thapar University, Patiala, 147004, India; Dahiya, S., Department of Physics, Maharshi Dayanand University, Rohtak, 124001, India; Maan, A.S., Department of Physics, Maharshi Dayanand University, Rohtak, 124001, India; Tripathi, R., University Institute of Engineering and Technology, Maharshi Dayanand University, Rohtak, 124001, India; Department of Physics, Chaudhary Bansi Lal University, Bhiwani, 127021, India; Ohlan, A., Department of Physics, Maharshi Dayanand University, Rohtak, 124001, India	Ceramics International	2019	2728842
1932	Efficient metal ion adsorption and photodegradation of Rhodamine-B by hierarchical porous Fe-Ni@SiO2 monolith	Sharma M., Singh J., Basu S.	Sharma, M., Division of Chemistry, Kyoto University, Kitashirakawa, Sakyo-ku, Kyoto, 606-8502, Japan; Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Microchemical Journal	2019	0026265X
1933	A co-relation study of efficient photocatalytic reduction of aromatic nitriles and band energies of Cu loaded elongated TiO2 nanocatalysts	Aulakh M.K., Pal B.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of the Taiwan Institute of Chemical Engineers	2019	18761070
1934	MHD mixed convection stagnation point flow of a micropolar nanofluid adjacent to stretching sheet: A revised model with successive linearization method	Seth G.S., Kumar B., Nandkeolyar R.	Seth, G.S., Department of Applied Mathematics, Indian Institute of Technology (ISM), Dhanbad, Jharkhand 826004, India; Kumar, B., Department of Applied Mathematics, Indian Institute of Technology (ISM), Dhanbad, Jharkhand 826004, India; Nandkeolyar, R., School of Mathematics, Thapar University, Patiala, Punjab 147004, India	Journal of Nanofluids	2019	2169432X
1935	Relevance of different Skyrme forces in the dynamics of Ca40,48+96Zr reactions	Sharma I., Kumar R., Sharma M.K.	Sharma, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2019	3759474
1936	A study on heat transfer and pressure drop in a turbulent flow regime of thermally insulated and conducting nanofluids	Mehta K.S., Kundan L., Mallick S.S.	Mehta, K.S., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Kundan, L., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Mallick, S.S., Mechanical Engineering Department, Thapar University, Patiala, 147004, India	Journal of Nanofluids	2019	2169432X
1937	Electro-hydrodynamics convection in dielectric rotating Maxwellian nanofluid layer	Sharma V., Chowdhary A., Gupta U., Sharma A.	Sharma, V., Department of Mathematics and Statistics, Himachal Pradesh University, Shimla, 171005, India; Chowdhary, A., Department of Mathematics and Statistics, Himachal Pradesh University, Shimla, 171005, India; Gupta, U., Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Sharma, A., Thapar Institute of Engineering and Technology, Thapar University, Patiala, 147004, India	Journal of Nanofluids	2019	2169432X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1938	Memory loss in central heavy-ion collisions at intermediate energy	Deepshikha, Kumar S.	Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kumar, S., Department of Physics, University Institute of Sciences, Chandigarh University Gharuan, Mohali, Punjab 140413, India	Nuclear Physics A	2019	3759474
1939	Automated assessment of breast cancer margin in optical coherence tomography images via pretrained convolutional neural network	Singla N., Dubey K., Srivastava V.	Singla, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dubey, K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Department of Electrical and Computer Engineering, University of California Los Angeles, Los Angeles, CA, United States	Journal of Biophotonics	2019	1864063X
1940	Experimental and numerical investigations on the effect of alkaline hornification on the hydrothermal ageing of Agave natural fiber composites	Jain D., Kamboj I., Bera T.K., Kang A.S., Singla R.K.	Jain, D., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Department of Biomedical Engineering and Mechanics, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States; Kamboj, I., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kang, A.S., I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	International Journal of Heat and Mass Transfer	2019	179310
1941	Adsorption of heavy metal ions by mesoporous ZnO and TiO ₂ @ZnO monoliths: Adsorption and kinetic studies	Sharma M., Singh J., Hazra S., Basu S.	Sharma, M., Division of Chemistry, Kyoto University, Kitashirakawa, Sakyo-ku, Kyoto, 606-8502, Japan; Singh, J., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Hazra, S., Saha Institute of Nuclear Physics, Kolkata, 700064, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India	Microchemical Journal	2019	0026265X
1942	Government regulations in cyber security: Framework, standards and recommendations	Srinivas J., Das A.K., Kumar N.	Srinivas, J., Jindal Global Business School, O. P. Jindal Global University Haryana 131001, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, (Deemed to be University), Patiala, 147 004, India	Future Generation Computer Systems	2019	0167739X
1943	In situ single-step reduction and silicidation of MoO ₃ to form MoSi ₂	Sharma P., Kaur T., Pandey O.P.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, India; Kaur, T., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, India	Journal of the American Ceramic Society	2019	27820
1944	Histogram based multilevel reversible data hiding scheme using simple and absolute difference images	Kukreja S., Kasana S.S., Kasana G.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Multimedia Tools and Applications	2019	13807501
1945	Analysis of the surface roughness for novel magnetorheological finishing of a typical blind hole workpiece	Sirwal S.A., Singh A.K.	Sirwal, S.A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2019	9544062
1946	Investigations to increase the failure load for joints in glass epoxy composites	Singh K., Saini J.S., Bhunia H., Singh J.	Singh, K., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Saini, J.S., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Singh, J., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2019	9544062
1947	Role of Dysprosium Doping on Structural, Optical, Magnetic and Electrical Properties of ZnO Nanorods	Aggarwal N., Vasisht A., Kaur K., Verma N.K.	Aggarwal, N., Department of Physics, Chandigarh University, Gharuan, Mohali, India; Vasisht, A., Department of Physics, Chandigarh Group of Colleges, Landran, Mohali, India; Kaur, K., Department of Physics, Chandigarh University, Gharuan, Mohali, India; Verma, N.K., School of Physics and Material Science, Thapar University, Patiala, Punjab, India	Journal of Superconductivity and Novel Magnetism	2019	15571939
1948	Crack growth analysis of carbon nanotube reinforced polymer nanocomposite using extended finite element method	Negi A., Bhardwaj G., Saini J.S., Grover N.	Negi, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2019	9544062
1949	LA-MHR: Learning automata based multilevel heterogeneous routing for opportunistic shared spectrum access to enhance lifetime of WSN	Tanwar S., Tyagi S., Kumar N., Obaidat M.S.	Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Tyagi, S., Department of Electronics and Communication Engineering, College of Technology, G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, 263153, India, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Obaidat, M.S., King Abdullah II School of Information Technology, University of Jordan, Amman, 11942, Jordan, ECE Department, Nazarbayev University, Astana, 010000, Kazakhstan	IEEE Systems Journal	2019	19328184

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1950	Investigation of α -C-class functions with applications	Hussain A., Ansari A.H., Chandok S., Shin D.Y., Parke C.	Hussain, A., Department of Basic Sciences and Humanities, Khawaja Fareed University of Engineering and Information Technology, Rahim yar Khan, 64200, Pakistan, Department of Mathematics, International Islamic University, H-10, Islamabad, 44000, Pakistan; Ansari, A.H., Department of Mathematics, Karaj Branch, Islamic Azad University, Karaj, Iran; Chandok, S., School of Mathematics, Thapar University, Patiala, Punjab 147-004, India; Shin, D.Y., Department of Mathematics, University of Seoul, Seoul, 02504, South Korea; Parke, C., Research Institute for Natural Sciences, Hanyang University, Seoul, 04763, South Korea	Journal of Computational Analysis and Applications	2019	15211398
1951	Multiobjective optimization for frequency support using electric vehicles: An aggregator-based hierarchical control mechanism	Kaur K., Singh M., Kumar N.	Kaur, K., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India	IEEE Systems Journal	2019	19328184
1952	Computed tomography reconstruction on distributed storage using hybrid regularization approach	Tiwari S., Kaur K., Pathak Y., Shivani S., Kaur K.	Tiwari, S., Computer Science and Engineering Department, TIET, Patiala, India; Kaur, K., Computer Science and Engineering Department, TIET, Patiala, India; Pathak, Y., Computer Science and Engineering Department, ABV-IIITM, Gwalior, India; Shivani, S., Computer Science and Engineering Department, TIET, Patiala, India; Kaur, K., School of Humanities Social Sciences, TIET, Patiala, India	Modern Physics Letters B	2019	2179849
1953	Blue-green light emitting inherent luminescent glasses synthesized from agro-food wastes	Punj S., Singh K.	Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2019	9574522
1954	A method for generating multiple solutions for multipoint five-axis tool positioning	Sharma S.K., Duvedi R.K., Bedi S., Mann S.	Sharma, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Duvedi, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Advanced Manufacturing Technology	2019	2683768
1955	Multi-objective differential evolution based random forest for e-health applications	Kaur M., Gianey H.K., Singh D., Sabharwal M.	Kaur, M., Apex Institute of Technology, Chandigarh University, Gharuan, Mohali, Punjab, India; Gianey, H.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, D., Apex Institute of Technology, Chandigarh University, Gharuan, Mohali, Punjab, India; Sabharwal, M., Apex Institute of Technology, Chandigarh University, Gharuan, Mohali, Punjab, India	Modern Physics Letters B	2019	2179849
1956	An initial new approach for magnetorheological finishing of ferromagnetic internal cylindrical surfaces	Bedi T.S., Singh A.K.	Bedi, T.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Advanced Manufacturing Technology	2019	2683768
1957	Improved design of magnetorheological honing tool based on finite element analysis and experimental examination of its performance	Grover V., Singh A.K.	Grover, V., Mechanical Engineering Department, Thapar University, Patiala, 147004, India; Singh, A.K., Mechanical Engineering Department, Thapar University, Patiala, 147004, India	International Journal of Advanced Manufacturing Technology	2019	2683768
1958	Some common fixed point theorems in ordered partial metric spaces via F-generalized contractive type mappings	Dhawan P., Kaur J.	Dhawan, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, J., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Mathematics	2019	22277390
1959	Decay of $^{203,204}\text{Pb}^*$ Nuclei at Energies Across the Coulomb Barrier Using Cluster Emission Approach	Virk N.K., Kumar R., Sharma M.K.	Virk, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala-, Punjab 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala-, Punjab 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala-, Punjab 147004, India	Brazilian Journal of Physics	2019	1039733
1960	Fog data analytics: A taxonomy and process model	Kumari A., Tanwar S., Tyagi S., Kumar N., Parizi R.M., Choo K.-K.R.	Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Parizi, R.M., Department of Software Engineering and Game Development, Kennesaw State UniversityGA, United States; Choo, K.-K.R., Department of Information Systems and Cyber Security and Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249, United States	Journal of Network and Computer Applications	2019	10848045
1961	Degradation of toxic industrial dyes using $\text{SnO}_2/\text{g-C}_3\text{N}_4$ nanocomposites: Role of mass ratio on photocatalytic activity	Singh J., Kumari P., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumari, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2019	10106030

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1962	Augmenting the photocatalytic performance of cobalt ferrite via change in structural and optical properties with the introduction of different rare earth metal ions	Dhiman M., Chudasama B., Kumar V., Tikoo K.B., Singhal S.	Dhiman, M., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Chudasama, B., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Kumar, V., HR-TEM Facility Lab, NIPER, Sector-67, Mohali, Punjab 160062, India; Tikoo, K.B., HR-TEM Facility Lab, NIPER, Sector-67, Mohali, Punjab 160062, India; Singhal, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Ceramics International	2019	2728842
1963	Performance Evaluation of SFBC MIMO-OFDM Using FrFT Under TWDP Fading Channel	Chawla T., Kansal A.	Chawla, T., Thapar University, Patiala, India; Kansal, A., Thapar University, Patiala, India	Wireless Personal Communications	2019	9296212
1964	Protocol Stack of Underwater Wireless Sensor Network: Classical Approaches and New Trends	Goyal N., Dave M., Verma A.K.	Goyal, N., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana 136119, India; Dave, M., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana 136119, India; Verma, A.K., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Wireless Personal Communications	2019	9296212
1965	A robust correlation coefficient measure of complex intuitionistic fuzzy sets and their applications in decision-making	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Applied Intelligence	2019	0924669X
1966	Optimal position and rating of DG in distribution networks by ABC-CS from load flow solutions illustrated by fuzzy-PSO	Bala R., Ghosh S.	Bala, R., Department of Electrical Engineering, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab 140407, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India	Neural Computing and Applications	2019	9410643
1967	Combined artificial bee colony algorithm and machine learning techniques for prediction of online consumer repurchase intention	Kumar A., Kabra G., Mussada E.K., Dash M.K., Rana P.S.	Kumar, A., School of Management, BML Munjal University, Gurgaon, Haryana, India; Kabra, G., Department of Operations Management, Xavier Institute of Management, Bhubaneswar, India; Mussada, E.K., School of Engineering and Technology, BML Munjal University, Gurgaon, Haryana, India; Dash, M.K., Indian Institute of Information Technology and Management, Gwalior, Madhya Pradesh, India; Rana, P.S., Computer Science and Engineering Department, Thapar University Patiala, Punjab, India	Neural Computing and Applications	2019	9410643
1968	Trajectory Tracking of 3D Hybrid Manipulator Through Human Hand Motion	Arora R., Bera T.K.	Arora, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bera, T.K., Thapar Institute of Engineering and Technology (Deemed University) (Earlier-Thapar University), Patiala, 147004, India	Arabian Journal for Science and Engineering	2019	2193567X
1969	Hybrid ABC-bat for solving short-term hydrothermal scheduling problems	Ghosh S., Kaur M., Bhullar S., Karar V.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhullar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Karar, V., Optical Devices and Systems, CSIR-Central Scientific Instruments Organization, Sector 30-C, Chandigarh, 160030, India	Energies	2019	19961073
1970	DHIMAN: A novel algorithm for economic Dispatch problem based on optimization method using Monte Carlo simulation and Astrophysics concepts	Dhiman G., Singh P., Kaur H., Maini R.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, P., SMT. Chandaben Mohanbhai Patel Institute of Computer Applications, CHARUSAT Campus, Changa, Anand, Gujarat, 388421, India; Kaur, H., Department of Computer Science, Govt. Bikram College of Commerce, Patiala, Punjab, 147004, India; Maini, R., Department of Computer Science, Govt. Bikram College of Commerce, Patiala, Punjab, 147004, India	Modern Physics Letters A	2019	2177323
1971	Amoxicillin electro-catalytic oxidation using Ti/RuO ₂ anode: Mechanism, oxidation products and degradation pathway	Kaur R., Kushwaha J.P., Singh N.	Kaur, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kushwaha, J.P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, N., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Electrochimica Acta	2019	134686
1972	High-order finite volume approximation for population density model based on quadratic integrate-and-fire neuron	Singh P., Kumar S., Koksal M.E.	Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Koksal, M.E., Department of Mathematics, Ondokuz Mayıs University, Samsun, Turkey	Engineering Computations (Swansea, Wales)	2019	2644401
1973	SnS ₂ /RGO based nanocomposite for efficient photocatalytic degradation of toxic industrial dyes under visible-light irradiation	Dashairya L., Sharma M., Basu S., Saha P.	Dashairya, L., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India; Sharma, M., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Saha, P., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India	Journal of Alloys and Compounds	2019	9258388
1974	A Retroactive Approach for Dynamic Shortest Path Problem	Sunita, Garg D.	Sunita, Thapar University, Patiala, India; Garg, D., Thapar University, Patiala, India	National Academy Science Letters	2019	0250541X

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1975	N-semble: neural network based ensemble approach	Royal R., Khanna D., Sandhu J.K., Hooda N., Rana P.S.	Royal, R., Department of Information and Communication Technology, ABV-Indian Institute of Information Technology, Gwalior, MP 474010, India; Khanna, D., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Sandhu, J.K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Hooda, N., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	International Journal of Machine Learning and Cybernetics	2019	18688071
1976	Parametric study of electro-Fenton treatment for real textile wastewater, disposal study and its cost analysis	Kaur P., Sangal V.K., Kushwaha J.P.	Kaur, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	International Journal of Environmental Science and Technology	2019	17351472
1977	A novel thresholding technique for R-peak detection in ECG	Kaur A., Agarwal A., Agarwal R., Kumar S.	Kaur, A., Electronics and Communication, Thapar Institute of Engineering Technology, Patiala, India; Agarwal, A., Electronics and Communication, Thapar Institute of Engineering Technology, Patiala, India; Agarwal, R., Electrical Instrumentation, Thapar Institute of Engineering Technology, Patiala, India; Kumar, S., Electronics and Communication, Thapar Institute of Engineering Technology, Patiala, India	2019 2nd International Conference on Advanced Computational and Communication Paradigms, ICACCP 2019	2019	
1978	Neural network and ROS based threat detection and patrolling assistance	Maram S.S., Vishnoi T., Pandey S.	Maram, S.S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala Punjab, 147004, India; Vishnoi, T., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala Punjab, 147004, India; Pandey, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala Punjab, 147004, India	2019 2nd International Conference on Advanced Computational and Communication Paradigms, ICACCP 2019	2019	
1979	Frame Based Remaining Energy Control for CDMA Mobile Ad-hoc Network	Kumar K., Chetna, Kumar B., Singh V.P.	Kumar, K., LPU, Phagwara, Punjab, India; Chetna, BSNL, Sangrur, Punjab, India; Kumar, B., MRIU, Faridabad, Haryana, India; Singh, V.P., Thapar University, Patiala, Punjab, India	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	
1980	Real-Time Sentiment Analysis of Tweets: A Case Study of Punjab Elections	Gupta Y., Kumar P.	Gupta, Y., Computer Science and Engineering Department(CSED), Thapar University, Patiala, India; Kumar, P., Computer Science and Engineering Department(CSED), Thapar University, Patiala, India	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	
1981	Lignocellulosic biomass characteristics for bioenergy application: An overview	Akhtar N., Gupta K., Goyal D., Goyal A.	Akhtar, N., Department of Biotechnology, Thapar University, Patiala, Punjab 147 004, India; Gupta, K., Department of Biotechnology, Thapar University, Patiala, Punjab 147 004, India; Goyal, D., Department of Biotechnology, Thapar University, Patiala, Punjab 147 004, India; Goyal, A., Department of Biotechnology, Indian Institute of Technology Guwahati, Guwahati, Assam 781 039, India	Environmental Engineering and Management Journal	2019	15829596
1982	Numerical investigation of particle effect on water drop under high voltage silicone rubber insulator	Srivastava V., Rajpurohit B.S., Kaur M.	Srivastava, V., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajpurohit, B.S., School of Computing and Electrical Engineering, Indian Institute of Technology Mandi, Mandi, India; Kaur, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of 2019 International Conference on High Voltage Engineering and Technology, ICHVET 2019	2019	
1983	Ensemble classifier for improve diagnosis of the breast cancer using optical coherence tomography and machine learning	Dubey K., Singla N., Butola A., Lathe A., Quaiser D., Srivastava A., Mehta D.S., Srivastava V.	Dubey, K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Singla, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Butola, A., Department of Physics, Indian Institute of Technology Delhi, Delhi, India; Lathe, A., Department of Physics, Indian Institute of Technology Delhi, Delhi, India; Quaiser, D., Department of Surgical Discipline, All India Institute of Medical Sciences, New Delhi 110029, India; Srivastava, A., Department of Surgical Discipline, All India Institute of Medical Sciences, New Delhi 110029, India; Mehta, D.S., Department of Physics, Indian Institute of Technology Delhi, Delhi, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Laser Physics Letters	2019	16122011
1984	Collective clusterization approach to investigate the relevance of deformation effects in Sn radioactivity	Sharma K., Sawhney G., Sharma M.K., Gupta R.K.	Sharma, K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sawhney, G., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Gupta, R.K., Department of Physics, Panjab University, Chandigarh, 160014, India	European Physical Journal A	2019	14346001
1985	Elucidation of preferential elimination of Cr(VI) via bioinspired adsorbents: a comparative assessment	Banerjee S., Barman S., Halder G.	Banerjee, S., Department of Chemical Engineering, National Institute of Technology, Durgapur, West Bengal 713209, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Halder, G., Department of Chemical Engineering, National Institute of Technology, Durgapur, West Bengal 713209, India	Environmental Earth Sciences	2019	18666280
1986	Prediction of drug synergy score using ensemble based differential evolution	Singh H., Rana P.S., Singh U.	Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, U., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	IET Systems Biology	2019	17518849

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1987	Delayed information induces oscillations in a dynamical model for infectious disease	Kumar A., Srivastava P.K., Yadav A.	Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India; Yadav, A., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India	International Journal of Biomathematics	2019	17935245
1988	Caching methodologies in Content centric networking (CCN): A survey	Lal N., Kumar S., Kadian G., Chaurasiya V.K.	Lal, N., Thapar University, Patiala, India; Kumar, S., IIIT Allahabad, Prayagraj, India; Kadian, G., Thapar University, Patiala, India; Chaurasiya, V.K., IIIT Allahabad, Prayagraj, India	Computer Science Review	2019	15740137
1989	Recent Advances and Developments of in vitro Evaluation of Heterocyclic Moieties on Cancer Cell Lines	Tandon R., Singh I., Luxami V., Tandon N., Paul K.	Tandon, R., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Tandon, N., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Chemical Record	2019	15278999
1990	Optimizing acrylonitrile grafting onto delignified rice straw via response surface methodology towards its flame retardancy and durability intensification	Mukherjee A., Barman S., Halder G.	Mukherjee, A., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India; Barman, S., Department of Chemical Engineering, Thapar University, Punjab, 147004, India; Halder, G., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India	Journal of Environmental Chemical Engineering	2019	22133437
1991	Mean centred clustering: improving melody classification using time- and frequency-domain supervised clustering	Kaur C., Kumar R.	Kaur, C., Department of Electronics and Computer Engineering, Thapar University, Patiala, 147004, India; Kumar, R., Department of Electronics and Computer Engineering, Thapar University, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2019	2562499
1992	Structural, kinetic and thermodynamic characterizations of SDS-induced molten globule state of a highly negatively charged cytochrome c	Jain R., Sharma D., Kumar R., Kumar R.	Jain, R., School of Chemistry and Biochemistry, Thapar University, Patiala, India, Department of Chemistry, Gujranwala Guru Nanak Khalsa College, Ghumar Mandi, Ludhiana, India; Sharma, D., Council of Scientific and Industrial Research, Institute of Microbial Technology, Sector 39A, Chandigarh, India; Kumar, R., Council of Scientific and Industrial Research, Institute of Microbial Technology, Sector 39A, Chandigarh, India; Kumar, R., School of Chemistry and Biochemistry, Thapar University, Patiala, India, School of Basic and Applied Sciences, Department of Chemical Sciences, Central University of Punjab, Bathinda, 151001, India	Journal of Biochemistry	2019	0021924X
1993	Evolution of Internet of Things (IoT) and its significant impact in the field of Precision Agriculture	Khanna A., Kaur S.	Khanna, A., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Computers and Electronics in Agriculture	2019	1681699
1994	Perturbation in cellular redox homeostasis: Decisive regulator of T cell mediated immune responses	Gambhir L., Sharma V., Kandwal P., Saxena S.	Gambhir, L., Department of Life Sciences, Shri Guru Ram Rai University, Dehradun, Uttarakhand, India; Sharma, V., School of Life Sciences, Jawaharlal Nehru University, New Delhi, India; Kandwal, P., Department of Chemistry, National Institute of Technology Uttarakhand, India; Saxena, S., Department of Biotechnology, Thapar University, Patiala, Punjab, India	International Immunopharmacology	2019	15675769
1995	A complementary Sierpinski gasket fractal antenna array for wireless MIMO portable devices	Kaur A., Gupta S.	Kaur, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Gupta, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India	Microwave and Optical Technology Letters	2019	8952477
1996	Cadmium induced glutathione bioaccumulation mediated by γ -glutamylcysteine synthetase in ectomycorrhizal fungus Hebeloma cylindrosporum	Khullar S., Reddy M.S.	Khullar, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India	BioMetals	2019	9660844
1997	Seagull optimization algorithm: Theory and its applications for large-scale industrial engineering problems	Dhiman G., Kumar V.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Knowledge-Based Systems	2019	9507051
1998	Modeling and Optimization of HAZ Characteristics for Submerged Arc Welded High Strength Pipeline Steel	Sharma S.K., Maheshwari S., Singh R.K.R.	Sharma, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Maheshwari, S., Division of Manufacturing Processes and Automation Engineering, Netaji Subhas University of Technology, Dwarka, New Delhi 110078, India; Singh, R.K.R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Transactions of the Indian Institute of Metals	2019	9722815
1999	Optimization of sodium dodecyl sulphate loading in poly(vinyl alcohol)-water coatings	Sharma I., Sharma J., Ahuja S., Kumar Arya R.	Sharma, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Kumar Arya, R., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India	Progress in Organic Coatings	2019	3009440

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2000	Quaternary polymeric coating as an alternative to minimize the use of costly or toxic solvents: Poly(styrene)-ethylbenzene-toluene-p-xylylene system	Prashar A., Sharma J., Ahuja S., Chandra A., Arya R.K.	Prashar, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Bhadson Road, Patiala, Punjab 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, GT Road, Bye Pass, Jalandhar, Punjab 144011, India	Progress in Organic Coatings	2019	3009440
2001	Fuzzy Logic Controller for Obstacle Avoidance of Mobile Robot	Singh R., Bera T.K.	Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Nonlinear Sciences and Numerical Simulation	2019	15651339
2002	ALFC of hybrid multi-generation power system using UC and TCPS by ANFIS control technique	Prakash S., Sinha S.K.	Prakash, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sinha, S.K., Electrical Engineering Department, K.N.I.T, Sultanpur, India	International Journal of Electronics	2019	207217
2003	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions	Kaur N., Mehta A., Mishra A., Chaudhary S., Rawat M., Basu S.	Kaur, N., Dept. of Nanotechnology, Sri Guru Granth Sahib World University, India; Mehta, A., School of Chemistry and Biochemistry, Thapar University, India; Mishra, A., School of Chemistry and Biochemistry, Thapar University, India; Chaudhary, S., Department of Chemistry and Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh, 160014, India; Rawat, M., Dept. of Nanotechnology, Sri Guru Granth Sahib World University, India; Basu, S., School of Chemistry and Biochemistry, Thapar University, India	Materials Science and Engineering C	2019	9284931
2004	Generalized intuitionistic fuzzy soft power aggregation operator based on t-norm and their application in multicriteria decision-making	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Intelligent Systems	2019	8848173
2005	Design and development of 2 kW, 3 dB hybrid coupler for the prototype Ion Cyclotron Resonance Frequency (ICRF) system	Jain A., Yadav R.P., Kulkarni S.V.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, India; Kulkarni, S.V., Institute for Plasma Research, Gandhi nagar, Gujarat, India	International Journal of Microwave and Wireless Technologies	2019	17590787
2006	DRoPS: A demand response optimization scheme in SDN-enabled smart energy ecosystem	Singh Aujla G., Garg S., Batra S., Kumar N., You I., Sharma V.	Singh Aujla, G., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, Computer Science & Engineering Department, Chandigarh University Mohali, India; Garg, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Batra, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; You, I., Department of Information Security Engineering, Soonchunhyang University Asan-si 31538, South Korea; Sharma, V., Department of Information Security Engineering, Soonchunhyang University Asan-si 31538, South Korea	Information Sciences	2019	200255
2007	Strength and microstructural analysis of concrete incorporating ash from sunflower seed shells combustion	Grubeša I.N., Radeka M., Malešev M., Radonjanin V., Gojević A., Siddique R.	Grubeša, I.N., Faculty of Civil Engineering Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia; Radeka, M., Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, University in Novi Sad, Novi Sad, Serbia; Malešev, M., Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, University in Novi Sad, Novi Sad, Serbia; Radonjanin, V., Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, University in Novi Sad, Novi Sad, Serbia; Gojević, A., Josip Juraj Strossmayer University of Osijek, Osijek, Croatia; Siddique, R., Department of Civil Engineering, Thapar University, Patiala, Punjab, India	Structural Concrete	2019	14644177
2008	Design of secure key management and user authentication scheme for fog computing services	Wazid M., Das A.K., Kumar N., Vasilakos A.V.	Wazid, M., Cyber Security and Networks Lab, Innopolis University, Innopolis, 420500, Russian Federation; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Vasilakos, A.V., Department of Computer Science, Electrical and Space Engineering, Lulea University of Technology, Lulea, 971 87, Sweden	Future Generation Computer Systems	2019	0167739X
2009	Post-yield deformation parameters of reinforced concrete beam with corroded reinforcement	Yadav D., Kwatra N., Agarwal P.	Yadav, D., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, P., Department of Earthquake Engineering, IIT Roorkee, Roorkee, India	Structural Concrete	2019	14644177
2010	Using solar energy for water purification through nanoparticles assisted evaporation	Ohri V., Khullar V.	Ohri, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Solar Energy Engineering, Transactions of the ASME	2019	1996231

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2011	Cognitive complexity as a quantifier of version to version Java-based source code change: An empirical probe	Kaur L., Mishra A.	Kaur, L., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Mishra, A., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Information and Software Technology	2019	9505849
2012	Performance of a new ceramic microfiltration membrane based on kaolin in textile industry wastewater treatment	Saini P., Bulasara V.K., Reddy A.S.	Saini, P., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Reddy, A.S., School of Energy and Environment, Thapar University, Patiala, Punjab, India	Chemical Engineering Communications	2019	986445
2013	Third generation of advanced high-strength steels: Processing routes and properties	Nanda T., Singh V., Singh V., Chakraborty A., Sharma S.	Nanda, T., Department of Mechanical Engineering, Thapar University, India; Singh, V., Department of Mechanical Engineering, Thapar University, India; Singh, V., Department of Mechanical Engineering, Thapar University, India; Chakraborty, A., Department of Mechanical Engineering, Thapar University, India; Sharma, S., Department of Mechanical Engineering, Thapar University, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2019	14644207
2014	Modeling of surface roughness in the magnetorheological cylindrical finishing process	Grover V., Singh A.K.	Grover, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Singh, A.K., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2019	9544089
2015	Robustness Analysis of LFC for Multi Area Power System integrated with SMES-TCPS by Artificial Intelligent Technique	Sharma M., Bansal R.K., Prakash S.	Sharma, M., Department of Electrical Engineering, Guru Kashi University, Bathinda, Punjab, India; Bansal, R.K., Department of Electrical Engineering, Guru Kashi University, Bathinda, Punjab, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Journal of Electrical Engineering and Technology	2019	19750102
2016	Non-isothermal oxidation kinetics of nano-laminated Cr2AlC MAX phase	Sharma P., Pandey O.P.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India	Journal of Alloys and Compounds	2019	9258388
2017	Investigation of factors influencing the performance of nanofluid-based direct absorption solar collector using Taguchi method	Bhalla V., Khullar V., Tyagi H.	Bhalla, V., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tyagi, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India	Journal of Thermal Analysis and Calorimetry	2019	13886150
2018	Parametric study of the energy efficiency of the HDH desalination unit integrated with nanofluid-based solar collector	Garg K., Khullar V., Das S.K., Tyagi H.	Garg, K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab 140001, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Das, S.K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab 140001, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar, Rupnagar, Punjab 140001, India	Journal of Thermal Analysis and Calorimetry	2019	13886150
2019	Biogenic ZnO nanoparticles: A study of blueshift of optical band gap and photocatalytic degradation of reactive yellow 186 dye under direct sunlight	Singh J., Kaur S., Kaur G., Basu S., Rawat M.	Singh, J., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Kaur, S., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Kaur, G., Department of Computer Science and Engineering, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Basu, S., Department of Chemistry and Biochemistry, Thapar University, Patiala, Punjab 147004, India; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India	Green Processing and Synthesis	2019	21919542
2020	Effect of heat-input and cooling-time on bead characteristics in SAW	Sharma S.K., Maheshwari S., Singh R.K.R.	Sharma, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Division of Manufacturing Processes & Automation Engineering, Netaji Subhas Institute of Technology, New Delhi, India; Maheshwari, S., Division of Manufacturing Processes & Automation Engineering, Netaji Subhas Institute of Technology, New Delhi, India; Singh, R.K.R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Materials and Manufacturing Processes	2019	10426914
2021	ADYTiA: Adaptive and Dynamic TCP Interface Architecture for heterogeneous networks	Vanzara R., Sharma P., Bhatt H.S., Tanwar S., Tyagi S., Kumar N., Obaidat M.S.	Vanzara, R., U. V. Patel College of Engineering, Ganpat University, Mehsana, India; Sharma, P., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Bhatt, H.S., Space Applications Center (ISRO), Ahmedabad, India; Tanwar, S., Department of Computer Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Obaidat, M.S., ECE Department, Nazarbayev University, Astana, Kazakhstan and, Jordan, King Abdullah II School of IT, University of Jordan, Amman, Jordan	International Journal of Communication Systems	2019	10745351
2022	Slurry erosion behavior of plasma sprayed coating on turbine steel	Kaushal S., Singh S.	Kaushal, S., Department of Mechanical Engineering, Thapar University, Patiala, India; Singh, S., Department of Mechanical Engineering, The Northcap University, Gurgaon, India	Industrial Lubrication and Tribology	2019	368792

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2023	Tailoring of nanozeolite NaX for enhanced removal of a phytoestrogen from its aqueous solutions	Goyal N., Bulasara V.K., Barman S.	Goyal, N., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Barman, S., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India	Separation Science and Technology (Philadelphia)	2019	1496395
2024	Enhanced performance of organic nanoparticles of a Schiff base for voltammetric sensor of Cu(II) ions in aqueous samples	Kumar S., Mittal S.K., Kaur N.	Kumar, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Kaur, N., Department of Chemistry, Panjab University Chandigarh, Punjab, 160014, India	Analytical Methods	2019	17599660
2025	Behavior of RC exterior beam column joint retrofitted using UHP-HFRC	Sharma R., Bansal P.P.	Sharma, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bansal, P.P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Construction and Building Materials	2019	9500618
2026	Effect of duplex nanostructured TiAISIN/TISIN/TiAIN-TiAIN and TiAIN-TiAISIN/TISIN/TiAIN coatings on the hard turning performance of Al2O3-TiCN ceramic cutting tools	Kumar C.S., Patel S.K.	Kumar, C.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Patel, S.K., Department of Mechanical Engineering, National Institute of Technology Rourkela Odisha 769008, India	Wear	2019	431648
2027	A survey on privacy protection in blockchain system	Feng Q., He D., Zeadally S., Khan M.K., Kumar N.	Feng, Q., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Zeadally, S., College of Communication and Information at the University of Kentucky, United States; Khan, M.K., Center of Excellence in Information Assurance (CoEIA), King Saud University, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India	Journal of Network and Computer Applications	2019	10848045
2028	Development of an ionogel membrane PVA/[EMIM][SCN] with enhanced thermal stability and ionic conductivity for electrochemical application	Safna Hussan K.P., Thayyil M.S., Jinitha T.V., Kolte J.	Safna Hussan, K.P., Department of Physics, University of Calicut, Malappuram, Kerala 673635, India; Thayyil, M.S., Department of Physics, University of Calicut, Malappuram, Kerala 673635, India; Jinitha, T.V., Department of Chemistry, University of Calicut, Malappuram, Kerala 673635, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Molecular Liquids	2019	1677322
2029	Development of magnetically retrievable spinel nanoferrites as efficient catalysts for aminolysis of epoxides with amines	Sheoran A., Dhiman M., Bhukal S., Malik R., Agarwal J., Chudasama B., Singhal S.	Sheoran, A., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Dhiman, M., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Bhukal, S., Guru Jambheshwar University of Science and Technology, Hisar, 125001, India; Malik, R., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Agarwal, J., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Chudasama, B., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Singhal, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Materials Chemistry and Physics	2019	2540584
2030	Electron beam induced degradation of ofloxacin in aqueous solution: Kinetics, removal mechanism and cytotoxicity assessment	Changotra R., Guin J.P., Khader S.A., Varshney L., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guin, J.P., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Khader, S.A., Isotope & Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemical Engineering Journal	2019	13858947
2031	A Comparative Analysis of Energy Efficient Hierarchical Routing Protocols for Wireless Sensor Networks	Mehta D., Saxena S.	Mehta, D., CSED, Thapar University, Patiala, India, School of Computer Application, Lovely Professional University, Phagwara, India; Saxena, S., CSED, Thapar University, Patiala, India	Proceedings - 4th International Conference on Computing Sciences, ICCS 2018	2019	
2032	Evaluation of the 2,2',2"-Nitrilotrisethanol as an Entrainer for Separation of an Isopropanol + Water Mixture	Jain T., Sharma H., Singh N., Kushwaha J.P.	Jain, T., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Chemical and Engineering Data	2019	219568
2033	Some root level modifications in interval valued fuzzy graphs and their generalizations including neutrosophic graphs	Jan N., Ullah K., Mahmood T., Garg H., Davvaz B., Saeid A.B., Broumi S.	Jan, N., Department of Mathematics and Statistics, International Islamic University Islamabad Pakistan, Islamabad Capital Territory, 44000, Pakistan; Ullah, K., Department of Mathematics and Statistics, International Islamic University Islamabad Pakistan, Islamabad Capital Territory, 44000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad Pakistan, Islamabad Capital Territory, 44000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Davvaz, B., Department of Mathematics, Yazd University, Yazd, 89195-741, Iran; Saeid, A.B., Department of Pure Mathematics, Faculty of Mathematics and Computer, Shahid Bahonar University of Kerman, Kerman, 7616913439, Iran; Broumi, S., Laboratory of Information Processing, University Hassan II, Casablanca, 20000, Morocco	Mathematics	2019	22277390

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2034	RADAR: Self-configuring and self-healing in resource management for enhancing quality of cloud services	Gill S.S., Chana I., Singh M., Buyya R.	Gill, S.S., Cloud Computing and Distributed Systems (CLOUDS) Laboratory, School of Computing and Information Systems, The University of Melbourne, Melbourne, Australia; Chana, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Buyya, R., Cloud Computing and Distributed Systems (CLOUDS) Laboratory, School of Computing and Information Systems, The University of Melbourne, Melbourne, Australia	Concurrency and Computation: Practice and Experience	2019	15320626
2035	α H- Ψ H-Multivalued contractive mappings and related results in complete metric spaces with an application	Dhawan P., Jain K., Kaur J.	Dhawan, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Jain, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, J., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Mathematics	2019	22277390
2036	Factors impacting customer satisfaction: an empirical investigation into online shopping in India	Tandon U., Kiran R.	Tandon, U., Maharaja Agrasen University, Solan, India; Kiran, R., Thapar University Patiala, Patiala, India	Journal of Information Technology Case and Application Research	2019	15228053
2037	Socio-culturally induced distress among migrant labourers in India: a qualitative inquiry	Yadav S.	Yadav, S., Department of Humanities and Social Sciences, Indian Institute of Technology, Kanpur, India, School of Humanities and Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India	Mental Health, Religion and Culture	2019	13674676
2038	A Neuro-Genetic Technique for Pruning and Optimization of ANN Weights	Sakshi S., Kumar R.	Sakshi, S., Electronics & Communication Engineering Department, Thapar University, Patiala, India; Kumar, R., Electronics & Communication Engineering Department, Thapar University, Patiala, India	Applied Artificial Intelligence	2019	8839514
2039	A Perylene diimide based fluorescent probe for caffeine in aqueous medium	Karmakar P., Manna S., Maiti K., Ali S.S., Guria U.N., Sarkar R., Datta P., Mandal D., Mahapatra A.K.	Karmakar, P., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India; Manna, S., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India; Maiti, K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India; Ali, S.S., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India; Guria, U.N., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India; Sarkar, R., Centre for Healthcare Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India; Datta, P., Centre for Healthcare Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Mahapatra, A.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India	Supramolecular Chemistry	2019	10610278
2040	Transformation of Identity as a Travelling Concept: A Case Study	Saxena S., Sharma D.	Saxena, S., School of Humanities and Social Sciences, Thapar University, Patiala, India; Sharma, D., School of Humanities and Social Sciences, Thapar University, Patiala, India	Interventions	2019	1369801X
2041	EXISTENCE OF PICARD-JUNGCK OPERATOR USING –SIMULATION FUNCTIONS IN GENERALIZED METRIC SPACES	Chandok S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Applied Mathematics and Informatics	2019	27341194
2042	Nano-finishing of Internal Surface of Power Steering Housing Cylinder Using Rotational Magnetorheological Honing Process	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes on Multidisciplinary Industrial Engineering	2019	25225022
2043	Effect of BGA Biofertilizers Using Different Carrier Materials on Rice Crop	Kaur R., Goyal D.	Kaur, R., Department of Biotechnology, Beant College of Engineering and Technology, Punjab, Gurdaspur, India; Goyal, D., Department of Biotechnology, Thapar University, Punjab, Patiala, India	Advances in Plant & Microbial Biotechnology	2019	
2044	IoT Based Agriculture as a Cloud and Big Data Service: The Beginning of Digital India	Gill S.S., Chana I., Buyya R.	Gill, S.S., University of Melbourne, Australia; Chana, I., Thapar University, India; Buyya, R., University of Melbourne, Australia	Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications	2019	
2045	Recent Progress in TiO ₂ - and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation	Venkata Reddy C., Reddy K.R., Shetti N.P., Mishra A., Basu S.	Venkata Reddy, C., School of Mechanical Engineering, Yeungnam University, Gyeongsan, South Korea; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW, Australia; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Hubballi, India; Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India	Nanoscale Materials in Water Purification	2019	
2046	Experimental and Numerical Assessment of Residual Stresses in AA6061 After Surface Treatment by Deep Cold Rolling	Kumar R., Kumar G., Gautam V., Konar S.	Kumar, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gautam, V., Delhi Technological University, New Delhi, 110042, India; Konar, S., Delhi Technological University, New Delhi, 110042, India	Lecture Notes on Multidisciplinary Industrial Engineering	2019	25225022

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2047	A DEFS Based System for Differential Diagnosis Between Severe Fatty Liver and Cirrhotic Liver Using Ultrasound Images	Subramanya M.B., Virmani J., Kriti	Subramanya, M.B., Vidya Vikas Institute of Engineering and Technology, Mysuru, India; Virmani, J., CSIR-CSIO, Chandigarh, India; Kriti	Machine Learning in Bio-Signal Analysis and Diagnostic Imaging	2019	
2048	Intention to use and adoption of IT innovations in organizations: A meta-analytic examination of the moderating role of innovation type and socio-economic context	Chauhan S., Gupta P., Mehta N., Goyal S.	Chauhan, S., O.P. Jindal Global University, Sonapat Narela Road, Near Jagdishpur Village, Sonapat, Haryana, India; Gupta, P., Management Development Institute, Block C, Sukhrali, Sector 17, Gurugram, Haryana, India; Mehta, N., University of North Carolina at Greensboro, 1400 Spring Garden St, Greensboro, NC 27412, United States; Goyal, S., LM Thapar School of Management, Dera Bassi Campus, Mohali, Punjab, India	40th International Conference on Information Systems, ICIS 2019	2019	
2049	Node Credit Based Efficient Flooding (NCBEF) Method for Mobile Ad-hoc Networks	Gianey H.K., Choudhury T., Eingar A.A.	Gianey, H.K., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Choudhury, T., Department of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Engar, A.A., Faculty of Computers & Artificial Intelligence, Beni-Suef University, Beni-Suef City, Salah Salem Str.62511, Egypt	EAI Endorsed Transactions on Industrial Networks and Intelligent Systems	2019	24100218
2050	Experimental Investigation into the Applicability of Nanoparticles in Purification of Sewage Water Through Usage of Solar Energy	Ohri V., Khullar V.	Ohri, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Energy, Environment, and Sustainability	2019	25228366
2051	Transesterification of triglyceride over Ni impregnated Zn/CaO nanocatalysts	Kumar S., Thakur N., Abida K., Kumar A., Gupta R.K., Ali A.	Kumar, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Thakur, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Abida, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Kumar, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Materials Today: Proceedings	2019	22147853
2052	Candida rugosa lipase immobilization over SBA-15 to prepare solid biocatalyst for cotton seed oil transesterification	Katiyar M., Abida K., Ali A.	Katiyar, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Abida, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Materials Today: Proceedings	2019	22147853
2053	On SiC/Al2O3 reinforced HDPE 3D printed rapid tooling	Singh R., Kumar S., Bedi P., Hashmi M.S.J.	Singh, R., Production Engg. Dept., Guru Nanak Dev Engineering College, Ludhiana, India, Mechanical Engg. Dept, National Institute of Technical Teachers Training and Research, Chandigarh, India; Kumar, S., Mechanical Engineering. Dept, Thapar Institute of Engineering and Technology, Patiala, India; Bedi, P., Production Engg. Dept., Guru Nanak Dev Engineering College, Ludhiana, India; Hashmi, M.S.J., School of Mechanical and Manufacturing Engg, Dublin City University, Dublin, Ireland	Materials Today: Proceedings	2019	22147853
2054	On wear of 3D printed Al2O3 reinforced Nylon6 matrix based functional prototypes	Singh R., Kumar S., Bedi P., Hashmi M.S.J.	Singh, R., Dept. of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India, Dept. of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Kumar, S., Dept. of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bedi, P., Dept. of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Hashmi, M.S.J., School of Mechanical and Manufacturing Engg., Dublin City University, Dublin, Ireland	Materials Today: Proceedings	2019	22147853
2055	Potential applications of three-dimensional printing for anatomical simulations and surgical planning	Babbar A., Sharma A., Bansal S., Mago J., Toor V.	Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Sharma, A., Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Bansal, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Mago, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Toor, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Materials Today: Proceedings	2019	22147853
2056	Thermo-mechanical aspects and temperature measurement techniques of bone grinding	Babbar A., Jain V., Gupta D.	Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Materials Today: Proceedings	2019	22147853
2057	PNN-based classification of retinal diseases using fundus images	Virmani J., Singh G.P., Singh Y., Kriti	Virmani, J., CSIR-Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, India; Singh, G.P., Punjab Engineering College, Chandigarh, India; Singh, Y., Punjab Engineering College, Chandigarh, India; Kriti, Thapar Institute of Engineering and Technology, Patiala, India	Sensors for Health Monitoring	2019	

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2058	Fungal Endophytes: A Novel Source of Cytotoxic Compounds	Deshmukh S.K., Gupta M.K., Prakash V., Reddy M.S.	Deshmukh, S.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), New Delhi, India; Gupta, M.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), New Delhi, India; Prakash, V., Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Reference Series in Phytochemistry	2019	2511834X
2059	Utilization of industrial by-products and natural ashes in mortar and concrete development of sustainable construction materials	Siddique R., Kunal, Mehta A.	Siddique, R., Thapar University, Patiala, Punjab, India; Kunal, Thapar University, Patiala, Punjab, India; Mehta, A., Arkade Consultants, Hisar, Haryana, India	Nonconventional and Vernacular Construction Materials: Characterisation, Properties and Applications	2019	
2060	Mehar method for solving unbalanced generalized interval-valued trapezoidal fuzzy number transportation problems	Mishra A., Kumar A., Appadoo S.S.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Winnipeg, MB, Canada	Maritime Transport and Regional Sustainability	2019	
2061	Various fixed point theorems in dualistic partial metric spaces	Manro S., Chandok S., Bhatia S.S.	Manro, S., School of Mathematics, Thapar University, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar University, Patiala, 147004, India; Bhatia, S.S., School of Mathematics, Thapar University, Patiala, 147004, India	Journal of Nonlinear and Convex Analysis	2019	13454773
2062	Application of Nanofluid-Based Direct Absorption Solar Collector in Once-Through Multistage Flash Desalination System	Garg K., Khullar V., Das S.K., Tyagi H.	Garg, K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Das, S.K., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India	Energy, Environment, and Sustainability	2019	25228366
2063	Evaluation of high temperature oxidation performance of bare and coated T91 steel	Kumar M., Mudgal D., Ahuja L.	Kumar, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, 147001, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, 147001, India; Ahuja, L., Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Sangrur Punjab, 148106, India	Materials Today: Proceedings	2019	22147853
2064	An assessment of residual stresses and micro-structure during single point incremental forming of commercially pure titanium used in biomedical applications	Kumar R., Kumar G., Singh A.	Kumar, R., Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Kumar, G., Birla Institute of Technology and Science, Pilani-Dubai Campus, Dubai, 345055, United Arab Emirates; Singh, A., Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Materials Today: Proceedings	2019	22147853
2065	Automated detection of malaria infected red blood cells using spatial coherence microscope via ensemble model	Singla N., Dubey K., Srivastava V.	Singla, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Dubey, K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Optics InfoBase Conference Papers	2019	21622701
2066	High temperature corrosion performance of ceria doped Cr3C2-NiCr coated superalloys under actual medical waste atmosphere	Ahuja L., Mudgal D.	Ahuja, L., Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Sangrur Punjab, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, India	Materials Today: Proceedings	2019	22147853
2067	On multi response optimization and process capability analysis for surface properties of 3D printed functional prototypes of PVC reinforced with PP and HAp	Sharma R., Singh R., Batish A.	Sharma, R., Mechanical Engineering Dept., T.I.E.T, Patiala, 147004, India; Singh, R., Production Engineering Dept., G.N.D.E.C, Ludhiana, 141006, India; Batish, A., Mechanical Engineering Dept., T.I.E.T, Patiala, 147004, India	Materials Today: Proceedings	2019	22147853
2068	Assessment of creep in composite disc having exponential, hyperbolic and uniform thickness profiles	Singh R., Saxena R.K., Khanna K., Gupta V.K.	Singh, R., Department of Mechanical Engg., Punjabi University, Patiala, 147002, India; Saxena, R.K., Department of Mechanical Engg., SLIET, Longowal, Sangrur, 148106, India; Khanna, K., Department of Mechanical Engg., T.I.E.T., Patiala, 147001, India; Gupta, V.K., Department of Mechanical Engg., Punjabi University, Patiala, 147002, India	Materials Today: Proceedings	2019	22147853
2069	A novel investigation study on float glass hole surface integrity & tool wear using Chemical assisted Rotary ultrasonic machining	Sharma A., Jain V., Gupta D.	Sharma, A., Chitkara College of Applied Engineering, Chikara University, Punjab, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Materials Today: Proceedings	2019	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2070	Recent developments in ectomycorrhizal research	Kaur T., Reddy M.S.	Kaur, T., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Advancing Frontiers in Mycology and Mycotechnology: Basic and Applied Aspects of Fungi	2019	
2071	Fungal bioactive compounds in pharmaceutical research and development	Saxena S., Chhibber M., Singh I.P.	Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, I.P., Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), Sector 67, SAS Nagar (Mohali) Punjab 160 062, India	Current Bioactive Compounds	2019	15734072
2072	On process capability comparison of hybrid and multi blend PLA matrix composite: Magnetic and surface properties view point	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Mechanical Engineering Dept., T.I.E.T., Patiala, 147004, India; Singh, R., Production Engineering Dept., Gndec, Ludhiana, 141006, India; Singh, T.P., Mechanical Engineering Dept., T.I.E.T., Patiala, 147004, India; Batish, A., Mechanical Engineering Dept., T.I.E.T., Patiala, 147004, India	Materials Today: Proceedings	2019	22147853
2073	Cellular automata based image authentication scheme using extended visual cryptography	Kukreja S., Kasana G., Kasana S.S.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Computing and Informatics	2019	13359150
2074	Simplified 3D FE analysis of FRP composite bolted joints with laminate tapering	Mandal B., Chakrabarti A.	Mandal, B., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Chakrabarti, A., Indian Institute of Technology, Roorkee Roorkee, Uttarakhand, 247667, India	RINA, Royal Institution of Naval Architects - 6th International Conference on Ship and Offshore Technology, Papers	2019	
2075	Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots	Mishra A., Basu S., Shetti N.P., Reddy K.R., Aminabhavi T.M.	Mishra, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Shetti, N.P., Electrochemistry and Materials Group, Department of Chemistry, K. L. E. Institute of Technology, Hubballi, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW, Australia; Aminabhavi, T.M., Sonia College of Pharmacy, Dharwad, India	Nanoscale Materials in Water Purification	2019	
2076	Secondary metabolites from endophytic fungi and their biological activities	Vasundhara M., Sudhakara Reddy M., Kumar A.	Vasundhara, M., Department of Biotechnology, TIFAC-CORE Building, Thapar Institute of Engineering and Technology, Patiala, India; Sudhakara Reddy, M., Department of Biotechnology, TIFAC-CORE Building, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Department of Biotechnology, TIFAC-CORE Building, Thapar Institute of Engineering and Technology, Patiala, India	New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Secondary Metabolites Biochemistry and Applications	2019	
2077	CFD simulation of 90° pipe bend for multiphase flow of zinc tailing-water slurry	Verma P., Lal K., Singh J.P., Kumar S.	Verma, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147003, India; Lal, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147003, India; Singh, J.P., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147003, India; Kumar, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147003, India	Proceedings of the Thermal and Fluids Engineering Summer Conference	2019	23791748
2078	Experimental study on stability of different nanofluids by using different nanoparticles and basefluids	Sandhu H., Gangacharyulu D., Singh M.K.	Sandhu, H., Chandigarh University, Mohali, Punjab, 140413, India; Gangacharyulu, D., Thapar Institute of Engineering and Technology, Mohali, Punjab, 147001, India; Singh, M.K., Chandigarh University, Mohali, Punjab, 140413, India	Proceedings of the Thermal and Fluids Engineering Summer Conference	2019	23791748
2079	MULTIPLE CRITERIA DECISION MAKING BASED ON FRANK CHOQUET HERONIAN MEAN OPERATOR FOR SINGLE-VALUED NEUTROSOPHIC SETS	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India	Applied and Computational Mathematics	2019	16833511
2080	Design & analysis of improved bustied photovoltaic system for marine ships	Dhiman S., Nijhawan P.	Dhiman, S., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab, India	Indian Journal of Geo-Marine Sciences	2019	25826506
2081	A simple fermentative process for ensuring safety and nutrition of legume and legume wheat based sourdoughs	Batra V., Ghosh M., Ganguli A.	Batra, V., Food Innovation Unit, S. R Enterprises, Baddi, Himachal Pradesh, India; Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Ganguli, A., SSD Projects Conglomerate, PHFI, Gurgaon, India	Quality Assurance and Safety of Crops and Foods	2019	17578361
2082	Rheology of fumed silica and polyethylene glycol shear thickening suspension with nano-clay as an additive	Singh M., Verma S.K., Biswas I., Mehta R.	Singh, M., Thapar University, Department of Chemical Engineering, Patiala, 147 004, India; Verma, S.K., DRDO-Terminal Ballistics Research Laboratory, Chandigarh, 160 030, India; Biswas, I., DRDO-Terminal Ballistics Research Laboratory, Chandigarh, 160 030, India; Mehta, R., Thapar University, Department of Chemical Engineering, Patiala, 147 004, India	Defence Science Journal	2019	0011748X

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2083	Efficiency and stiffness of the single lap bolt joints in glass epoxy composites	Singh J., Singh K., Saini J.S.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Singh, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Defence Science Journal	2019	0011748X
2084	A comparative study on frameworks, MAC layer protocols and open research issues in internet of things	Sharma B., Obaidat M.S., Singh K., Bajaj K.	Sharma, B., Chitkara University, School of Engineering and Technology, Chitkara UniversityHimachal Pradesh, India; Obaidat, M.S., IEEE Fellow, Dean of College of Computing and Informatics, University of Sharjah, United Arab Emirates, KASIT, University of Jordan, Amman, Jordan, University of Science and Technology Beijing, Beijing, China; Singh, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bajaj, K., Chitkara University, School of Engineering and Technology, Chitkara UniversityHimachal Pradesh, India	Ad-Hoc and Sensor Wireless Networks	2019	15519899
2085	A generalization of g–metric spaces and related fixed point theorems	Jain K., Kaur J.	Jain, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Mathematical Inequalities and Applications	2019	13314343
2086	Standoff detection and identification of explosives and hazardous chemicals in simulated real field scenario using time gated raman spectroscopy	Gulati K.K., Gulia S., Gambhir T., Kumar N., Gambhir V., Reddy M.N.	Gulati, K.K., DRDO-Laser Science and Technology Centre, Delhi, 110 054, India; Gulia, S., DRDO-Laser Science and Technology Centre, Delhi, 110 054, India; Gambhir, T., Thapar University, Patiala, 147 003, India; Kumar, N., DRDO-Laser Science and Technology Centre, Delhi, 110 054, India; Gambhir, V., DRDO-Laser Science and Technology Centre, Delhi, 110 054, India; Reddy, M.N., DRDO-Laser Science and Technology Centre, Delhi, 110 054, India	Defence Science Journal	2019	0011748X
2087	Higher order duality of multiobjective constrained ratio optimization problems	Kaur A., Kailey N., Sharma M.K.	Kaur, A., School of Mathematics, Thapar Institute of Engineering and Technology, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, India	Filomat	2019	3545180
2088	Cubic intuitionistic fuzzy sets and its fundamental properties	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Journal of Multiple-Valued Logic and Soft Computing	2019	15423980
2089	A comparative study of dry sliding wear behaviour of sillimanite and rutile reinforced LM27 aluminium alloy composites	Gupta R., Sharma S., Nanda T., Pandey O.P.	Gupta, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Research Express	2019	20531591
2090	Modelling of love-type waves in an elastic layer sandwiched between viscous liquid half space and size dependent couple stress substrate	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Theoretical and Applied Mechanics (Poland)	2019	14292955
2091	Higher-order symmetric duality in nondifferentiable multiobjective optimization over cones	Kailey N., Sonali	Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Sonali, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Filomat	2019	3545180
2092	Modelling creep response of a functionally graded rotating disc with exponential reinforcement gradient	Singh R., Saxena R.K., Khanna K., Gupta V.K.	Singh, R., Department of Mechanical Engg, Punjabi University, Patiala, 147002, India; Saxena, R.K., Department of Mechanical Engg, SLIET, India; Khanna, K., Department of Mechanical Engg, T.I.E.T., Patiala, 147001, India; Gupta, V.K., Department of Mechanical Engg, Punjabi University, Patiala, 147002, India	Materials Today: Proceedings	2019	22147853
2093	Deep learning in the domain of near-duplicate document detection	Roul R.K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	3029743
2094	On some combinatorics of Rogers–Ramanujan type identities using signed color partitions	Gupta V., Rana M.	Gupta, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Current Trends in Mathematical Analysis and its Interdisciplinary Applications	2019	
2095	A new multi-criteria decision making algorithm for medical diagnosis and classification problems using divergence measure of picture fuzzy sets	Thao N.X., Ali M., Nhung L.T., Gianey H.K., Smarandache F.	Thao, N.X., Vietnam National University of Agriculture, Hanoi, Viet Nam; Ali, M., 2Deakin-SWU Joint Research Centre on Big Data, School of Information Technology, Deakin UniversityVIC, Australia; Nhung, L.T., Vietnam National University of Agriculture, Hanoi, Viet Nam; Gianey, H.K., Thapar Institute of Engineering and Technology, Patiala Punjab, India; Smarandache, F., Mathematics Department, University of New Mexico, Gallup, NM, United States	Journal of Intelligent and Fuzzy Systems	2019	10641246

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2096	Interpreting some fifth and sixth order mock theta functions by attaching weights	Sharma S., Rana M.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Journal of the Ramanujan Mathematical Society	2019	9701249
2097	Automatic Road Extraction from Semi Urban Remote Sensing Images	Soni P.K., Rajpal N., Mehta R.	Soni, P.K., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Rajpal, N., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Mehta, R., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Communications in Computer and Information Science	2019	18650929
2098	Preface	Prateek M., Sharma D., Tiwari R., Sharma R., Kumar K., Kumar N.	Prateek, M., University of Petroleum and Energy Studies, Dehradun, India; Sharma, D., University of Petroleum and Energy Studies, Dehradun, India; Tiwari, R., University of Petroleum and Energy Studies, Dehradun, India; Sharma, R., University of Petroleum and Energy Studies, Dehradun, India; Kumar, K., National Institute of Technology SrinagarUttarakhand, India; Kumar, N., Thapar University, Patiala, India	Communications in Computer and Information Science	2019	18650929
2099	Magnetorheological nano-surface-finishing of tapered cavity of chrome steel punch	Thomas A., Singh A.K.	Thomas, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	ASME 2019 14th International Manufacturing Science and Engineering Conference, MSEC 2019	2019	
2100	Synthesis, characterization, adsorption and thermodynamic studies of pure and binary CO ₂ -N ₂ mixtures on oxygen enriched nanostructured carbon adsorbents	Tiwari D., Bhunia H., Bajpai P.K.	Tiwari, D., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala, Punjab 147004, India; Bhunia, H., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala, Punjab 147004, India; Bajpai, P.K., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala, Punjab 147004, India	Brazilian Journal of Chemical Engineering	2019	1046632
2101	Use of unprocessed wood ash as partial replacement of sand in concrete	Siddique R., Singh M., Singhal A.K.	Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Civil Engineering Department, Institute of Engineering and Technology, Chitkara University, Punjab, India; Singhal, A.K., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	ACI Materials Journal	2019	0889325X
2102	PV Based Off-Grid Charging Station for Electric Vehicle	Kumar V., Teja V.R., Singh M., Mishra S.	Kumar, V., Electrical and Instrumentation Engineering Department, TIET, Patiala, 147004, India; Teja, V.R., Electrical and Instrumentation Engineering Department, TIET, Patiala, 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, TIET, Patiala, 147004, India; Mishra, S., Electrical Engineering Department, IIT Delhi, Hauz khas, 110024, India	IFAC-PapersOnLine	2019	24058963
2103	A PFC Rectifier Based EV Charger for Harmonic Reduction	Tiwary A., Singh M., Mishra S.	Tiwary, A., Electrical and Instrumentation Engineering Department, TIET, Patiala, 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, TIET, Patiala, 147004, India; Mishra, S., Electrical Engineering Department, IIT Delhi, Hauz khas, 110024, India	IFAC-PapersOnLine	2019	24058963
2104	Spherical fuzzy soft sets and its applications in decision-making problems	Perveen F., Sunil J.J., Babitha K.V., Garg H.	Perveen, F., Department of Mathematics, National Institute of Technology, Calicut, 673 601, India; Sunil, J.J., Department of Mathematics, National Institute of Technology, Calicut, 673 601, India; Babitha, K.V., Department of Mathematics, Government College, Kasargod, India; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Patiala, 147004, India	Journal of Intelligent and Fuzzy Systems	2019	10641246
2105	An Energy Management and Recommender System for Lighting Control in Internet-of-Energy enabled Buildings	Kaur E., Sharma S., Verma A., Singh M.	Kaur, E., Centre for Energy Studies, Indian Institute of Technology, Delhi, 110016, India; Sharma, S., Centre for Energy Studies, Indian Institute of Technology, Delhi, 110016, India; Verma, A., Centre for Energy Studies, Indian Institute of Technology, Delhi, 110016, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, 147004, India	IFAC-PapersOnLine	2019	24058963
2106	Effective segmentation and classification of tumor on liver MRI and CT images using multi-kernel K-means clustering	Krishan A., Mittal D.	Krishan, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mittal, D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Biomedizinische Technik	2019	135585
2107	A machine learning prediction model for the affinity between glucose and binder	Kondabala R., Kumar V., Ali A.	Kondabala, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Kumar, V., Department of Computer Science and Engineering, National Institute of Technology, Hamirpur, 177005, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, 147004, India	Revue d'Intelligence Artificielle	2019	0992499X
2108	Interval-Valued $\$q\$-Rung Orthopair 2-Tuple Linguistic Aggregation Operators and Their Applications to Decision Making Process$	Wang L., Garg H., Li N.	Wang, L., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Li, N., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China, College of Science, Liaoning Technical University, Fuxin, 123000, China	IEEE Access	2019	21693536
2109	A novel approach for solving all-pairs shortest path problem in an interval-valued fuzzy network	Enayattabr M., Ebrahimnejad A., Motameni H., Garg H.	Enayattabr, M., Department of Computer Engineering, Babol Branch, Islamic Azad University, Babol, Iran; Ebrahimnejad, A., Department of Mathematics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Motameni, H., Department of Computer Engineering, Sari Branch, Islamic Azad University, Sari, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	Journal of Intelligent and Fuzzy Systems	2019	10641246

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2110	XRCC1 632 as a candidate for cancer predisposition via a complex interaction with genetic variants of base excision repair and double strand break repair genes	Singh A., Singh N., Behera D., Sharma S.	Singh, A., Department of Biotechnology, Thapar University, Patiala, Punjab, 147002, India; Singh, N., Department of Pulmonary Medicine, Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Institute of Medical Education and Research (PGIMER), Sector 14, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab, 147002, India	Future Oncology	2019	14796694
2111	Experimental investigation on thermal behavior of fly ash reinforced aluminium alloy (Al6061) hybrid composite	Kushnoore S., Atgur V., Kanigalpula P.K.C., Kamitkar N., Shetty P.	Kushnoore, S., Department of Mechanical Engineering, Koneru Lakshmaiah Educational Foundation, Guntur, Andhra Pradesh, India; Atgur, V., Department of Mechanical Engineering, Koneru Lakshmaiah Educational Foundation, Guntur, Andhra Pradesh, India; Kanigalpula, P.K.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Kamitkar, N., Department of Mechanical Engineering, Koneru Lakshmaiah Educational Foundation, Guntur, Andhra Pradesh, India; Shetty, P., Department of Mechanical Engineering, AITM Bhatkal, Karnataka, India	Journal of Mechanical Engineering and Sciences	2019	22894659
2112	Contemporary technologies and methods for cross-platform application development	Vassallo K., Garg L., Prakash V., Ramesh K.	Vassallo, K., University of Malta, Msida, MSD 2080, Malta; Garg, L., University of Malta, Msida, MSD 2080, Malta; Prakash, V., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ramesh, K., Karnataka State Women's University, Bijapur, Karnataka, 586108, India	Journal of Computational and Theoretical Nanoscience	2019	15461955
2113	Buckling and vibrations of FGM circular plates in thermal environment	Saini R., Saini S., Lal R., Singh I.V.	Saini, R., Indian Institute of Technoogy Roorkee, Roorkee, 247667, India; Saini, S., Thaper Intitute of Engineering and Technology, Patiala, 147004, India; Lal, R., Indian Institute of Technoogy Roorkee, Roorkee, 247667, India; Singh, I.V., Indian Institute of Technoogy Roorkee, Roorkee, 247667, India	Procedia Structural Integrity	2019	24523216
2114	Some new results on expansion mapping and their application	Dhawan P., Kaur J., Gupta V.	Dhawan, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, V., Department of Mathematics, Maharishi Markandeshwar Deemed to Be University, Mullana, Haryana, India	Journal of Intelligent and Fuzzy Systems	2019	10641246
2115	Performance evaluation of time synchronized multi layer-MAC protocol	Khurana M., Jha M.K.	Khurana, M., Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Jha, M.K., DIT University, Dehradun, Uttarakhand 248009, India	Recent Patents on Engineering	2019	18722121
2116	Automated Classification of Hypertension and Coronary Artery Disease Patients by PNN, KNN, and SVM Classifiers Using HRV Analysis	Poddar M.G., Birajdar A.C., Virmani J., Kriti	Poddar, M.G., M.B.E. Society's College of Engineering, Ambajogai, India; Birajdar, A.C., M.B.E. Society's College of Engineering, Ambajogai, India; Virmani, J., CSIR-CSIO, Chandigarh, India; Kriti	Machine Learning in Bio-Signal Analysis and Diagnostic Imaging	2019	
2117	Hybrid approaches for brain tumor detection in MR images	Chahal P.K., Pandey S., Goel S.	Chahal, P.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology Punjab, India; Pandey, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology Punjab, India; Goel, S., Department of Computer Science Engineering, Bennett University, Greater Noida, Delhi, India	Communications in Computer and Information Science	2019	18650929
2118	Data dimensionality reduction (DDR) scheme for intrusion detection system using ensemble and standalone classifiers	Bansal A., Kaur S.	Bansal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Communications in Computer and Information Science	2019	18650929
2119	Detection of brain tumor using machine learning approach	Megha C., Sushma J.	Megha, C., Thapar Institute of Engineering and Technology, Patiala, India; Sushma, J., Thapar Institute of Engineering and Technology, Patiala, India	Communications in Computer and Information Science	2019	18650929
2120	Effect of aggregate type and polymer modification on the performance of bituminous concrete mixes	Singh H., Chopra T., Jain S., Kaur A., Kamotra S.	Singh, H., Ministry of Road Transport and Highway-IIT, Roorkee, India; Chopra, T., Civil Engineering Department, Thapar University, Patiala, India; Jain, S., Amity University, Haryana, India; Kaur, A., Military Engineering Service, Shimla, India; Kamotra, S., Himalayan Institute of Engineering and Technology, India	International Journal of Applied Science and Engineering	2019	17272394
2121	Entropy and distance measures of Pythagorean fuzzy soft sets and their applications	Athira T.M., John S.J., Garg H.	Athira, T.M., Department of Mathematics, National Institute of Technology, Calicut, India; John, S.J., Department of Mathematics, National Institute of Technology, Calicut, India; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University Patiala, Punjab, India	Journal of Intelligent and Fuzzy Systems	2019	10641246
2122	Dairy wastewater treatment in continuous stirred tank electrochemical reactor (CSTER): Parametric optimization and kinetics	Kumari P., Prakash Kushwaha J., Sangal V.K., Singh N.	Kumari, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India; Prakash Kushwaha, J., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India	Environmental Engineering and Management Journal	2019	15829596

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2123	Effect of clusterization algorithm with isospin-dependent nuclear charge radii parameterization on azimuthal angle dependence of elliptical flow	Sangeeta, Kaur V.	Sangeeta, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, V., Department of Physics, GSSDGS Khalsa College, Patiala, 147 001, India	Indian Journal of Pure and Applied Physics	2019	195596
2124	Fission fragmentation analysis of $^{211}\text{At}^*$ nucleus formed in $^{19}\text{F}+^{192}\text{Os}$ reaction	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Indian Journal of Pure and Applied Physics	2019	195596
2125	Structural and thermal properties of Ni-doped SrZrO_3 for solid oxide fuel cells	Kaur P., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	ECS Transactions	2019	19386737
2126	A Novel Two-stage Residual Learning Based Convolutional Neural Network for Image Super Resolution	Sharma S., Bawa V.S., Kumar V.	Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bawa, V.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Fundamenta Informaticae	2019	1692968
2127	Kinetic studies of hydrolysis reaction of NaBH_4 with $\gamma\text{-Al}_2\text{O}_3$ nanoparticles as catalyst promoter and CoCl_2 as catalyst	Kaur A., Gangacharyulu D., Bajpai P.K.	Kaur, A., Thapar University, Department of Chemical Engineering, Patiala, India; Gangacharyulu, D., Thapar University, Department of Chemical Engineering, Patiala, India; Bajpai, P.K., Thapar University, Department of Chemical Engineering, Patiala, India	Brazilian Journal of Chemical Engineering	2019	1046632
2128	Influence of nanoclay on the thermophysical properties and lubricity characteristics of mineral oil	Singh H., Bhowmick H.	Singh, H., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, 147004, India; Bhowmick, H., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, 147004, India	Materials Today: Proceedings	2019	22147853
2129	Electrical circuit model of an aged ceramic humidity sensor	Kumar S., Kumar L., Islam T., Raina K.K.	Kumar, S., Electrical and Instrumentation Engineering Department, Thapar University, patiala, 147004, India; Kumar, L., Department of Physics and Astrophysics, University of Delhi, New Delhi, 110007, India; Islam, T., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, 110025, India; Raina, K.K., School of Physics and Material Science, Thapar University, Patiala, 147004, India	Materials Today: Proceedings	2019	22147853
2130	Descriptive data analysis of real estate using cube technology	Kaur G., Kaur H.	Kaur, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147002, India; Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147002, India	Advances in Intelligent Systems and Computing	2019	21945357
2131	Adaptive reversible data hiding scheme for digital images based on histogram shifting	Kukreja S., Kasana G., Kasana S.S.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Computing and Informatics	2019	13359150
2132	Toxicity prediction of small drug molecules of aryl hydrocarbon receptor using a proposed ensemble model	Gupta V.K., Rana P.S.	Gupta, V.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, P.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Turkish Journal of Electrical Engineering and Computer Sciences	2019	13000632
2133	Ectomycorrhizal diversity and tree sustainability	Khullar S., Sudhakara Reddy M.	Khullar, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications: Volume 2. Soil & Agroecosystems	2019	
2134	Functional Role of CyclinD1 Polymorphism (G870A) in Modifying Susceptibility and Overall Survival of North Indian Lung Cancer Patients	Pandey A., Bahl C., Sharma S., Singh N., Behera D.	Pandey, A., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Bahl, C., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India	Tumori	2019	3008916
2135	Some approximate fixed point theorems without continuity of the operator using auxiliary functions	Chandok S., Ansari A.H., Narang T.D.	Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, P.O. Box 32, Bhadson Road, Patiala, Punjab 147-004, India; Ansari, A.H., Department of Mathematics, Karaj Branch, Islamic Azad University, Imam Ali Complex, Moazen Blvd, Karaj, Tehran, Iran; Narang, T.D., Department of Mathematics, Guru Nanak Dev University, Grand Trunk Road, Off NH 1, Amritsar, Punjab 143005, India	Mathematica Bohemica	2019	8627959

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2136	An efficient and secure authentication scheme for vehicle sensor networks	Zhang J., He D., Kumar N., Raymond Choo K.-K.	Zhang, J., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, India; Raymond Choo, K.-K., Department of Information Systems and Cyber Security, University of Texas at San Antonio, United States	Journal of Internet Technology	2019	16079264
2137	Biogenic treatment improves the durability of steel slag amended mortar structures	Reddy M.S., Kaur P., Joshi S., Shinde O.A.	Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Joshi, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Shinde, O.A., Environment Research Group, Tata Steel Limited, R and D and Scientific Services Department, Jamshedpur, 831 007, India	Sustainable Construction Materials and Technologies	2019	25153048
2138	Development and performance analysis of semi-automatic movement setup for planar welding	Kumar V., Bera T.K., Bhattacharya A.	Kumar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bhattacharya, A., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar, India	Materials and Manufacturing Processes	2019	10426914
2139	Toxic emissions of Polycyclic Aromatic Hydrocarbons [Py and B(k)F] in ambient air due to CRB activities at rural and commercial locations in Patiala, India	Singh N., Mittal S., Agarwal R., Gupta P.K., Awasthi A.	Singh, N., Department of Chemistry, Maharishi Markandeshwar (Deemed to be University), Mullana, India; Mittal, S., School of Chemistry and Biochemistry, Thapar University, Patiala, India; Agarwal, R., USIC, Thapar University, Patiala, India; Gupta, P.K., National Physical Laboratory (CSIR), New Delhi, India; Awasthi, A., Department of Physics, University of Petroleum and Energy Studies, Dehradun, India	Materials Today: Proceedings	2019	22147853
2140	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt	Salih S.Q., Allawi M.F., Yousif A.A., Armanuos A.M., Saggi M.K., Ali M., Shahid S., Al-Ansari N., Yaseen Z.M., Chau K.-W.	Salih, S.Q., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Allawi, M.F., Department of Civil Engineering, Al-Esraa University College, Baghdad, Iraq; Yousif, A.A., Water Resources Engineering Department, College of Engineering, University of Duhok, Duhok, Iraq; Armanuos, A.M., Irrigation and Hydraulics Engineering Department, Civil Engineering Department, Faculty of Engineering, Tanta University, Tanta, Egypt; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Ali, M., Deakin-SWU Joint Research Centre on Big Data, School of Information Technology, Deakin UniversityVIC 3125, Australia; Shahid, S., School of Civil Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), Johor Bahru, 81310, Malaysia; Al-Ansari, N., Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, Lulea, 97187, Sweden; Yaseen, Z.M., Sustainable Developments in Civil Engineering Research Group, Faculty of Civil Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Chau, K.-W., Department of Civil and Environmental Engineering, Hong Kong Polytechnic University, Hong Kong	Engineering Applications of Computational Fluid Mechanics	2019	19942060
2141	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions	Jing W., Yaseen Z.M., Shahid S., Saggi M.K., Tao H., Kisi O., Salih S.Q., Al-Ansari N., Chau K.-W.	Jing, W., Department of Computer Science, Baoji University of Arts and Sciences, Shaanxi, China, Faculty of Computer Systems & Software Engineering, University Malaysia Pahang, Pahang, Malaysia; Yaseen, Z.M., Sustainable Developments in Civil Engineering Research Group, Faculty of Civil Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Shahid, S., School of Civil Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), Johor Bahru, Malaysia; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Tao, H., Department of Computer Science, Baoji University of Arts and Sciences, Shaanxi, China; Kisi, O., Faculty of Natural Sciences and Engineering, Ilia State University, Tbilisi, Georgia; Salih, S.Q., Institute of Research and Development, Duy Tan University, Da Nang, Viet Nam, Computer Science Department, College of Computer Science and Information Technology, University of Anbar, Ramadi, Iraq; Al-Ansari, N., Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, Lulea, Sweden; Chau, K.-W., Department of Civil and Environmental Engineering, Hong Kong Polytechnic University, Hong Kong	Engineering Applications of Computational Fluid Mechanics	2019	19942060
2142	R type functions and coincidence points	Chandok S., Radenović S.	Chandok, S., Nonlinear Analysis Research Group, Ton Duc Thang University, Ho Chi Minh City, Vietnam.Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Radenović, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Applied Mathematics E - Notes	2019	16072510
2143	Using a digital storage oscilloscope to visualise the induced EMF of a magnet passing through a solenoid	Singh I., Kaur B.	Singh, I., P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physics Education	2019	319120
2144	Smart Learning System Based on EEG Signals	Sharma A., Gupta S., Kaur S., Kumar P.	Sharma, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Communications in Computer and Information Science	2019	18650929

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2145	Temperature-controlled synthesis of N-acyl anthranilamides and quinazoline-4ones via Pd-catalysed cascade consisting of isocyanide insertion	Khan I., Singh J., Khan I., Dutt S., Khan S., Tyagi V.	Khan, I., Coordination Chemistry Laboratory, Department of Chemistry, Mohan Lal Sukhadia University, Udaipur, Rajasthan, India; Singh, J., Department of Pharmacy, Dr. B. R. Ambedkar University, Agra, 282002, India; Khan, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Dutt, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khan, S., Department of Chemistry, Bhupal Nobles University, Udaipur, Rajasthan, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arkivoc	2019	15517004
2146	Bacterial foraging algorithm and its applications: A brief review and future directions	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training & Research, Kolkata, West Bengal, India	Journal of Advanced Research in Dynamical and Control Systems	2019	1943023X
2147	Computational intelligence technique for prediction of multiple sclerosis based on serum cytokines	Goyal M., Khanna D., Rana P.S., Khaibullin T., Martynova E., Rizvanov A.A., Khaiboullina S.F., Baranwal M.	Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khaibullin, T., Republican Clinical Neurological Center, Republic of Tatarstan, Russian Federation, Kazan, Russian Federation; Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Khaiboullina, S.F., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation, Department of Microbiology and Immunology, University of Nevada, Reno, NV, United States; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Neurology	2019	16642295
2148	Development and performance evaluation of sintered tool tip while EDMing of hardened steel	Walia A.S., Jain V., Srivastava V.	Walia, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Research Express	2019	20531591
2149	Benchmark Datasets for Offline Handwritten Gurmukhi Script Recognition	Kumar M., Sharma R.K., Jindal M.K., Jindal S.R., Singh H.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Sharma, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, M.K., Department of Computer Science and Applications, Panjab University Regional Centre, Muksar, Punjab, India; Jindal, S.R., Department of Computer Science and Engineering, Yadavindra College of Engineering, Talwandi Sabo, Bathinda, Punjab, India; Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Communications in Computer and Information Science	2019	18650929
2150	A hybrid deep learning-based model for anomaly detection in cloud datacenter networks	Garg S., Kaur K., Kumar N., Kaddoum G., Zomaya A.Y., Ranjan R.	Garg, S., Electrical Engineering Department, Ecole de Technologie Supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Kaur, K., Electrical Engineering Department, Ecole de Technologie Supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Kaddoum, G., Electrical Engineering Department, Ecole de Technologie Supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Zomaya, A.Y., School of Computer Science, University of Sydney, Sydney, NSW 2006, Australia; Ranjan, R., School of Computing, Newcastle University, Newcastle upon Tyne, NE4 5TG, United Kingdom, School of Computer, China University of Geosciences, Wuhan, 430074, China	IEEE Transactions on Network and Service Management	2019	19324537
2151	A note on 'Transportation problem under interval-valued intuitionistic fuzzy environment'	Mishra A., Kumar A., Khan M.A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, Punjab, India; Khan, M.A., Department of Mathematics, University of Tabuk, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2019	10641246
2152	A novel method for solving the fully neutrosophic linear programming problems: Suggested modifications	Singh A., Kumar A., Appadoo S.S.	Singh, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, Punjab, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, 630 Drake Centre - 181 Freedman Crescent, Winnipeg, MB R3T 5V4, Canada	Journal of Intelligent and Fuzzy Systems	2019	10641246
2153	Annealing temperature optimization for highly sensitive ZnO based acetone gas sensor	Deshwal M., Arora A.	Deshwal, M., Electronics and Communication Engineering Department, Chandigarh University, Mohali, 140 413, India; Arora, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Indian Journal of Pure and Applied Physics	2019	195596
2154	A note on some recent results of the conformable derivative	Birgani O.T., Chandok S., Dedović N., Radenović S.	Birgani, O.T., School of Mathematics, Iran University of Science and Technology, Tehran, Iran; Chandok, S., School of Mathematics, Thapar University, Patiala, 147004, India; Dedović, N., Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia; Radenović, S., Department of Mathematics, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia	Advances in the Theory of Nonlinear Analysis and its Applications	2019	25872648

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2155	Design and analysis of capacitive micromachined ultrasonic transducer	Sharma R., Agarwal R., Dubey A.K., Arora A.	Sharma, R., Department of Electronics and Communication Engineering, GGSIPU, New Delhi, India; Agarwal, R., Department of Electronics and Communication Engineering, GGSIPU, New Delhi, India; Dubey, A.K., Department of Electronics and Communication Engineering, Amity University, Noida, India; Arora, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	Recent Patents on Engineering	2019	18722121
2156	Performance evaluation of threshold-based and k-means clustering algorithms using iris dataset	Mittal M., Sharma R.K., Singh V.P.	Mittal, M., Department of Computer Science & Engineering, G. B. Pant Govt. Engineering College, Okhla, New Delhi, India; Sharma, R.K., Department of Computer Science & Engineering, Thapar University, Patiala, Punjab, India; Singh, V.P., Department of Computer Science & Engineering, Thapar University, Patiala, Punjab, India	Recent Patents on Engineering	2019	18722121
2157	Multiattribute decision making based on power operators for linguistic intuitionistic fuzzy set using set pair analysis	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, India	Expert Systems	2019	2664720
2158	Optimal solution of structural engineering design problems using crow search algorithm	Agarwal M.	Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India	International Journal of Mathematical, Engineering and Management Sciences	2019	24557749
2159	Zero-power consuming intruder identification system by enhanced piezoelectricity of K _{0.5} Na _{0.5} NbO ₃ using substitutional doping of BTO NPs	Vivekananthan V., Alluri N.R., Chandrasekhar A., Purusothaman Y., Gupta A., Kim S.-J.	Vivekananthan, V., Nanomaterials and System Lab, Department of Mechatronics Engineering, Jeju National University, Ara-1-Dong, Jeju-Si Jeju-Do Jeju, 63243, South Korea; Alluri, N.R., Nanomaterials and System Lab, Department of Mechatronics Engineering, Jeju National University, Ara-1-Dong, Jeju-Si Jeju-Do Jeju, 63243, South Korea; Chandrasekhar, A., Nanomaterials and System Lab, Department of Mechatronics Engineering, Jeju National University, Ara-1-Dong, Jeju-Si Jeju-Do Jeju, 63243, South Korea, Nano Sensors and Nano Energy Lab, Department of Sensors and Biomedical Technology, Vellore Institute of Technology, Vellore, India; Purusothaman, Y., Nanomaterials and System Lab, Department of Mechatronics Engineering, Jeju National University, Ara-1-Dong, Jeju-Si Jeju-Do Jeju, 63243, South Korea; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kim, S.-J., Nanomaterials and System Lab, Department of Mechatronics Engineering, Jeju National University, Ara-1-Dong, Jeju-Si Jeju-Do Jeju, 63243, South Korea	Journal of Materials Chemistry C	2019	20507534
2160	Critical success factors of agri-business incubators and their impact on business	Bose S.C., Kiran R., Goyal D.	Bose, S.C., School of Humanities & Social Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kiran, R., School of Humanities & Social Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goyal, D., Thapar Science and Technology Park and Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Custos e Agronegocio	2019	18082882
2161	Metadherin: A therapeutic target in multiple cancers	Dhiman G., Srivastava N., Goyal M., Rakha E., Lothion-Roy J., Mongan N.P., Miftakhova R.R., Khaiboullina S.F., Rizvanov A.A., Baranwal M.	Dhiman, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Rakha, E., Faculty of Medicine and Health Sciences, School of Medicine, University of Nottingham, Nottingham, United Kingdom; Lothion-Roy, J., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, University of Nottingham, Nottingham, United Kingdom; Mongan, N.P., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, University of Nottingham, Nottingham, United Kingdom; Miftakhova, R.R., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Khaiboullina, S.F., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Oncology	2019	2234943X
2162	A topological structure involving hesitant fuzzy sets	Deepak D., Mathew B., John S.J., Garg H.	Deepak, D., TKM College of Engineering, Kollam, India; Mathew, B., National Institute of Technology, Calicut, Kozhikode, India; John, S.J., National Institute of Technology, Calicut, Kozhikode, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Intelligent and Fuzzy Systems	2019	10641246
2163	Commentary on "a reply to a note on the paper "a simplified novel technique for solving fully fuzzy linear programming problems""	Kaur A., Kumar A., Appadoo S.S.	Kaur, A., School of Mathematics, Thapar Institute of Engineering Technology, Deemed to Be University, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering Technology, Deemed to Be University, Patiala, Punjab, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Winnipeg, MB R3T5V4, Canada	Journal of Intelligent and Fuzzy Systems	2019	10641246
2164	Design of a patch antenna with square ring-shaped-coupled ground for on-/off body communication	Gupta A., Kansal A., Chawla P.	Gupta, A., Electronics and Communication Engineering Department (ECED), Thapar University, Patiala, India; Kansal, A., Electronics and Communication Engineering Department (ECED), Thapar University, Patiala, India; Chawla, P., Electronics and Communication Engineering Department (ECED), Chandigarh University, Mohali, India	International Journal of Electronics	2019	207217
2165	A Stacked Hollow Low-Profile Dielectric Resonator Antenna with Wide Bandwidth and Enhanced Gain	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khanna, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2019	18761100

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2166	A unified framework for behaviour monitoring and abnormality detection for smart home	Grewal A., Kaur M., Park J.H.	Grewal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala (Punjab), India; Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala (Punjab), India; Park, J.H., Department of Computer Science and Engineering, Seoul National University of Science and Technology (SeoulTech), Seoul, 01811, South Korea	Wireless Communications and Mobile Computing	2019	15308669
2167	New operations on interval-valued picture fuzzy set, interval-valued picture fuzzy soft set and their applications	Khalil A.M., Li S.-G., Garg H., Li H., Ma S.	Khalil, A.M., College of Mathematics and Information Science, Shaanxi Normal University, Xi'an, 710062, China, Department of Mathematics, Faculty of Science, Al-Azhar University, Asyut, 71524, Egypt; Li, S.-G., College of Mathematics and Information Science, Shaanxi Normal University, Xi'an, 710062, China; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Patiala, 147004, India; Li, H., School of Mathematics and Statistics, Longdong University, Qingyang, 745000, China; Ma, S., College of Information Science and Technology, Hainan Normal University, Haikou, 571158, China	IEEE Access	2019	21693536
2168	Activity assessment of small drug molecules in estrogen receptor using multilevel prediction model	Gupta V.K., Rana P.S.	Gupta, V.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Systems Biology	2019	17518849
2169	Colloidal stability of Mn1-xZnxFe2O4 nanoparticles in transformer oil: Role of Zn substitution	Kaur N., Chudasama B.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Micro and Nano Letters	2019	17500443
2170	A face recognition system using off-the-shelf feature extractors and an Ad-Hoc classifier	Marsi S., De Bortoli L., Guzzi F., Bhattacharya J., Cicala F., Carrato S., Canziani A., Ramponi G.	Marsi, S., University of Trieste, Trieste, Italy; De Bortoli, L., University of Trieste, Trieste, Italy; Guzzi, F., University of Trieste, Trieste, Italy; Bhattacharya, J., Thapar Institute of Engineering and Technology, Patiala, India; Cicala, F., University of Trieste, Trieste, Italy; Carrato, S., University of Trieste, Trieste, Italy; Canziani, A., New York University, New York City, NY, United States; Ramponi, G., University of Trieste, Trieste, Italy	Lecture Notes in Electrical Engineering	2019	18761100
2171	Performance and emission analysis of a C.I. engine using ethanol and its blends with Jojoba biodiesel and diesel as a fuel	Singh A., Singh S., Singla V., Singh V.	Singh, A., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India; Singh, S., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India; Singla, V., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India; Singh, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Mechanical Engineering	2019	21954356
2172	Pseudo cavity of Schiff base ionophore incorporated in screen printed electrode for sensing of Zn (II)	Rana S., Mittal S.K., Kaur N., Banks C.E.	Rana, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, N., Department of Chemistry, Panjab University, Chandigarh, Punjab, 160014, India; Banks, C.E., School of Chemistry and the Environment, Manchester Metropolitan University, Manchester, M1 5GD, United Kingdom	Journal of the Electrochemical Society	2019	134651
2173	Electro-catalytic oxidation of ofloxacin antibiotic in continuous reactor: Evaluation, transformation products and pathway	Kaur R., Kushwaha J.P., Singh N.	Kaur, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kushwaha, J.P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, N., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of the Electrochemical Society	2019	134651
2174	The usage of Ricinus communis as a natural adsorbent for removal of dyes from an aqueous solution	Mahajan A., Sohpal V.K., Bulasara V.K.	Mahajan, A., Department of Chemical Engineering and Biotechnology, BCET, Gurdaspur, 143 521, India; Sohpal, V.K., Department of Chemical Engineering and Biotechnology, BCET, Gurdaspur, 143 521, India; Bulasara, V.K., Department of Chemical Engineering, Thapar University Patiala 147 001, India	Journal of Chemical Technology and Metallurgy	2019	13147471
2175	Synthesis and: In vitro evaluation of naphthalimide-benzimidazole conjugates as potential antitumor agents	Singh I., Luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India; Paul, K., School of Chemistry and Biochemistry, Thapar University, Patiala, 147 004, India	Organic and Biomolecular Chemistry	2019	14770520
2176	Context-aware automation based energy conservation techniques for IoT ecosystem	Mangla M., Akhare R., Ambarkar S.	Mangla, M., Thapar University, Patiala, India, LTCoE, Navi Mumbai, India; Akhare, R., LTCoE, Navi Mumbai, India; Ambarkar, S., University of Mumbai, Mumbai, India, LTCoE, Navi Mumbai, India	Studies in Systems, Decision and Control	2019	21984182
2177	Optimization of thickness of pavement quality concrete slab using rice husk ash	Singh P., Kaur M.	Singh, P., Lovely Professional University, Punjab, India; Kaur, M., University of Thapar, India	Indian Concrete Journal	2019	194565
2178	Performance of Different Inert Gases in Production of Fuel Grade Ethanol by Diffusion Distillation	Neetu Singh, Jai Prakash Kushwaha	Neetu Singh, Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Jai Prakash Kushwaha, Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Theoretical Foundations of Chemical Engineering	2019	405795

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2179	Reduced device count version of single-stage switched-capacitor module for cascaded multilevel inverters	Bhatnagar P., Agrawal R., Gupta K.K.	Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Agrawal, R., Department of Electrical and Electronics Engineering, Sagar Institute of Science and Technology, Bhopal, India; Gupta, K.K., School of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IET Power Electronics	2019	17554535
2180	A process-tolerant low-power adder architecture for image processing applications	Garg B., Sharma G.K.	Garg, B., Electronics and Communication Engineering, Faculty of Engineering, Thapar University, Patiala, India; Sharma, G.K., ABV-Indian Institute of Information Technology and Management, Gwalior, India	Turkish Journal of Electrical Engineering and Computer Sciences	2019	13000632
2181	Fuzzy string matching algorithm for spam detection in twitter	Kumar A., Singh M., Pais A.R.	Kumar, A., Information Security Research Lab, Department of Computer Science and Engineering, National Institute of Technology Karnataka, Surathkal, Karnataka, India; Singh, M., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Pais, A.R., Information Security Research Lab, Department of Computer Science and Engineering, National Institute of Technology Karnataka, Surathkal, Karnataka, India	Communications in Computer and Information Science	2019	18650929
2182	IP traceback in dynamic networks	Roy S., Chawla H., Sairam A.S.	Roy, S., Thapar University, Patiala, Punjab, India; Chawla, H., Thapar University, Patiala, Punjab, India; Sairam, A.S., Indian Institute of Technology Guwahati, Guwahati, Assam, India	Communications in Computer and Information Science	2019	18650929
2183	Justification of technology innovation implementation in Indian MSMEs using AHP	Singh D., Khamba J.S., Nanda T.	Singh, D., Mechanical Engineering Department, Punjabi University, Patiala, India; Khamba, J.S., Mechanical Engineering Department, Punjabi University, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar University, Patiala, India	International Journal of Services and Operations Management	2019	17442370
2184	No-reference image quality assessment based on distortion specific and natural scene statistics based parameters: A hybrid approach	Bagade J.V., Singh K., Dandawate Y.H.	Bagade, J.V., Department of Computer Science, Thapar University, Patiala Punjab, India; Singh, K., Department of Electronics and Telecommunication, Thapar University, Patiala, Punjab, India; Dandawate, Y.H., Department of Electronics and Telecommunication, Vishwakarma Institute of Information Technology, Pune, Maharashtra, India	Malaysian Journal of Computer Science	2019	1279084
2185	Modeling of erosion wear of sand water slurry flow through pipe bend using CFD	Singh V., Kumar S., Mohapatra S.K.	Singh, V., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., National Institute of Technology, Jamshedpur, India; Mohapatra, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Applied Fluid Mechanics	2019	17353572
2186	Experimental design-based analysis on process parameters for head loss in pipe bend	Singh J.P., Kumar S., Mohapatra S.K., Nandan G.	Singh, J.P., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., National Institute of Technology, Jamshedpur, Jharkhand, India; Mohapatra, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nandan, G., Amity University, Noida, Uttar Pradesh, India	Lecture Notes in Mechanical Engineering	2019	21954356
2187	Numerical analysis on variations of thermal and hydrological properties during water flow through unsaturated soil	Singh M., Singh C., Gangacharyulu D.	Singh, M., Chandigarh Engineering College, Mohali, Punjab, India; Singh, C., Mechanical Engineering Department, Punjabi University, Patiala, Punjab, India; Gangacharyulu, D., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Mechanical Engineering	2019	21954356
2188	Pool boiling using nanofluids: A review	Krishn S., Goyal M., Nandan G., Kumar S., Kumar P., Shukla A.K.	Krishn, S., ASET, Amity University, Noida, Uttar Pradesh, India; Goyal, M., ASET, Amity University, Noida, Uttar Pradesh, India; Nandan, G., ASET, Amity University, Noida, Uttar Pradesh, India; Kumar, S., ME Department, Thapar University, Patiala, Punjab, India; Kumar, P., NIT Jamshedpur, Jamshedpur, Jharkhand, India; Shukla, A.K., ASET, Amity University, Noida, Uttar Pradesh, India	Lecture Notes in Mechanical Engineering	2019	21954356
2189	Experimental investigation of mechanical strength and temperature of friction stir welded joint	Kundu J., Kosti S., Kumar M., Rattan N., Ghangas G., Sharma S.K.	Kundu, J., Jorhat Engineering College, Jorhat, Assam 786007, India; Kosti, S., Rajkiya Engineering College Banda, Banda, Uttar Pradesh 210201, India; Kumar, M., National Institute of Technology Kurukshetra, Kurukshetra, 136119, India; Rattan, N., Women Institute of Technology, Dehradun, 248007, India; Ghangas, G., Panipat Institute of Engineering and Technology, Panipat, 132102, India; Sharma, S.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2019	21954356
2190	Study of MRR and TWR in electric discharge machining of AISI D2 tool steel	Payal H., Sharma S.K., Aakash, Ashish kumar, Avinash kumar, Himanshu	Payal, H., Department of Mechanical Engineering, Sharda University, Greater Noida, 201310, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Aakash, MPAAE Division, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Ashish kumar, MPAAE Division, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Avinash kumar, MPAAE Division, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Himanshu, MPAAE Division, Netaji Subhas Institute of Technology, New Delhi, 110078, India	Lecture Notes in Mechanical Engineering	2019	21954356
2191	A Secure and Privacy Preserving Partial Deterministic RWP Model to Reduce Overlapping in IoT Sensing Environment	Sanwar Hosen A., Singh S., Mariappan V., Kaur M., Hwan Cho G.	Sanwar Hosen, A., Division of Computer Science and Engineering, Chonbuk National University, Jeonju, 54896, South Korea; Singh, S., Division of Computer Science and Engineering, Chonbuk National University, Jeonju, 54896, South Korea; Mariappan, V., RD Department, VeNMSOL Technologies, Chennai, India; Kaur, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Punjab, 147004, India; Hwan Cho, G., Division of Computer Science and Engineering, Chonbuk National University, Jeonju, 54896, South Korea	IEEE Access	2019	21693536
2192	Adaptive protection methodology in microgrid for fault location and nature detection using q0 components of fault current	Singh M., Basak P.	Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology University, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology University, Patiala, India	IET Generation, Transmission and Distribution	2019	17518687

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2193	RTD Measurement, Modeling, and Analysis of Liquid Phase of Three-Tube Industrial Pulp Digester	Sheoran M., Chandra A., Ahuja S., Bhunia H., Pant H.J.	Sheoran, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Pant, H.J., Isotope Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	International Journal of Chemical Reactor Engineering	2019	15426580
2194	Pediatric irritable Bowel Syndrome prediction using 2 - tier ensemble classifier	Kaur M., Jat A., Ajith R.	Kaur, M., Thapar Institute of Engineering and Technology, Patiala, India; Jat, A., Thapar Institute of Engineering and Technology, Patiala, India; Ajith, R., Faculty of Medicine, Vilnius University, Vilnius, Lithuania	International Journal of Computer Information Systems and Industrial Management Applications	2019	21507988
2195	Investigation into cloud computing adoption within the hedge fund industry	Cole T., Bhardwaj A.K., Garg L., Shrivastava D.P.	Cole, T., University of Liverpool, Liverpool, United Kingdom; Bhardwaj, A.K., Thapar University, Dera Bassi, India; Garg, L., University of Malta, Msida, Malta; Shrivastava, D.P., Higher Colleges of Technology, Dubai, United Arab Emirates	Journal of Cases on Information Technology	2019	15487717
2196	Removal of pharmaceutical contaminants in wastewater using nanomaterials: A comprehensive review	Chauhan A., Sillu D., Agnihotri S.	Chauhan, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sillu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Current Drug Metabolism	2019	13892002
2197	Study of Degradation of Pharmaceutical Drug Cetirizine Using TiO2 Photocatalysis	Talwar S., Chaudhary P., Sangal V.K., Verma A.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chaudhary, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Civil Engineering	2019	23662557
2198	Comparative Study on the Photocatalytic Degradation of Paraquat Using Tungsten-Doped TiO2 Under UV and Sunlight	Kaur M., Verma A., Setia H., Toor A.P.	Kaur, M., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Setia, H., University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India; Toor, A.P., Dr SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India	Lecture Notes in Civil Engineering	2019	23662557
2199	TiO2-Assisted Photocatalytic Degradation of Herbicide 4-Chlorophenoxyacetic Acid: Slurry and Fixed-Bed Approach	Verma A., Toor A.P., Bansal P., Sangal V., Sobti A.	Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Toor, A.P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sobti, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Civil Engineering	2019	23662557
2200	Photocatalytic Activity of Bi-doped TiO2 for Phenol Degradation Under UV and Sunlight Conditions	Singh R., Kumar V., Verma A., Sobti A., Toor A.P.	Singh, R., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Kumar, V., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Sobti, A., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Toor, A.P., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India	Lecture Notes in Civil Engineering	2019	23662557
2201	Correction to: Autophagy inhibition with chloroquine reverts paclitaxel resistance and attenuates metastatic potential in human nonsmall lung adenocarcinoma A549 cells via ROS mediated modulation of β -catenin pathway (Apoptosis, (2019), 10.1007/s10495-019-01526-y)	Datta S., Choudhury D., Das A., Mukherjee D.D., Dasgupta M., Bandopadhyay S., Chakrabarti G.	Datta, S., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Das, A., Department of Chemistry, National Institute of Technology, Ravangla, Sikkim 737139, India; Mukherjee, D.D., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India; Dasgupta, M., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India; Bandopadhyay, S., Cell Biology & Physiology Division, CSIR – Indian Institute of Chemical Biology, Kolkata, 700032, India; Chakrabarti, G., Department of Biotechnology and Dr. B. C. Guha Centre for Genetic Engineering and Biotechnology, University of Calcutta, 35 Ballygunge Circular Road, Ballygunge, Kolkata, West Bengal 700 019, India	Apoptosis	2019	13608185
2202	Adaptive threshold based clustering a deterministic partitioning approach	Mittal M., Sharma R.K., Singh V.P., Kumar R.	Mittal, M., Department of Computer Science and Engineering, G. B. Pant Govt. Engineering College, New Delhi, India; Sharma, R.K., Thapar University, Patiala, India; Singh, V.P., Thapar University, Patiala, India; Kumar, R., Department of Computer Science and Engineering, LNCT College, Indore, India	International Journal of Information System Modeling and Design	2019	19478186

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2203	Geometrical attack classification using DCNN and forgery localization using machine learning	Thakur A., Jindal N.	Thakur, A., Department of Electronics and Communication, Thapar Institute of Engineering and Information Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication, Thapar Institute of Engineering and Information Technology, Patiala, Punjab, India	International Journal of Recent Technology and Engineering	2019	22773878
2204	Coagulation attacks over networked uavs: Concept, challenges, and research aspects	Sharma V., Kumar R., Srinivasan K., Jayakody D.N.K.	Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Srinivasan, K., Department of Computer Science and Information Engineering, National Ilan University, Yilan County, Taiwan; Jayakody, D.N.K., Department of Software Engineering, Institute of Cybernetics, National Research Tomsk Polytechnic University, Russian Federation	International Journal of Advanced Trends in Computer Science and Engineering	2019	22783091
2205	Image segmentation and semantic labeling using machine learning	Thakur A., Ranjan R.	Thakur, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ranjan, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Recent Technology and Engineering	2019	22773878
2206	D-MSEP: Distance Incorporated Modified Stable Election Protocol in Heterogeneous Wireless Sensor Network	Singh A., Saini H.S., Kumar N.	Singh, A., Indo Global College of Engineering, Chandigarh, Punjab, India; Saini, H.S., Indo Global College of Engineering, Chandigarh, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	Lecture Notes in Networks and Systems	2019	23673370
2207	EFF-FAS: Enhanced fruit fly optimisation based search and tracking by flying ad hoc swarm	Sharma V., Sabatini R., Ramasamy S., Srinivasan K., Kumar R.	Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; Sabatini, R., School of Engineering, Aerospace Engineering and Aviation Discipline, RMIT University, Melbourne, VIC 3001, Australia; Ramasamy, S., School of Engineering, Aerospace Engineering and Aviation Discipline, RMIT University, Melbourne, VIC 3001, Australia; Srinivasan, K., School of Information Technology and Engineering, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, 632 014, India; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	International Journal of Ad Hoc and Ubiquitous Computing	2019	17438225
2208	Implementing Multidimensional Analytics in NRIs Directory Databases	Kaur H., Singh K., Kaur T.	Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Singh, K., University Computer Center, Punjabi University, Patiala, India; Kaur, T., Center for Diaspora Studies, Punjabi University, Patiala, India	Lecture Notes in Networks and Systems	2019	23673370
2209	Utility of OLAP and Digital ATLAS to Enhance Cross-Border Connectivity among Punjabi Sikh NRIs	Kaur H., Singh K., Kaur T.	Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Singh, K., University Computer Center, Punjabi University, Patiala, India; Kaur, T., Center for Diaspora Studies, Punjabi University, Patiala, India	Lecture Notes in Networks and Systems	2019	23673370
2210	Review of Machine Learning Techniques for Optimizing Energy of Home Appliances	Kaur J., Bala A.	Kaur, J., Thapar University, Patiala, PB 147004, India; Bala, A., Thapar University, Patiala, PB 147004, India	Lecture Notes in Networks and Systems	2019	23673370
2211	Comparative Analysis of Unstacked and Stacked Bow-Tie Antenna Structures for Wireless Applications	Laxmi K., Kaur A.	Laxmi, K., Department of Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2019	23673370
2212	A Critical Review of Routing Protocols for VANETs	Mittal N., Singh A.	Mittal, N., Thapar University, Patiala, India; Singh, A., Thapar University, Patiala, India	Lecture Notes in Networks and Systems	2019	23673370
2213	On the security of authenticated group key agreement protocols	Bala S., Sharma G., Bansal H., Bhatia T.	Bala, S., Université Libre de Bruxelles, Belgium; Sharma, G., Université Libre de Bruxelles, Belgium; Bansal, H., Jaypee Institute of Information Technology, Noida, India; Bhatia, T., Thapar University, India	Scalable Computing	2019	18951767
2214	Experimental validation of a frequency-selective surface-loaded hybrid metamaterial absorber with wide bandwidth	Sharma A., Panwar R., Khanna R.	Sharma, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Panwar, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, 482005, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	IEEE Magnetics Letters	2019	1949307X
2215	Numerical investigations of ellipsoid shaped filler on heat transport behavior of reinforced polymer composites	Singh S., Singla R.K., Jain D.	Singh, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Jain, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Lecture Notes in Networks and Systems	2019	23673370
2216	Adomian decomposition method for thermal analysis of a Furnace	Goyal K., Singhal M.	Goyal, K., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singhal, M., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Lecture Notes in Networks and Systems	2019	23673370
2217	Effect of heat treatment on the wear behavior of zircon reinforced aluminium matrix composites	Sharma S., Kumar S., Nanda T., Pandey O.P.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, S., Terminal Ballistics Research Laboratory (TBRL), DRDO, Chandigarh, 160003, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Research Express	2019	20531591

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2218	On the power of two-way multihead quantum finite automata	Bhatia A.S., Kumar A.	Bhatia, A.S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India	RAIRO - Theoretical Informatics and Applications	2019	28047346
2219	Scene perception system for visually impaired based on object detection and classification using multimodal deep convolutional neural network	Kaur B., Bhattacharya J.	Kaur, B., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Patiala, Punjab, India; Bhattacharya, J., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Patiala, Punjab, India	Journal of Electronic Imaging	2019	10179909
2220	Insulin Promotes Wound Healing by Inactivating NFκB P50/P65 and Activating Protein and Lipid Biosynthesis and alternating Pro/Anti-inflammatory Cytokines Dynamics	Kaur P., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Biomolecular Concepts	2019	18685021
2221	A novel divergence measure and its based TOPSIS method for multi criteria decision-making under single-valued neutrosophic environment	Nancy, Garg H.	Nancy, School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	Journal of Intelligent and Fuzzy Systems	2019	10641246
2222	Mixed integer programming for vehicle routing problem with time windows	Aggarwal D., Kumar V.	Aggarwal, D., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147001, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147001, India	International Journal of Intelligent Systems Technologies and Applications	2019	17408865
2223	Lagrangian relaxation for distribution networks with cross-docking centre	Bhangu M.S., Anand R., Kumar V.	Bhangu, M.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147001, India; Anand, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147001, India; Kumar, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147001, India	International Journal of Intelligent Systems Technologies and Applications	2019	17408865
2224	An efficient update strategy for content synchronization in Content-Centric Networking (CCN)	Lal N., Kumar S., Chaurasiya V.K.	Lal, N., Thapar University, Patiala, Punjab 147004, India; Kumar, S., IIT Allahabad, Prayagraj, 211015, India; Chaurasiya, V.K., IIT Allahabad, Prayagraj, 211015, India	China Communications	2019	16735447
2225	Discussion of "analysis of passive earth pressure modification due to seepage flow effects"	Ganesh R.	Ganesh, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Canadian Geotechnical Journal	2019	83674
2226	'Carpal tunnel syndrome:' A bibliometric study of 35 years of research	Ram S.	Ram, S., Central Library, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India	Neurology India	2019	283886
2227	IoT-based solid waste management solutions: A survey	Pardini K., Rodrigues J.J.P.C., Kozlov S.A., Kumar N., Furtado V.	Pardini, K., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí, MG 37540-000, Brazil; Rodrigues, J.J.P.C., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí, MG 37540-000, Brazil, Covilhã Delegation, Instituto de Telecomunicações, Lisbon, 1049-001, Portugal, Photonics and Optoinformatics Department, ITMO University, St. Petersburg, 197101, Russian Federation; Kozlov, S.A., Photonics and Optoinformatics Department, ITMO University, St. Petersburg, 197101, Russian Federation; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147003, India; Furtado, V., PPGIA, University of Fortaleza (UNIFOR), Fortaleza-CE, 60811-905, Brazil	Journal of Sensor and Actuator Networks	2019	22242708
2228	Nonpolynomial zigzag theories for random static analysis of laminated-composite and sandwich plates	Sahoo R., Grover N., Singh B.N.	Sahoo, R., Indian Institute of Technology, Banaras Hindu University, Varanasi, 201 005, India, Department of Civil Engineering, United States; Grover, N., Thapar Institute of Engineering and Technology, Patiala, 147 001, India, Department of Mechanical Engineering, Punjab, India; Singh, B.N., Indian Institute of Technology, Kharagpur, 721 302, India, Department of Aerospace Engineering, West Bengal, India	AIAA Journal	2019	11452
2229	Synthesis of Ethyl Phenol over Modified HZSM-5 Catalyst in a Fixed Bed Reactor	Saharan R., Halder G., Barman S.	Saharan, R., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Halder, G., Department of Chemical Engineering, National Institute of Technology, Durgapur, West Bengal, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Chemical Reactor Engineering	2019	15426580
2230	IEFA—A fuzzy framework for image enrichment	Sheoran A., Kaur H.	Sheoran, A., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147001, India; Kaur, H., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147001, India	Lecture Notes in Computational Vision and Biomechanics	2019	22129391

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2231	Comparative performance analysis of local feature descriptors for biomedical image retrieval	Sharma S., Aggarwal A.	Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Aggarwal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Computational Vision and Biomechanics	2019	22129391
2232	A novel electrochemical hydrogen storage-based proton battery for renewable energy storage	Oberoi A.S., Nijhawan P., Singh P.	Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2019	19961073
2233	Investigation of bandwidth optimization hybrid scheduling algorithm for hybrid WDM/TDM passive optical system	Singhal A., Gupta A., Singh C., Kaler R.S.	Singhal, A., Electronics and Communication Engineering Department, I K G Punjab Technical University, Jalandhar, 144 603, India; Gupta, A., Electronics and Communication Engineering Department, I K G Punjab Technical University, Jalandhar, 144 603, India; Singh, C., School of Electronics and Electrical Engineering, Lovely Professional University, Jalandhar, 144 411, India; Kaler, R.S., Electronics and Communication Engineering Department, Thapar University, Patiala, 147 001, India	Indian Journal of Pure and Applied Physics	2019	195596
2234	Highly-digital voltage scalable 4-bit flash ADC	Gupta A., Singh A., Agarwal A.	Gupta, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Singh, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar University, Patiala, India	IET Circuits, Devices and Systems	2019	1751858X
2235	A new automatic multi-document text summarization using topic modeling	Roul R.K., Mehrotra S., Pungaliya Y., Sahoo J.K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mehrotra, S., Department of Computer Science, BITS-Pilani, K. K. Birla Goa Campus, Zuarinagar, Pilani, Goa 403726, India; Pungaliya, Y., Department of Computer Science, BITS-Pilani, K. K. Birla Goa Campus, Zuarinagar, Pilani, Goa 403726, India; Sahoo, J.K., Department of Mathematics, BITS-Pilani, K. K. Birla Goa Campus, Zuarinagar, Pilani, Goa 403726, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	3029743
2236	An SDN-based secure mobility model for UAV-ground communications	Kumar R., Sayeed M.A., Sharma V., You I.	Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Sayeed, M.A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; You, I., Department of Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea	Communications in Computer and Information Science	2019	18650929
2237	Clustering-based computation of degradation rate for photovoltaic systems	Bhola P., Bhardwaj S.	Bhola, P., Electrical and Instrumentation Engineering Department, TIET, Patiala, India; Bhardwaj, S., Electrical and Instrumentation Engineering Department, TIET, Patiala, India	Journal of Renewable and Sustainable Energy	2019	19417012
2238	Trend analysis and ARIMA modeling for forecasting precipitation pattern in Wadi Shueib catchment area in Jordan	Al Balasme O., Babbar R., Karmaker T.	Al Balasme, O., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arabian Journal of Geosciences	2019	18667511
2239	Bacterial based admixed or spray treatment to improve properties of concrete	Tripathi E., Anand K., Goyal S., Reddy M.S.	Tripathi, E., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2019	2562499
2240	Implementation of AES-128 using multiple cipher keys	Sachdeva S., Kakkar A.	Sachdeva, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kakkar, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Communications in Computer and Information Science	2019	18650929
2241	Energy harvesting-based two-hop clustering for wireless mesh network	Tanwar S., Verma S., Tyagi S.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Verma, S., Department of IT, Chandra Vati Tiwari Girls Degree College, Kashipur, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357
2242	Enhancement methods for low visibility and fog degraded images	Singh G., Singh A.	Singh, G., Department of CSE, Thapar University, Patiala, India; Singh, A., Department of CSE, Thapar University, Patiala, India	Communications in Computer and Information Science	2019	18650929
2243	Diabetes detection and prediction using machine learning/IoT: A survey	Sharma N., Singh A.	Sharma, N., Department of CSE, Thapar University, Patiala, India; Singh, A., Department of CSE, Thapar University, Patiala, India	Communications in Computer and Information Science	2019	18650929
2244	Complex interval-valued intuitionistic fuzzy sets and their aggregation operators	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Fundamenta Informaticae	2019	1692968
2245	A hybrid algorithm based on particle swarm and spotted hyena optimizer for global optimization	Dhiman G., Kaur A.	Dhiman, G., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Kaur, A., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2246	Receiver Design to Employ Simultaneous Wireless Information and Power Transmission with Joint CFO and Channel Estimation	Rajaram A., Dinis R., Jayakody D.N.K., Kumar N.	Rajaram, A., School of Computer Science and Robotics, National Research Tomsk Polytechnic University, Tomsk, 634050, Russian Federation, Faculty of Science and Technology, New University of Lisbon, Lisbon, 1049-001, Portugal, Instituto de Telecomunicações, Lisbon, 1049-001, Portugal; Dinis, R., Faculty of Science and Technology, New University of Lisbon, Lisbon, 1049-001, Portugal, Instituto de Telecomunicações, Lisbon, 1049-001, Portugal; Jayakody, D.N.K., School of Computer Science and Robotics, National Research Tomsk Polytechnic University, Tomsk, 634050, Russian Federation; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India	IEEE Access	2019	21693536
2247	XPG polymorphisms and their association with lung cancer susceptibility, overall survival and response in North Indian patients treated with platinum-based doublet chemotherapy	Lawania S., Singh N., Behera D., Sharma S.	Lawania, S., Department of Biotechnology, Thapar University, Punjab, 147002, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical and Educational Research (PGIMER), Sector 14, Chandigarh, India; Behera, D., Department of Pulmonary Medicine, Post Graduate Institute of Medical and Educational Research (PGIMER), Sector 14, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Punjab, 147002, India	Future Oncology	2019	14796694
2248	UAVs assisted queue scheduling in ground ad hoc networks	Sharma V., Kumar R.	Sharma, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, 147004, India	International Journal of Ad Hoc and Ubiquitous Computing	2019	17438225
2249	GA-based machine translation system for Sanskrit to Hindi language	Singh M., Kumar R., Chana I.	Singh, M., Research Labs, CSED, Thapar University, Patiala, Punjab, India; Kumar, R., CSED, Thapar University, Patiala, Punjab, India; Chana, I., CSED, Thapar University, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2019	18761100
2250	Visualizing the trajectory of a charged particle in electric and magnetic fields using an Excel spreadsheet	Singh I., Khun K.K., Kaur B.	Singh, I., P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; Khun, K.K., P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physics Education	2019	319120
2251	Reference evapotranspiration estimation and modeling of the Punjab Northern India using deep learning	Saggi M.K., Jain S.	Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering and Technology, India	Computers and Electronics in Agriculture	2019	1681699
2252	Development of IoT for Smart Agriculture a Review	Lakhwani K., Gianey H., Agarwal N., Gupta S.	Lakhwani, K., Lovely Professional University, Phagwara, Punjab, India; Gianey, H., Thapar University, Patiala, Punjab, India; Agarwal, N., JECRC College, Jaipur, Rajasthan, India; Gupta, S., JECRC College, Jaipur, Rajasthan, India	Advances in Intelligent Systems and Computing	2019	21945357
2253	Assessment of despeckle filtering algorithms for segmentation of breast tumours from ultrasound images	Kriti, Virmani J., Agarwal R.	Kriti, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Virmani, J., CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biocybernetics and Biomedical Engineering	2019	2085216
2254	Performance and emission characteristics of CNG-fueled compression ignition engine with Ricinus communis methyl ester as pilot fuel	Mahla S.K., Dhir A.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Environmental Science and Pollution Research	2019	9441344
2255	Error probability analysis of STBC-OFDM systems with CFO and imperfect CSI over generalized fading channels	Singh D., Joshi H.D.	Singh, D., Department of ECE, Lovely Professional University, Phagwara, Punjab, India; Joshi, H.D., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	AEU - International Journal of Electronics and Communications	2019	14348411
2256	Implementation of Hebbian-LMS learning algorithm using artificial neural network	Vartika, Sakshi	Vartika, Thapar University, Patiala, Punjab, India; Sakshi, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357
2257	Performance evaluation of cognitive internet of things in asynchronous distributed space-time block codes over two-wave diffuse power fading channel	Sood V.V., Sharma S., Khanna R.	Sood, V.V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Sharma, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Lecture Notes in Electrical Engineering	2019	18761100
2258	Enhanced tribological properties of SiC reinforced copper metal matrix composites	Somani N., Tyagi Y.K., Kumar P., Srivastava V., Bhowmick H.	Somani, N., Department of Mechanical Engineering, DIT University, Dehradun, 248009, India; Tyagi, Y.K., Department of Mechanical Engineering, DIT University, Dehradun, 248009, India; Kumar, P., Materials Research Laboratory, Department of Physics, DIT University, Dehradun, 248009, India; Srivastava, V., Department of Mechanical Engineering, Thapar University, Patiala, 147003, India; Bhowmick, H., Department of Mechanical Engineering, Thapar University, Patiala, 147003, India	Materials Research Express	2019	20531591

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2259	Role of shell and pairing correction in the dynamics of compound nuclei with ACN = 118–196 using collective clusterization approach	Virk N.K., Sharma M.K., Kumar R.	Virk, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Nuclear Physics A	2019	3759474
2260	Performance analysis of software defined network with three controllers	Kumar S., Lal N., Chaurasiya V.K.	Kumar, S., Indian Institute of Information Technology, Allahabad, India; Lal, N., Thapar University, Patiala, Punjab, India; Chaurasiya, V.K., Indian Institute of Information Technology, Allahabad, India	Advances in Intelligent Systems and Computing	2019	21945357
2261	An extended technique for order preference by similarity to ideal solution group decision-making method with linguistic interval-valued intuitionistic fuzzy information	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	Journal of Multi-Criteria Decision Analysis	2019	10579214
2262	Formation, stability and comparison of water/oil emulsion using gum arabic and guar gum and effect of aging of polymers on drag reduction percentage in water/oil flow	Sokhal K.S., Dasaraju G., Bulasara V.K.	Sokhal, K.S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Dasaraju, G., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, C.V. Raman College of Engineering, Bhubaneswar, Odisha 752054, India	Vacuum	2019	0042207X
2263	MLBC: Multi-objective Load Balancing Clustering technique in Wireless Sensor Networks	Randhawa S., Jain S.	Randhawa, S., Computer Science and Engineering Department, Thapar University, Patiala, India; Jain, S., Computer Science and Engineering Department, Thapar University, Patiala, India	Applied Soft Computing Journal	2019	15684946
2264	New logarithmic operational laws and their aggregation operators for Pythagorean fuzzy set and their applications	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, India	International Journal of Intelligent Systems	2019	8848173
2265	Novel nano-insulin formulation modulates cytokine secretion and remodeling to accelerate diabetic wound healing	Kaur P., Sharma A.K., Nag D., Das A., Datta S., Ganguli A., Goel V., Rajput S., Chakrabarti G., Basu B., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, A.K., Amity Institute of Pharmacy, Amity University, Noida, India; Nag, D., Department of Biotechnology, University of Calcutta, Kolkata, West Bengal, India; Das, A., Department of Biotechnology, National Institute of Technology SikkimSikkim, India; Datta, S., Department of Biotechnology, University of Calcutta, Kolkata, West Bengal, India; Ganguli, A., Department of Biotechnology, University of Calcutta, Kolkata, West Bengal, India; Department of Microbiology, Techno India University, Kolkata, West Bengal, India; Goel, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rajput, S., Amity Institute of Pharmacy, Amity University, Noida, India; Chakrabarti, G., Department of Biotechnology, University of Calcutta, Kolkata, West Bengal, India; Basu, B., Amity Institute of Biotechnology, Amity University, Noida, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Nanomedicine: Nanotechnology, Biology, and Medicine	2019	15499634
2266	An intelligent regressive ensemble approach for predicting resource usage in cloud computing	Kaur G., Bala A., Chana I.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Parallel and Distributed Computing	2019	7437315
2267	Effect of MgO on structural, thermal and conducting properties of V ₂ -xMgxO ₅ -δ (x = 0.05–0.30) systems	Khan S., Singh K.	Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2019	2728842
2268	Evaluation of gain spectrum of dual/triple pumped fiber Raman amplifier (FRA) by optimizing its pumping parameters in the scenario of dense wavelength division multiplexed (DWDM) systems	Singh K., Kaur P., Devra S., Kaur G.	Singh, K., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Kaur, P., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Devra, S., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Optik	2019	304026
2269	Low-Dose CT Image Reconstruction Using Complex Diffusion Regularization	Kaur K., Tiwari S.	Kaur, K., Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Tiwari, S., School of Computer Science & Statistics (SCSS), Trinity College Dublin (TCD), Dublin, Ireland	Advances in Intelligent Systems and Computing	2019	21945357

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2270	Operation of DC drive by solar panel using maximum power point tracking technique	Jain A., Kumar S., Bhullar S., Navin N.K.	Jain, A., Department of Electrical Engineering, Indian Institute of Technology (BHU), Varanasi, Uttar Pradesh, India; Kumar, S., Department of Electrical Engineering, Indian Institute of Technology (BHU), Varanasi, Uttar Pradesh, India; Bhullar, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India; Navin, N.K., Department of Instrumentation and Control, NSIT, New Delhi, India	Advances in Intelligent Systems and Computing	2019	21945357
2271	Identification of hidden information using brain signals	Saini N., Bhardwaj S., Agarwal R.	Saini, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Bhardwaj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Advances in Intelligent Systems and Computing	2019	21945357
2272	Space shuttle landing control using supervised machine learning	Singla S., Baliyan N.	Singla, S., Department of Computer Science and Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India; Baliyan, N., Department of Computer Science and Engineering, Thapar University, Bhadson Road, Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2019	21945357
2273	Adsorptive interaction of 4-aminobiphenyl with mesoporous MCM-41	Toor S.K., Kushwaha J.P., Sangal V.K.	Toor, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Sangal, V.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Physics and Chemistry of Liquids	2019	319104
2274	System identification of an inverted pendulum using adaptive neural fuzzy inference system	Chawla I., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Advances in Intelligent Systems and Computing	2019	21945357
2275	Dynamic modeling of flexible robotic manipulators	Singla A., Singh A.	Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Advances in Intelligent Systems and Computing	2019	21945357
2276	Fuzz testing in stack-based buffer overflow	Bhardwaj M., Bawa S.	Bhardwaj, M., Thapar University, Patiala, India; Bawa, S., Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2019	21945357
2277	Toward human-powered lower limb exoskeletons: A review	Singla A., Dhand S., Dhawad A., Virk G.S.	Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhand, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhawad, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Virk, G.S., Innovative Technology and Science Limited (InnoTecUK), Cambridge, CB21 6DR, United Kingdom	Advances in Intelligent Systems and Computing	2019	21945357
2278	Spotted hyena optimizer for solving complex and non-linear constrained engineering problems	Dhiman G., Kumar V.	Dhiman, G., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Kumar, V., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357
2279	Computational intelligence tools for protein modeling	Kondabala R., Kumar V.	Kondabala, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2019	21945357
2280	Speech recognition of punjabi numerals using convolutional neural networks	Aditi T., Karun V.	Aditi, T., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Karun, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357
2281	A review on search-based tools and techniques to identify bad code smells in object-oriented systems	Kaur A., Dhiman G.	Kaur, A., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Dhiman, G., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357
2282	Total fuzzy agility evaluation using fuzzy methodology: A case study	Srivastava P., Khanduja D., Agrawal V.P., Saini N.	Srivastava, P., National Institute of Technology, Kurukshetra, India, Amity University, Noida, India; Khanduja, D., National Institute of Technology, Kurukshetra, India; Agrawal, V.P., Thapar University, Patiala, India; Saini, N., National Institute of Technology, Kurukshetra, India	Advances in Intelligent Systems and Computing	2019	21945357
2283	Comprehensive survey of OLAP models	Kaur H., Kaur G.	Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaur, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Advances in Intelligent Systems and Computing	2019	21945357
2284	Effect of addition of silicone oil on the rheology of fumed silica and polyethylene glycol shear thickening suspension	Singh M., Verma S.K., Biswas I., Mehta R.	Singh, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Verma, S.K., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Biswas, I., Terminal Ballistics Research Laboratory, Sector 30, Chandigarh, India; Mehta, R., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Polymer Engineering	2019	3346447
2285	Study of Austempered Ductile Iron (ADI) on Varying Austempering Temperatures	Singh G., Sharma S., Singh D.	Singh, G., ME Department, TIET (Deemed University), Patiala, 147004, India; Sharma, S., ME Department, Amity University, Noida, India; Singh, D., ME Department, TIET (Deemed University), Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2019	21954356

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2286	Implementation of immune feedback control algorithm for distribution static compensator	Badoni M., Singh A., Singh B.	Badoni, M., Department of Electrical Engineering, Delhi Technological University, Delhi, 110042, India, Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A., Department of Electrical Engineering, Delhi Technological University, Delhi, 110042, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India	IEEE Transactions on Industry Applications	2019	939994
2287	SAFE: SDN-Assisted Framework for Edge-Cloud Interplay in Secure Healthcare Ecosystem	Auja G.S., Chaudhary R., Kaur K., Garg S., Kumar N., Ranjan R.	Auja, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali, 140413, India; Chaudhary, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ranjan, R., School of Computer, Chinese University of Geosciences, Wuhan, 430074, China, School of Computing, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom	IEEE Transactions on Industrial Informatics	2019	15513203
2288	Cognitive spammer: A Framework for PageRank analysis with Split by Over-sampling and Train by Under-fitting	Makkar A., Kumar N.	Makkar, A., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Future Generation Computer Systems	2019	0167739X
2289	Load frequency control strategy via fractional-order controller and reduced-order modeling	Saxena S.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Electrical Power and Energy Systems	2019	1420615
2290	Real-time DNN-based face identification for the blind	Bhattacharya J., Guzzi F., Marsi S., Carrato S., Ramponi G.	Bhattacharya, J., Thapar University, Patiala, India; Guzzi, F., University of Trieste, Trieste, Italy; Marsi, S., University of Trieste, Trieste, Italy; Carrato, S., University of Trieste, Trieste, Italy; Ramponi, G., University of Trieste, Trieste, Italy	Lecture Notes in Electrical Engineering	2019	18761100
2291	Thermal degradation kinetics of oxo-degradable PP/PLA blends	Mandal D.K., Bhunia H., Bajpai P.K.	Mandal, D.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Polymer Engineering	2019	3346447
2292	Pre-diagnostic tool to predict obstructive lung diseases using iris recognition system	Bansal A., Agarwal R., Sharma R.K.	Bansal, A., Department of Electronics and Communication Engineering, GLA University, Mathura, UP, India; Agarwal, R., EIED, Thapar University, Patiala, Punjab, India; Sharma, R.K., CSED, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2019	21945357
2293	ERA-AODV for MANETs to improve reliability in energy-efficient way	Kaur B., Batra S., Arora V.	Kaur, B., CSE Department, Thapar University, Patiala, India; Batra, S., CSE Department, Thapar University, Patiala, India; Arora, V., CSE Department, Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2019	21945357
2294	Volumetric estimation using 3D reconstruction method for grading of fruits	Jadhav T., Singh K., Abhyankar A.	Jadhav, T., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala and Vishwakarma Institute of Information Technology, Pune, India; Singh, K., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology (Thapar University), Patiala, India; Abhyankar, A., Department of Technology, Savitribai Phule Pune University, Pune, India	Multimedia Tools and Applications	2019	13807501
2295	A novel rare itemset mining algorithm based on recursive elimination	Kataria M., Oswald C., Sivaselvan B.	Kataria, M., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Oswald, C., Department of Computer Engineering, Design and Manufacturing Kancheepuram, Indian Institute of Information Technology, Chennai, India; Sivaselvan, B., Department of Computer Engineering, Design and Manufacturing Kancheepuram, Indian Institute of Information Technology, Chennai, India	Advances in Intelligent Systems and Computing	2019	21945357
2296	Classification of breast tissue density patterns using SVM-based hierarchical classifier	Virmani J., Kriti, Thakur S.	Virmani, J., Thapar University, Patiala, Punjab, India; Kriti, Jaypee University of Information Technology, Solan, Wagnaghat, India; Thakur, S., Department of Radiology, IGM, Shimla, Himachal Pradesh, India	Advances in Intelligent Systems and Computing	2019	21945357
2297	Feature selection for image steganalysis using levy flight-based grey wolf optimization	Pathak Y., Arya K.V., Tiwari S.	Pathak, Y., Multimedia and Information Security Lab, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior, India; Arya, K.V., Multimedia and Information Security Lab, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior, India; Tiwari, S., Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2019	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2298	Provably Secure Fine-Grained Data Access Control over Multiple Cloud Servers in Mobile Cloud Computing Based Healthcare Applications	Roy S., Das A.K., Chatterjee S., Kumar N., Chattopadhyay S., Rodrigues J.J.P.C.	Roy, S., Department of Computer Science and Engineering, Asansol Engineering College, Asansol, 713305, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Chatterjee, S., Research Center Imarat, Defence Research and Development Organization, Hyderabad, 500069, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Chattopadhyay, S., Department of Information Technology, Jadavpur University, Kolkata, 700098, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, 37540-000, Brazil, Instituto de Telecomunicações, Lisboa, 1049-001, Portugal, ITMO University, Saint Petersburg, 197101, Russian Federation, University of Fortaleza (UNIFOR), Fortaleza, 60811-905, Brazil	IEEE Transactions on Industrial Informatics	2019	15513203
2299	Long short-term memory neural network-based multi-level model for smart irrigation	Sidhu R.K., Kumar R., Rana P.S.	Sidhu, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Modern Physics Letters B	2020	2179849
2300	Frequency excursion mitigation strategy using a novel coa optimised fuzzy controller in wind integrated power systems	Sharma M., Dhundhara S., Arya Y., Prakash S.	Sharma, M., Department of Electrical Engineering, Baba Hira Singh Bhattal Institute of Engineering and Technology, Lehragaga, Sangrur, Punjab, India; Dhundhara, S., Department of Basic Engineering, College of Agricultural Engineering & Technology, CCS Haryana Agricultural University, Hisar, Haryana, India; Arya, Y., Department of Electrical & Electronics Engineering, Maharaja Surajmal Institute of Technology, Janakpuri, New Delhi, India; Prakash, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Renewable Power Generation	2020	17521416
2301	An α -helix mimetic oligopyridylamide, ADH-31, modulates A β 42 monomer aggregation and destabilizes protofibril structures: Insights from molecular dynamics simulations	Kaur A., Goyal D., Goyal B.	Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib Punjab, 140406, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib Punjab, 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Physical Chemistry Chemical Physics	2020	14639076
2302	Role of higher order deformations in fission fragment mass distribution of Astatine isotopes within collective clusterization approach	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Physics: Conference Series	2020	17426588
2303	Copper(i) and silver(i) complexes of anthraldehyde thiosemicarbazone: Synthesis, structure elucidation, In vitro anti-tuberculosis/cytotoxic activity and interactions with DNA/HSA	Khan A., Paul K., Singh I., Jasinski J.P., Smolenski V.A., Hotchkiss E.P., Kelley P.T., Shalit Z.A., Kaur M., Banerjee S., Roy P., Sharma R.	Khan, A., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Jasinski, J.P., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Smolenski, V.A., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Hotchkiss, E.P., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Kelley, P.T., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Shalit, Z.A., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Kaur, M., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 03435-2001, United States; Banerjee, S., Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India; Roy, P., Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India; Sharma, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab, India	Dalton Transactions	2020	14779226
2304	Structural, morphological, luminescent and magnetic studies of CTAB and TOPO assisted Gd ₂ O ₃ :Eu phosphors synthesized via co-precipitation route	Priya R., Pandey O.P.	Priya, R., Functional Materials Lab, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2020	9258388
2305	Job scheduling in cloud using seagull optimization algorithm	Garg M., Dhiman G.	Garg, M., Department of Computer Science, Government Bikram College of Commerce, Patiala, India; Dhiman, G., Thapar Institute of Engineering and Technology, Government Bikram College of Commerce, Patiala, India	Impacts and Challenges of Cloud Business Intelligence	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2306	Mechanical characterization of FDM filaments with PVDF matrix reinforced with Graphene and Barium Titanate	Farina I., Sharma R., Singh R., Batish A., Singh N., Fraternali F., Colangelo F.	Farina, I., Dept. of Engineering, University of Naples, Italy; Sharma, R., Dept. of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Dept. of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Dept. of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, N., Dept. of Civil Engineering, University of Salerno, Italy; Fraternali, F., Dept. of Civil Engineering, University of Salerno, Italy; Colangelo, F., Dept. of Engineering, University of Naples, Italy	IOP Conference Series: Materials Science and Engineering	2020	17578981
2307	Biomedical Evaluation of Lansium parasiticum Extract-Protected Silver Nanoparticles Against Haemonchus contortus, a Parasitic Worm	Goel V., Kaur P., Singla L.D., Choudhury D.	Goel, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Singla, L.D., Department of Veterinary Parasitology, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India, Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center, for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Molecular Biosciences	2020	2296889X
2308	Communication based predictive dynamic stability scheme in microgrid with high penetration of distributed energy resources	Hussain S.M.S., Aftab M.A., Ali I., Ustun T.S.	Hussain, S.M.S., Fukushima Renewable Energy Institute, AIST (FREIA), Koriyama, Japan; Aftab, M.A., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Ali, I., Jamia Millia Islamia, Department of Electrical Engineering, New Delhi, India; Ustun, T.S., Fukushima Renewable Energy Institute, AIST (FREIA), Koriyama, Japan	9th IEEE International Conference on Power Electronics, Drives and Energy Systems, PEDES 2020	2020	
2309	Reduced component, buck-boost converter for plug-in electric vehicles with a current sensing-based efficient NLCC technique	Mishra A.K., Singh A.K., Kim T.	Mishra, A.K., Department of Electrical and Computer Engineering, University of Michigan-Dearborn, Dearborn, MI 48128, United States; Singh, A.K., Department of Electrical and Instrumentation Engineering, TIET, Patiala, 147004, India; Kim, T., Department of Electrical and Computer Engineering, University of Michigan-Dearborn, Dearborn, MI 48128, United States	IET Power Electronics	2020	17554535
2310	Triphenylethylene analogues: Design, synthesis and evaluation of antitumor activity and topoisomerase inhibitors	Rani S., Paul K.	Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	European Journal of Medicinal Chemistry	2020	2235234
2311	Grasshopper optimisation based robust power/frequency regulator for shipboard micro-grid	Choudhary A.K., Prakash S., Sharma M., Dhundhara S.	Choudhary, A.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, M., Department of Electrical Engineering, Baba Hira Singh Bhattal Institute of Engineering and Technology, Lehragaga, Punjab, India; Dhundhara, S., Department of Basic Engineering, College of Agricultural Engineering and Technology, CCS Haryana Agricultural University, Hisar, Haryana, India	IET Renewable Power Generation	2020	17521416
2312	Isolation Improvement of the MIMO PIFA using Metamaterial Absorber Array	Kaur M., Singh H.S.	Kaur, M., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication Engineering, Patiala, Punjab, India; Singh, H.S., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication Engineering, Patiala, Punjab, India	Proceedings of the 2020 International Symposium on Antennas and Propagation, APSYM 2020	2020	
2313	Dynamic bayesian network decision model for improving fault detection procedure	Chatti N., Tidiri K., Bera T.K.	Chatti, N., University of Angers, Polytech Angers, LARIS, Angers, France; Tidiri, K., University of Grenoble Alpes, Grenoble-INP, GIPSA-lab, Grenoble, France; Bera, T.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IEEE International Conference on Industrial Engineering and Engineering Management	2020	21573611
2314	Förster resonance energy transfer (FRET) and applications thereof	Kaur A., Kaur P., Ahuja S.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaur, P., Department of Biotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib Punjab, 140407, India; Ahuja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Analytical Methods	2020	17599660
2315	Disturbance Observer based Fractional Order Sliding Mode Control for Quadrotor	Bist A., Sondhi S.	Bist, A., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, Punjab, India; Sondhi, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, Punjab, India	2020 IEEE 17th India Council International Conference, INDICON 2020	2020	
2316	Kinematics Analysis and Jacobian calculation for six Degrees of Freedom Robotic Arm	Kaur M., Sondhi S., Yanumula V.K.	Kaur, M., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Sondhi, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Yanumula, V.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	2020 IEEE 17th India Council International Conference, INDICON 2020	2020	
2317	Influence of biogenic treatment in improving the durability properties of waste amended concrete: A review	Joshi S., Goyal S., Sudhakara Reddy M.	Joshi, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Construction and Building Materials	2020	9500618

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2318	In situ approach to fabricate heterojunction p-n CuO-ZnO nanostructures for efficient photocatalytic reactions	Kaur R., Suresh M., López-Vidrier J., Gutsch S., Weiss C., Prescher M., Kirste L., Singh R., Pal B., Zacharias M.	Kaur, R., Laboratory for Nanotechnology, Institute of Microsystems Engineering (IMTEK), Albert-Ludwigs University of Freiburg, Georges-Köhler-Allee 103, Freiburg, D-79110, Germany; Suresh, M., Laboratory for Nanotechnology, Institute of Microsystems Engineering (IMTEK), Albert-Ludwigs University of Freiburg, Georges-Köhler-Allee 103, Freiburg, D-79110, Germany; López-Vidrier, J., Laboratory for Nanotechnology, Institute of Microsystems Engineering (IMTEK), Albert-Ludwigs University of Freiburg, Georges-Köhler-Allee 103, Freiburg, D-79110, Germany; Gutsch, S., Laboratory for Nanotechnology, Institute of Microsystems Engineering (IMTEK), Albert-Ludwigs University of Freiburg, Georges-Köhler-Allee 103, Freiburg, D-79110, Germany; Weiss, C., Fraunhofer-Institut für Solare Energiesysteme, Heidenhofstraße 2, Freiburg, 79110, Germany; Prescher, M., Fraunhofer Institute for Applied Solid State Physics, Tullastraße 72, Freiburg, 79108, Germany; Kirste, L., Fraunhofer Institute for Applied Solid State Physics, Tullastraße 72, Freiburg, 79108, Germany; Singh, R., School of Chemistry and Biochemistry, Thapar University, Patiala, Punjab, 147004, India; Pal, B., Nanostructured Renewable Energy Materials Laboratory, Faculty of Industrial Sciences and Technology, University Malaysia Pahang, Gambang Kuantan, 26300, Malaysia; Zacharias, M., Laboratory for Nanotechnology, Institute of Microsystems Engineering (IMTEK), Albert-Ludwigs University of Freiburg, Georges-Köhler-Allee 103, Freiburg, D-79110, Germany	New Journal of Chemistry	2020	11440546
2319	Analysis of various competing binary and ternary decay processes of the Es 253 nucleus	Sharma N., Kaur A., Sharma M.K.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physical Review C	2020	24699985
2320	Modeling and Performance Analysis of IEEE 1609.4 Multi-Channel Operation in Vehicular Networks	Verma P.	Verma, P., Thapar Institute of Engineering Technology, Department of Electronics and Communication Engineering, Patiala, India	2020 24th International Computer Science and Engineering Conference, ICSEC 2020	2020	
2321	Investigating the role of theory of planned behavior and Machiavellianism in earnings management intentions	Sayal K., Singh G.	Sayal, K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Singh, G., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	Accounting Research Journal	2020	10309616
2322	Estimating Hamiltonian fluctuations from quantum time averages	Sharma N., Gautam K., Parthasarathy H.	Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology Patiala Punjab, India; Gautam, K., Quantum Research and Centre of Excellence QRACE, New Delhi, India; Parthasarathy, H., Department of Electronics and Communication Engineering, Netaji Subhas University of Technology New Delhi, New Delhi, India	IET Quantum Communication	2020	26328925
2323	Message from the BDCloud-2020 program chairs ISPA-BDCloud-SocialCom-SustainCom 2020	Neagu D., Hung C.-L., Luo C., Kumar N.	Neagu, D., University of Bradford, United Kingdom; Hung, C.-L., National Yang-Ming University, Taiwan; Luo, C., University of Exeter, United Kingdom; Kumar, N., Thapar Institute of Engineering and Technology, India	Proceedings - 2020 IEEE International Symposium on Parallel and Distributed Processing with Applications, 2020 IEEE International Conference on Big Data and Cloud Computing, 2020 IEEE International Symposium on Social Computing and Networking and 2020 IEEE International Conference on Sustainable Computing and Communications, ISPA-BDCloud-SocialCom-SustainCom 2020	2020	
2324	Lifetime improvements of smart sensors maintenance protocol in prospect of IoT-based rampal power plant	Shah S.B.H., Wang L., Haque M.E., Islam M.J., Carie A., Kumar N.	Shah, S.B.H., Dalian University of Technology, School of Software, China; Wang, L., Dalian University of Technology, School of Software, China; Haque, M.E., Feni University, Department of EEE, Feni, Bangladesh; Islam, M.J., ZHSUST, Dept. of EEE, Shariatpur, Bangladesh; Carie, A., VIT-APamaravathi, Computer Science and Engineering, India; Kumar, N., Thapar Institute of Science and Technology Patiala, Punjab, India	Proceedings - 2020 16th International Conference on Mobility, Sensing and Networking, MSN 2020	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2325	A Blockchain-Based Credibility Scoring Framework for Electronic Medical Records	Siva Rama Krishnan S., Manoj M.K., Gadekallu T.R., Kumar N., Maddikunta P.K.R., Bhattacharya S., Suh D.Y., Piran M.J.	Siva Rama Krishnan, S., Vellore Institute of Technology, School of Information Technology, Vellore, India; Manoj, M.K., Vellore Institute of Technology, School of Information Technology, Vellore, India; Gadekallu, T.R., Vellore Institute of Technology, School of Information Technology, Vellore, India; Kumar, N., Thapar Institute of Engineering Technology, India; Maddikunta, P.K.R., Vellore Institute of Technology, School of Information Technology, Vellore, India; Bhattacharya, S., Vellore Institute of Technology, School of Information Technology, Vellore, India; Suh, D.Y., Kyung Hee University, Department of Electronics Engineering, South Korea; Piran, M.J., Sejong University, Computer Engineering Department, Seoul, South Korea	2020 IEEE Globecom Workshops, GC Wkshps 2020 - Proceedings	2020	
2326	Blockchain-based Efficient Energy Trading Scheme for Smart-Grid Systems	Singla S., Dua A., Kumar N., Tanwar S.	Singla, S., BITS Pilani, Department of Computer Science and Information Systems, Pilani, Rajasthan, India; Dua, A., BITS Pilani, Department of Computer Science and Information Systems, Pilani, Rajasthan, India; Kumar, N., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, India	2020 IEEE Globecom Workshops, GC Wkshps 2020 - Proceedings	2020	
2327	OP3S: On-Street Occupancy based Parking Prices Prediction System for ITS	Saharan S., Baway S., Kumarz N.	Saharan, S., Deemed to Be University, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Baway, S., Deemed to Be University, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Kumarz, N., Deemed to Be University, Thapar Institute of Engineering Technology, Patiala, Punjab, India	2020 IEEE Globecom Workshops, GC Wkshps 2020 - Proceedings	2020	
2328	Trustful: A Decentralized Public Key Infrastructure and Identity Management System	Dua A., Barpanda S.S., Kumar N., Tanwar S.	Dua, A., Information Systems, Department of Computer Science, BITS Pilani, Pilani (Rajasthan), India; Barpanda, S.S., Information Systems, Department of Computer Science, BITS Pilani, Pilani (Rajasthan), India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science Department, Patiala, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, India	2020 IEEE Globecom Workshops, GC Wkshps 2020 - Proceedings	2020	
2329	Message from the SP-DLT 2020 Workshop Chairs	Shetty S., Ghosh U., Kumar N., Khan Pathan A.-S.	Shetty, S., Old Dominion University, VA, United States; Ghosh, U., Vanderbilt University, United States; Kumar, N., Thapar University, India; Khan Pathan, A.-S., Independent University, Bangladesh	Proceedings - 2020 IEEE 17th International Conference on Mobile Ad Hoc and Smart Systems, MASS 2020	2020	
2330	Images to Signals, Signals to Highlights	Maram S.S., Kumar N., Rodrigues J.J.P.C., Tanwar S., Jain A.	Maram, S.S., Thapar Institute of Engineering Technology (Deemed to be University), Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering Technology (Deemed to be University), Patiala, Punjab, India; Rodrigues, J.J.P.C., Federal University of Piau (UFPI), Teresina-PI, Brazil; Tanwar, S., Thapar Institute of Engineering Technology (Deemed to be University), Patiala, Punjab, India; Jain, A., Institute of Technology, Nirma University, Ahmedabad, Gujarat, India	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	2020	
2331	Relevance of Deformation Effects in Decay Modes of Radioactive Nucleus ²⁴² Cm	Sharma K., Sharma M.K.	Sharma, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Bulletin of the Russian Academy of Sciences: Physics	2020	10628738
2332	Communication-Efficient Federated Learning for Anomaly Detection in Industrial Internet of Things	Liu Y., Kumar N., Xiong Z., Lim W.Y.B., Kang J., Niyato D.	Liu, Y., School of Data Science of Technology, Heilongjiang University, Harbin, China; Kumar, N., Thapar Institute of Engineering Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Xiong, Z., School of Computer Science and Engineering, Nanyang Technological University, Singapore, Singapore; Lim, W.Y.B., School of Computer Science and Engineering, Nanyang Technological University, Singapore, Singapore; Kang, J., School of Computer Science and Engineering, Nanyang Technological University, Singapore, Singapore; Niyato, D., School of Computer Science and Engineering, Nanyang Technological University, Singapore, Singapore	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	2020	
2333	Block-RAS: A P2P Resource Allocation Scheme in 6G Environment with Public Blockchains	Shukla A., Gupta R., Tanwar S., Kumar N., Rodrigues J.J.P.C.	Shukla, A., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Gupta, R., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Kumar, N., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India; Rodrigues, J.J.P.C., Federal University of Piau (UFPI), Teresina, Brazil	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	2020	
2334	UnRest: Underwater reliable acoustic communication for multimedia streaming	Gazi F., Misra S., Ahmed N., Mukherjee A., Kumar N.	Gazi, F., Advanced Technology Development Centre, Indian Institute of Technology, Kharagpur, 721302, India; Misra, S., Department of Computer Science & Engineering, Indian Institute of Technology, Kharagpur, 721302, India; Ahmed, N., Department of Computer Science & Engineering, Indian Institute of Technology, Kharagpur, 721302, India; Mukherjee, A., Department of Computer Science & Engineering, Indian Institute of Technology, Kharagpur, 721302, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	2020	
2335	Call for Special Issue Papers: Internet of Things Data Visualization for Business Intelligence	Kumar N.	Kumar, N., Thapar Institute of Engineering, Thapar University, India	Big data	2020	2167647X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2336	One parameter optimal derivative-free family to find the multiple roots of algebraic nonlinear equations	Kansal M., Alshomrani A.S., Bhalla S., Behl R., Salimi M.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology Punjab 147004, India; Alshomrani, A.S., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Bhalla, S., Department of Mathematics, Chandigarh University, Mohali, Gharuan, 140413, India; Behl, R., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Salimi, M., Department of Mathematics & Statistics, McMaster University, Hamilton, ON L8S 4K1, Canada, Center for Dynamics, Faculty of Mathematics, Technische Universität Dresden, Dresden, 01062, Germany	Mathematics	2020	22277390
2337	Modeling of all-optical modulation format conversion from amplitude-shift keying to phase-shift keying using a vertical cavity quantum wells absorber	Pradhan R., Choudhary A., Samanta S.K., Mishra L., Jana S., Datta P.K.	Pradhan, R., Department of Physics, Midnapore College, Midnapore, 721101, India; Choudhary, A., Advanced Technology Development Centre, Indian Institute of Technology, Kharagpur, 721302, India; Samanta, S.K., Department of Physics, Midnapore College, Midnapore, 721101, India; Mishra, L., Department of Physics, Ganjam College, Ganjam, 761026, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Datta, P.K., Department of Physics and Meteorology, Indian Institute of Technology, Kharagpur, 721302, India	Journal of the Optical Society of America B: Optical Physics	2020	7403224
2338	Kinetic Study and Isotherm Analysis for Removal and Recovery of Coexistent Hazardous Acidic and Basic Dyes from Wastewater Using PTD-ZrPB Nanocomposite	Kaur H., Kaushal S., Kumar S., Badru R., Singh P., Mittal S.	Kaur, H., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Kaushal, S., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Badru, R., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Mittal, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala (Pb), 147004, India	Russian Journal of Inorganic Chemistry	2020	360236
2339	Triphenyl ether amide as a probe for electrochemical and optical sensing of copper, cyanide and arginine	Gupta S., Mittal S.K., Chhibber M.	Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India	Journal of the Electrochemical Society	2020	134651
2340	Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments	Kumar S., Kaiwartya O., Rathee M., Kumar N., Lloret J.	Kumar, S., Jawaharlal Nehru University, New Delhi, India; Kaiwartya, O., Nottingham Trent University, Nottingham, United Kingdom; Rathee, M., Nottingham Trent University, Nottingham, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia; Lloret, J., Universitat Politècnica de Valencia, Valencia, Spain	IEEE Systems Journal	2020	19328184
2341	8-Hydroxyquinoline Fluorophore for Sensing of Metal Ions and Anions	Rohini, Paul K., Luxami V.	Rohini, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	Chemical Record	2020	15278999
2342	Performance analysis of irradiation induced defected mixed CNT bundle based coupled VLSI interconnects	Sharma M., Rai M.K., Khanna R.	Sharma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2020	9574522
2343	A provably secure dynamic ID-based authenticated key agreement framework for mobile edge computing without a trusted party	Mishra D., Dharminder D., Yadav P., Sreenivasa Rao Y., Vijayakumar P., Kumar N.	Mishra, D., Department of Mathematics, Maulana Azad National Institute of Technology, Bhopal, India; Dharminder, D., Department of Mathematics, Amrita School of Engineering, Chennai Campus, Amrita Vishwa Vidyapeetham, India; Yadav, P., Department of Mathematics, The LNM Institute of Information Technology, Jaipur, India; Sreenivasa Rao, Y., Department of Mathematics, National Institute of Technology Warangal, India; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Villupuram, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India. Also with School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand and Department of Computer Science and Information Sciences, Asia University, Taiwan	Journal of Information Security and Applications	2020	22142134
2344	Deep learning-based object detection in low-altitude UAV datasets: A survey	Mittal P., Singh R., Sharma A.	Mittal, P., Research Scholar, UIET, Panjab University, Chandigarh, India; Singh, R., Assistant Professor, CSED, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Assistant Professor, UIET, Panjab University, Chandigarh, India	Image and Vision Computing	2020	2628856
2345	On-sun testing of volumetric absorption based concentrating solar collector employing carbon soot nanoparticles laden fluid	Singh N., Khullar V.	Singh, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Sustainable Energy Technologies and Assessments	2020	22131388
2346	Sulfate Resistance and Drying Shrinkage of Self-Compacting Concrete Incorporating Copper Slag	Gupta N., Siddique R.	Gupta, N., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Deemed Univ., Patiala, Punjab 147004, India; Siddique, R., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Deemed Univ., Patiala, Punjab 147004, India	Journal of Materials in Civil Engineering	2020	8991561

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2347	Energy-Efficient Workflow Scheduling Using Container-Based Virtualization in Software-Defined Data Centers	Ranjan R., Thakur I.S., Aujla G.S., Kumar N., Zomaya A.Y.	Ranjan, R., Computer and Network Security Division, Innovaccer, Noida, India; Thakur, I.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Aujla, G.S., School of Computing, Newcastle University, Newcastle upon Tyne, United Kingdom, Computer Science and Engineering Department, Chandigarh University, Chandigarh, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, King Abdulaziz University, Jeddah, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taichung City, Taiwan; Zomaya, A.Y., School of Information Technologies, J12 University of Sydney, Sydney, NSW, Australia	IEEE Transactions on Industrial Informatics	2020	15513203
2348	Qualitative model to enhance quality of metadata for data warehouse	Gautam V.	Gautam, V., Thapar Institute of Engineering and Technology, Patiala, 147003, India	International Journal of Information Technology (Singapore)	2020	25112104
2349	ANFIS based system identification of underactuated systems	Chawla I., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Nonlinear Sciences and Numerical Simulation	2020	15651339
2350	Evaluation of corrosion mechanism for tungsten carbide coating exposed in actual boiler environment	Saroop V., Mudgal D., Kumar S., Prakash S.	Saroop, V., Department of Materials and Metallurgy, PEC Chandigarh, Chandigarh, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Department of Materials and Metallurgy, PEC Chandigarh, Chandigarh, India, Nanotechnology and Material Characterization Lab, Bharat Forge Limited, Pune, Maharashtra, India; Prakash, S., Department of Metallurgical and Materials Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India	Engineering Failure Analysis	2020	13506307
2351	HEART: Unrelated parallel machines problem with precedence constraints for task scheduling in cloud computing using heuristic and meta-heuristic algorithms	Bhardwaj A.K., Gajpal Y., Surti C., Gill S.S.	Bhardwaj, A.K., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Mohali, India, Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, MB, Canada; Gajpal, Y., Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, MB, Canada; Surti, C., Department of Information System, Analytics and Supply Chain Management, Rider University, Lawrenceville, NJ, United States; Gill, S.S., School of Electronic Engineering and Computer Science, Queen Mary University of London, London, United Kingdom	Software - Practice and Experience	2020	380644
2352	Structural, thermal and electrical study of copper-doped strontium zirconate	Kaur P., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ionics	2020	9477047
2353	Waste-to-energy nexus: A sustainable development	Sharma S., Basu S., Shetti N.P., Kamali M., Walvekar P., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 027, India; Kamali, M., KU Leuven, Department of Chemical Engineering, Process and Environmental Technology Lab, J. De Nayerlaan 5, Sint-Katelijne-Waver, 2860, Belgium; Walvekar, P., Department of Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka 580 002, India; Aminabhavi, T.M., Department of Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka 580 002, India	Environmental Pollution	2020	2697491
2354	Virtual screening and molecular dynamics study of approved drugs as inhibitors of spike protein S1 domain and ACE2 interaction in SARS-CoV-2	Prajapat M., Shekhar N., Sarma P., Avti P., Singh S., Kaur H., Bhattacharyya A., Kumar S., Sharma S., Prakash A., Medhi B.	Prajapat, M., Dept. of Pharmacology, PGIMER, Chandigarh, India; Shekhar, N., Dept. of Pharmacology, PGIMER, Chandigarh, India; Sarma, P., Dept. of Pharmacology, PGIMER, Chandigarh, India; Avti, P., Dept. of Biophysics, PGIMER, Chandigarh, India; Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, H., Dept. of Pharmacology, PGIMER, Chandigarh, India; Bhattacharyya, A., Dept. of Ophthalmology, GMCH-32, Chandigarh, India; Kumar, S., Dept. of Pharmacology, PGIMER, Chandigarh, India; Sharma, S., Dept. of Pharmacology, PGIMER, Chandigarh, India; Prakash, A., Dept. of Pharmacology, PGIMER, Chandigarh, India; Medhi, B., Dept. of Pharmacology, PGIMER, Chandigarh, India	Journal of Molecular Graphics and Modelling	2020	10933263
2355	A Deep Learning-based Cryptocurrency Price Prediction Scheme for Financial Institutions	Patel M.M., Tanwar S., Gupta R., Kumar N.	Patel, M.M., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Journal of Information Security and Applications	2020	22142134

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2356	Synthesis and characterization of gadolinium-doped ceria and barium cerate-based composite electrolyte material for IT-SOFC	Gautam M., Ahuja A., Sinha A., Sharma J., Patro P.K., Venkatasubramanian A.	Gautam, M., School of Energy and Environment, Thapar University, Patiala, 147001, India; Ahuja, A., School of Energy and Environment, Thapar University, Patiala, 147001, India; Sinha, A., Powder Metallurgy Division, Materials Group, Bhabha Atomic Research Centre, Navi Mumbai, 400703, India; Sharma, J., Powder Metallurgy Division, Materials Group, Bhabha Atomic Research Centre, Navi Mumbai, 400703, India; Patro, P.K., Powder Metallurgy Division, Materials Group, Bhabha Atomic Research Centre, Navi Mumbai, 400703, India; Venkatasubramanian, A., School of Energy and Environment, Thapar University, Patiala, 147001, India	Bulletin of Materials Science	2020	2504707
2357	A classification and systematic review of product line feature model defects	Bhushan M., Negi A., Samant P., Goel S., Kumar A.	Bhushan, M., School of Computing, DIT University, Dehradun, Uttarakhand, India; Negi, A., Cyber Advisory, Deloitte USI, Hyderabad, India; Samant, P., Adventum Advanced Solution Pvt. Ltd., Bangalore, Karnataka, India; Goel, S., Bennett University, Greater Noida, Uttar Pradesh, India; Kumar, A., Thapar Institute of Engineering, Patiala, Punjab, India	Software Quality Journal	2020	9639314
2358	Local Statistics-based Speckle Reducing Bilateral Filter for Medical Ultrasound Images	Singh K., Sharma B., Singh J., Srivastava G., Sharma S., Aggarwal A., Cheng X.	Singh, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University Himachal Pradesh, India; Singh, J., Department of Computer Applications, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab 140401, India; Srivastava, G., Department of Mathematics and Computer Science, Brandon University, Brandon, R7A 6A9, Canada, Research Center for Interneural Computing, China Medical University, Taichung, 40402, Taiwan; Sharma, S., Department of Computer Engineering, Marwadi University, Rajkot, 360008, India; Aggarwal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Cheng, X., Computer Science, Middlesex University, London, United Kingdom	Mobile Networks and Applications	2020	1383469X
2359	An intuitionistic fuzzy two stage supply chain network design problem with multi-mode demand and multi-mode transportation	Niroomand S., Garg H., Mahmoodirad A.	Niroomand, S., Department of Industrial Engineering, Firouzabad Institute of Higher Education, Firouzabad, Fars, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India; Mahmoodirad, A., Department of Mathematics, Masjed-Soleiman Branch, Islamic Azad University, Masjed-Soleiman, Iran	ISA Transactions	2020	190578
2360	PSO Optimized Geocast Routing in VANET	Husain A., Singh S.P., Sharma S.C.	Husain, A., Department of Computer Science & IT, Faculty of Engineering Technology, MJP Rohilkhand University, Bareilly, 243006, India; Singh, S.P., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S.C., Wireless Network Lab, Electronics and Computer Discipline, DPT, IIT Roorkee, Roorkee, 247667, India	Wireless Personal Communications	2020	9296212
2361	Restructuring Object-Oriented Software Systems Using Various Aspects of Class Information	Prajapati A., Parashar A., Chhabra J.K.	Prajapati, A., Computer Engineering and IT, JIIT Noida, Noida, India; Parashar, A., Computer Science and Engineering Department, TIET Patiala, Patiala, India; Chhabra, J.K., Computer Engineering, NIT Kurukshetra, Kurukshetra, India	Arabian Journal for Science and Engineering	2020	2193567X
2362	Vision-based personalized Wireless Capsule Endoscopy for smart healthcare: Taxonomy, literature review, opportunities and challenges	Muhammad K., Khan S., Kumar N., Del Ser J., Mirjalili S.	Muhammad, K., Department of Software, Sejong University, Seoul, 143-747, South Korea; Khan, S., Visual Artificial Intelligence Laboratory, School of Engineering, Computing and Mathematics, Oxford Brookes University, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India; Del Ser, J., TECNALIA, Basque Research and Technology Alliance (BRTA), Derio, 48160, Spain, University of the Basque Country (UPV/EHU), Bilbao, 48013, Spain; Mirjalili, S., Centre for Artificial Intelligence Research and Optimisation, Torrens University Australia, Fortitude Valley, Brisbane, QLD, 4006, Australia	Future Generation Computer Systems	2020	0167739X
2363	Poly(eriochrome black T) modified electrode for electroensing of methildiazine	Shetti N.P., Ilager D., Malode S.J., Monga D., Basu S., Reddy K.R.	Shetti, N.P., Center for Electrochemical Science & Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 030, India; Ilager, D., Center for Electrochemical Science & Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 030, India; Malode, S.J., Center for Electrochemical Science & Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 030, India; Monga, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 47004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 47004, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Materials Science in Semiconductor Processing	2020	13698001
2364	MCH-EOR: Multi-objective Cluster Head Based Energy-aware Optimized Routing algorithm in Wireless Sensor Networks	Mehta D., Saxena S.	Mehta, D., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Saxena, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Sustainable Computing: Informatics and Systems	2020	22105379
2365	Photocatalytic degradation of monocrotophos and quinalphos using solar-activated S-doped TiO2	Sraw A., Kaur T., Pandey Y., Verma A., Sobti A., Wanchoo R.K., Toor A.P.	Sraw, A., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Kaur, T., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Pandey, Y., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sobti, A., Dr. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Wanchoo, R.K., Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Toor, A.P., Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India	International Journal of Environmental Science and Technology	2020	17351472

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2366	Possibility mean, variance and standard deviation of single-valued neutrosophic numbers and its applications to multi-attribute decision-making problems	Garai T., Dalapati S., Garg H., Roy T.K.	Garai, T., Department of Mathematics, Shyamsundar College, Shyamsundar, Purba Bardhaman, West Bengal 713424, India; Dalapati, S., Department of Mathematics, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal 711103, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Roy, T.K., Department of Mathematics, Indian Institute of Engineering Science and Technology Shibpur, Howrah, West Bengal 711103, India	Soft Computing	2020	14327643
2367	Cylindrical air spaced high gain dielectric resonator antenna for ultra-wideband applications	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Badson Road, Patiala, India; Kaur, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Badson Road, Patiala, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Badson Road, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2020	2562499
2368	Theoretical investigations into magnetorheological finishing of external cylindrical surfaces for improved performance	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2020	9544062
2369	Handshaking of VSG with charging station to support the frequency in microgrid	Dhingra K., Singh M.	Dhingra, K., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2020	9487921
2370	Stimulating business incubation performance: role of networking, university linkage and facilities	Kiran R., Bose S.C.	Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, (Deemed to be University), Patiala, India; Bose, S.C., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, (Deemed to be University), Patiala, India	Technology Analysis and Strategic Management	2020	9537325
2371	Continuous monitoring of suspended sediment concentrations using image analytics and deriving inherent correlations by machine learning	Ghorbani M.A., Khatibi R., Singh V.P., Kahya E., Ruskeepää H., Saggi M.K., Sivakumar B., Kim S., Salmasi F., Hasanpour Kashani M., Samadianfard S., Shahabi M., Jani R.	Ghorbani, M.A., Department of Water Engineering, University of Tabriz, Tabriz, Iran, Department of Civil Engineering, Near East University, P.O. Box 99138, Nicosia, North Cyprus, Mersin 10, Turkey; Khatibi, R., GTEV-ReX Limited, Swindon, United Kingdom; Singh, V.P., Department of Biological and Agricultural Engineering & Zachry, Department of Civil Engineering, Texas A & M University, College Station, TX 77843-2117, United States; Kahya, E., Istanbul Technical University, Department of Civil Engineering, Istanbul, Turkey; Ruskeepää, H., Department of Mathematics and Statistics, University of Turku, Turku, FIN-20014, Finland; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Sivakumar, B., Department of Civil Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400076, India; Kim, S., Department of Railroad Construction and Safety Engineering, Dongyang University, Yeongju, 36040, South Korea; Salmasi, F., Department of Water Engineering, University of Tabriz, Tabriz, Iran; Hasanpour Kashani, M., Department of Water Engineering, Faculty of Agriculture and Natural Resources, University of Mohaghegh Ardabili, Ardabil, Iran; Samadianfard, S., Department of Water Engineering, University of Tabriz, Tabriz, Iran; Shahabi, M., Department of Water Engineering, University of Tabriz, Tabriz, Iran; Jani, R., Department of Civil Engineering, Tabriz Branch, Islamic Azad University, Tabriz, Iran	Scientific Reports	2020	20452322
2372	Effect of processing route on the properties of LSCF-based composite cathode for IT-SOFC	Ahuja A., Gautam M., Sinha A., Sharma J., Patro P.K., Venkatasubramanian A.	Ahuja, A., School of Energy and Environment, Thapar University, Bhadson Road, Patiala, 147001, India; Gautam, M., School of Energy and Environment, Thapar University, Bhadson Road, Patiala, 147001, India; Sinha, A., Powder Metallurgy Division, Materials Group, Bhabha Atomic Research Centre, Vashi Complex, Navi Mumbai, 400703, India; Sharma, J., Powder Metallurgy Division, Materials Group, Bhabha Atomic Research Centre, Vashi Complex, Navi Mumbai, 400703, India; Patro, P.K., Powder Metallurgy Division, Materials Group, Bhabha Atomic Research Centre, Vashi Complex, Navi Mumbai, 400703, India; Venkatasubramanian, A., School of Energy and Environment, Thapar University, Bhadson Road, Patiala, 147001, India	Bulletin of Materials Science	2020	2504707
2373	Analytical review of clustering techniques and proximity measures	Mehta V., Bawa S., Singh J.	Mehta, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Singh, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Artificial Intelligence Review	2020	2692821
2374	High-speed, low-power and low-offset fully differential double-tail dynamic comparator using charge sharing technique	Chaudhary S., Pandey R.	Chaudhary, S., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Sadhana - Academy Proceedings in Engineering Sciences	2020	2562499
2375	High slew rate and low output resistance class-AB flipped voltage follower cell with increased current driving capability	Jindal C., Pandey R.	Jindal, C., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2020	2562499

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2376	Synthesis, cytotoxicity, pharmacokinetic profile, binding with DNA and BSA of new imidazo[1,2-a]pyrazine-benzo[d]imidazol-5-yl hybrids	Singh I., Luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Scientific Reports	2020	20452322
2377	DAIS: dynamic access and integration services framework for cloud-oriented storage systems	Kumar A., Bawa S.	Kumar, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Cluster Computing	2020	13867857
2378	Mehar approach for solving dual-hesitant fuzzy transportation problem with restrictions	Kumar A., Appadoo S.S., Kaur P.	Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Appadoo, S.S., Department Supply Chain Management, University of Manitoba, Winnipeg, MB R3T5V4, Canada; Kaur, P., PG Department of Mathematics, GSSDGS Khalsa College, Patiala, 147001, India	Sadhana - Academy Proceedings in Engineering Sciences	2020	2562499
2379	Ontology driven human activity recognition in heterogeneous sensor measurements	Hooda D., Rani R.	Hooda, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2020	18685137
2380	Order reduction mechanism for large-scale continuous-time systems using substructure preservation with dominant mode	Tiwari S.K., Samant P., Shinhmar M., Kaur G.	Tiwari, S.K., Thapar Institute of Engineering and Technology, Patiala, India; Samant, P., Thapar Institute of Engineering and Technology, Patiala, India; Shinhmar, M., Technobitz, Hoshiarpur, India; Kaur, G., Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2020	2562499
2381	A novel deep neural networks based path prediction	Joshi U., Kumar R.	Joshi, U., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Cluster Computing	2020	13867857
2382	Structural, optical, thermal and conducting properties of V2-xLixO5-δ (0.15 ≤ x ≤ 0.30) systems	Khan S., Singh K.	Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Scientific Reports	2020	20452322
2383	On weighted signed color partitions	Gupta V., Rana M., Sharma S.	Gupta, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Proceedings of the Indian Academy of Sciences: Mathematical Sciences	2020	2534142
2384	Multimedia utilization of non-computerized disguised voice and acoustic similarity measurement	Singh M.K., Singh A.K., Singh N.	Singh, M.K., Department of ECE, JUET, Guna, MP, India; Singh, A.K., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Singh, N., Department of ECE, JUET, Guna, MP, India	Multimedia Tools and Applications	2020	13807501
2385	Image encryption method using dependable multiple chaotic logistic functions	Gupta R., Pachauri R., Singh A.K.	Gupta, R., Jaypee University of Engineering and Technology, Guna, India; Pachauri, R., Jaypee University of Engineering and Technology, Guna, India; Singh, A.K., Thapar Institute of Engineering and Technology University, Punjab, India	Research Anthology on Artificial Intelligence Applications in Security	2020	
2386	PI Controller-Based Walking Mechanism of Quadraped Robot on a Side Ramp Path	Singh R., Bera T.K.	Singh, R., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India; Bera, T.K., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, India	2020 IEEE 15th International Conference on Industrial and Information Systems, ICIS 2020 - Proceedings	2020	
2387	Design and Comparative Analysis of Optimized Fopid Controller Using Neural Network Algorithm	Bhullar A.K., Kaur R., Sondhi S.	Bhullar, A.K., Punjabi University, Department of Electronics and Communication Engineering, Patiala, India; Kaur, R., Punjabi University, Department of Electronics and Communication Engineering, Patiala, India; Sondhi, S., Thapar Institute of Engg. and Tech, Department of Electrical and Instrumentation Engineering and Tech, Patiala, India	2020 IEEE 15th International Conference on Industrial and Information Systems, ICIS 2020 - Proceedings	2020	
2388	Resilient multilevel inverter topology with improved reliability	Chappa A., Gupta S., Sahu L.K., Gupta K.K.	Chappa, A., Department of Electrical Engineering, NIT Raipur, Raipur, Chhattisgarh, India; Gupta, S., Department of Electrical Engineering, NIT Raipur, Raipur, Chhattisgarh, India; Sahu, L.K., Department of Electrical Engineering, NIT Raipur, Raipur, Chhattisgarh, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Power Electronics	2020	17554535
2389	UWB aperture coupled circular fractal MIMO antenna with a complementary rectangular spiral defected ground structure (DGS) for 4G/WLAN/radar/satellite/international space station (ISS) communication systems	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Electromagnetic Waves and Applications	2020	9205071

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2390	Determination of Mercury Ions in Aqueous Medium and Urine Sample Using Thiocarbonylhydrazide Based Sensor	Kumar A., Kumar D., Chhibber M.	Kumar, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Patiala Punjab 147004, India; Kumar, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Patiala Punjab 147004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Patiala Punjab 147004, India, Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology Patiala Punjab 147004, India	ChemistrySelect	2020	23656549
2391	A Novel 'On-Off' Rhodamine Based Sensor for Colorimetric Detection of CN ⁻ and Its Application as Encoder-Decoder and Molecular Keypad Lock	Mehta R., Luxami V.	Mehta, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	ChemistrySelect	2020	23656549
2392	First biocatalytic Groebke-Blackburn-Bienaymé reaction to synthesize imidazo[1,2-a]pyridine derivatives using lipase enzyme	Budhiraja M., Kondabala R., Ali A., Tyagi V.	Budhiraja, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kondabala, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Tetrahedron	2020	404020
2393	Targeting Human Islet Amyloid Polypeptide Aggregation and Toxicity in Type 2 Diabetes: An Overview of Peptide-Based Inhibitors	Saini R.K., Goyal D., Goyal B.	Saini, R.K., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Goyal, D., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Chemical Research in Toxicology	2020	0893228X
2394	Comprehensive modeling, simulation and analysis of nanoparticles laden volumetric absorption based concentrating solar thermal systems in laminar flow regime	Singh A., Kumar M., Khullar V.	Singh, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, M., Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur, Jaipur, Rajasthan 302017, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Solar Energy	2020	0038092X
2395	2D/2d heterojunction of MoS ₂ /g-C ₃ N ₄ nanoflowers for enhanced visible-light-driven photocatalytic and electrochemical degradation of organic pollutants	Monga D., Ilager D., Shetti N.P., Basu S., Aminabhavi T.M.	Monga, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Ilager, D., Center for Electrochemical Science & Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580027, India; Shetti, N.P., Center for Electrochemical Science & Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580027, India; Basu, S., School of Chemistry and Biochemistry, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aminabhavi, T.M., Department of Pharmaceutics, SET's College of Pharmacy, Dharwad, Karnataka, India	Journal of Environmental Management	2020	3014797
2396	Analysis of three-dimensional bending deformations and failure of wet and dry laminates	Jain D., Zhao Y.Q., Batra R.C.	Jain, D., Department of Biomedical Engineering and Mechanics, M/C 0219, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Zhao, Y.Q., Department of Biomedical Engineering and Mechanics, M/C 0219, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States, School of Aerospace Engineering & Applied Mechanics, Key Laboratory of the Ministry of Education for Advanced Civil Engineering Materials, Tongji University, Shanghai, 200092, China; Batra, R.C., Department of Biomedical Engineering and Mechanics, M/C 0219, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States	Composite Structures	2020	2638223
2397	Charge transport mechanism in BaFe ₁₂ O ₁₉ and BaFe ₁₁ CoO ₁₉	Mahadevan S., Sharma P.	Mahadevan, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Magnetism and Magnetic Materials	2020	3048853
2398	Modeling of solid-liquid flow inside conical diverging sections using computational fluid dynamics approach	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand 831014, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	International Journal of Mechanical Sciences	2020	207403
2399	A new Hall-effect enabled voltage amplifier device based on magnetic and thermal properties of materials	Kumar A., Ganguli S.	Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India	Journal of Magnetism and Magnetic Materials	2020	3048853
2400	Identification and nature detection of series and shunt faults in types I, III and IV wind turbines and PV integrated hybrid microgrid with a fuzzy logic-based adaptive protection scheme	Singh M., Basak P.	Singh, M., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Basak, P., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	IET Generation, Transmission and Distribution	2020	17518687

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2401	Deciphering the Inhibitory Mechanism of hIAPP-Derived Fragment Peptide Against hIAPP Aggregation in Type 2 Diabetes**	Kaur A., Goyal B.	Kaur, A., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology Patiala-, Punjab, 147004, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology Patiala-, Punjab, 147004, India	ChemistrySelect	2020	23656549
2402	A novel astrophysics-based framework for prediction of binding affinity of glucose binder	Kondabala R., Kumar V., Ali A., Kaur M.	Kondabala, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Kumar, V., Department of Computer Science and Engineering, National Institute of Technology Hamirpur, Himachal Pradesh, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Kaur, M., Department of Computer and Communication Engineering, School of Computing Information Technology, Manipal University Jaipur, Jaipur, Rajasthan, India	Modern Physics Letters B	2020	2179849
2403	Inter-carrier interference analysis for massive MIMO fractional Fourier transform-OFDM systems over time-varying channels	Chawla T., Kansal A.	Chawla, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Communication Systems	2020	10745351
2404	An Effective Approach for Noise Robust and Rotation Invariant Handwritten Character Recognition Using Zernike Moments Features and Optimal Similarity Measure	Singh C., Aggarwal A.	Singh, C., Department of Computer Science, Punjabi University, Patiala, India; Aggarwal, A., Department of Computer Science, Punjabi University, Patiala, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Applied Artificial Intelligence	2020	8839514
2405	Wireless sensor and actuator network(s) and its significant impact on agricultural domain	Khanna A., Kaur S.	Khanna, A., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Kaur, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	PDGC 2020 - 2020 6th International Conference on Parallel, Distributed and Grid Computing	2020	
2406	Swarm intelligence based hierarchical routing protocols study in WSNs	Mehta D., Saxena S.	Mehta, D., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, India, Lovely Professional University, Phagwara, India; Saxena, S., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, India	PDGC 2020 - 2020 6th International Conference on Parallel, Distributed and Grid Computing	2020	
2407	An optimal multi-criteria decision-making framework to select best multispecialty hospital for surgery	Petwal H., Rani R.	Petwal, H., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India	PDGC 2020 - 2020 6th International Conference on Parallel, Distributed and Grid Computing	2020	
2408	Semantic driven healthcare monitoring and disease detection framework from heterogeneous sensor data	Hooda D., Rani R.	Hooda, D., Thapar Institute of Engineering and Technology, Computers Science and Engineering Department, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Computers Science and Engineering Department, Patiala, India	PDGC 2020 - 2020 6th International Conference on Parallel, Distributed and Grid Computing	2020	
2409	Osmotic computing and related challenges: A survey	Kaur A., Kumar R., Saxena S.	Kaur, A., Thapar Institute of Engg. Tech., Computer Science and Engg. Dept., Patiala, India; Kumar, R., Thapar Institute of Engg. Tech., Computer Science and Engg. Dept., Patiala, India; Saxena, S., Thapar Institute of Engg. Tech., Computer Science and Engg. Dept., Patiala, India	PDGC 2020 - 2020 6th International Conference on Parallel, Distributed and Grid Computing	2020	
2410	Evolution of transparent graphene oxide thin films synthesized using langmuir- blodgett technique	Kaur A., Goyal S., Brar L.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2020	0094243X
2411	Microwave Absorption and Reflection Behaviour of Polypyrrole-PMMA-Co0.5Ni0.5Fe2O4 Nanocomposite in X-band	Gill N., Kaur N., Sharma A.L., Gupta V., Tomar M., Pandey O.P., Singh D.P.	Gill, N., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, N., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, A.L., CSIR - Central Scientific Instrument Organisation (CSIR-CSIO), Chandigarh, 160030, India; Gupta, V., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Tomar, M., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, D.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	AIP Conference Proceedings	2020	0094243X
2412	Synthesis and characterization of solution processed MXene	Garg R., Agarwal A., Agarwal M.	Garg, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering Technology, Patiala, 147001, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering Technology, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering Technology, Patiala, 147001, India	AIP Conference Proceedings	2020	0094243X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2413	Estimation of magnetic anisotropy constant of magnetic nanoparticles	Kaur N., Tiwari S.D.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2020	0094243X
2414	Effect of annealing on structural and magnetic properties of manganese ferrite nanoparticles	Yashpreet, Chudasama B.	Yashpreet, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Chudasama, B., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	AIP Conference Proceedings	2020	0094243X
2415	Effect of silicon thickness on the performance of conventional junctionless field effect transistor	Agarwal M., Narula V.	Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Narula, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, India	AIP Conference Proceedings	2020	0094243X
2416	Effect of soft repulsive wall on the bulk phases of thermotropic liquid crystals	Kaur J., Deb D.	Kaur, J., Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India; Deb, D., Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India	AIP Conference Proceedings	2020	0094243X
2417	Computational analysis of cesium based inorganic perovskite solar cells using SCAPS-1D	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	AIP Conference Proceedings	2020	0094243X
2418	Effect of gate misalignment on the performance of rectangular core-shell based junctionless field effect transistor	Narula V., Agarwal M.	Narula, V., Thapar Institute of Engineering and Technology (Deemed to be University), Patiala Punjab, India; Agarwal, M., Thapar Institute of Engineering and Technology (Deemed to be University), Patiala Punjab, India	AIP Conference Proceedings	2020	0094243X
2419	Ultrasensitive Electrochemical Impedance Detection of Mycoplasma agalactiae DNA by Low-Cost and Disposable Au-Decorated NiO Nanowall Electrodes	Urso M., Tumino S., Bruno E., Bordonaro S., Marletta D., Loria G.R., Avni A., Shacham-Diamand Y., Priolo F., Mirabella S.	Urso, M., Dipartimento di Fisica e Astronomia Ettore Majorana, Università di Catania, IMM-CNR, via S. Sofia 64, Catania, 95123, Italy; Tumino, S., Dipartimento di Agricoltura, Alimentazione e Ambiente, Università di Catania, via Valdisavoia 5, Catania, 95123, Italy, Oie Ref. Laboratory for Contagious Agalactia-Istituto Zooprofilattico Sperimentale della Sicilia, via Gino Marinuzzi 3, Palermo, 90129, Italy; Bruno, E., Dipartimento di Fisica e Astronomia Ettore Majorana, Università di Catania, IMM-CNR, via S. Sofia 64, Catania, 95123, Italy; Bordonaro, S., Dipartimento di Agricoltura, Alimentazione e Ambiente, Università di Catania, via Valdisavoia 5, Catania, 95123, Italy; Marletta, D., Dipartimento di Agricoltura, Alimentazione e Ambiente, Università di Catania, via Valdisavoia 5, Catania, 95123, Italy; Loria, G.R., Oie Ref. Laboratory for Contagious Agalactia-Istituto Zooprofilattico Sperimentale della Sicilia, via Gino Marinuzzi 3, Palermo, 90129, Italy; Avni, A., School of Plant Sciences and Food Security, Tel Aviv University, Tel-Aviv, 69978, Israel; Shacham-Diamand, Y., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, 69978, Israel, TAU/TIET Food Security Centre of Excellence (T2FSCOE), Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Priolo, F., Dipartimento di Fisica e Astronomia Ettore Majorana, Università di Catania, IMM-CNR, via S. Sofia 64, Catania, 95123, Italy; Mirabella, S., Dipartimento di Fisica e Astronomia Ettore Majorana, Università di Catania, IMM-CNR, via S. Sofia 64, Catania, 95123, Italy	ACS Applied Materials and Interfaces	2020	19448244
2420	Performance analysis of iec 61850 messages in lte communication for reactive power management in microgrids	Hussain S.M.S., Aftab M.A., Ustun T.S.	Hussain, S.M.S., Fukushima Renewable Energy Institute (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0215, Japan; Aftab, M.A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Ustun, T.S., Fukushima Renewable Energy Institute (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0215, Japan	Energies	2020	19961073
2421	Efficient deployment with throughput maximization for uavs communication networks	Sayeed M.A., Kumar R., Sharma V., Sayeed M.A.	Sayeed, M.A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, V., School of Electronics, Electrical Engineering and Computer Science (EECS), Queen's University Belfast (QUB), Belfast, BT7 1NN, United Kingdom; Sayeed, M.A., Department of Information and Technology, Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Raebareilly Road, Lucknow, 226025, India	Sensors (Switzerland)	2020	14248220
2422	Research trends in green product for environment: A bibliometric perspective	Bhardwaj A.K., Garg A., Ram S., Gajpal Y., Zheng C.	Bhardwaj, A.K., L.M. Thapar School of Management (Dera Bassi Campus), Thapar Institute of Engineering & Technology, Patiala, 147004, India; Garg, A., L.M. Thapar School of Management (Dera Bassi Campus), Thapar Institute of Engineering & Technology, Patiala, 147004, India; Ram, S., L.M. Thapar School of Management (Dera Bassi Campus), Thapar Institute of Engineering & Technology, Patiala, 147004, India; Gajpal, Y., Asper School of Business, University of Manitoba, Winnipeg, MB R3T 5V4, Canada; Zheng, C., School of Finance and Trade, Wenzhou Business College, Wenzhou, 325035, China	International Journal of Environmental Research and Public Health	2020	16617827
2423	Design and simulation of piezoelectric nano cylindrical hollow structure for energy harnessing applications	Tyagi N., Mahajan A.N., Gaur A.M.	Tyagi, N., Electronics and Communication Engineering Department, MAIT, Maharaja Agrasen University, H.P. Baddi, India; Mahajan, A.N., Electronics and Communication Engineering Department, MAIT, Maharaja Agrasen University, H.P. Baddi, India; Gaur, A.M., Electrical and Instrumentation Engineering Department (EIED), Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Energy Harvesting and Systems	2020	23298774

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2424	Intelligent Maintenance Systems and Predictive Manufacturing	Lee J., Ni J., Singh J., Jiang B., Azamfar M., Feng J.	Lee, J., Nsf Iucrc Intelligent Maintenance Systems (IMS), Department of Mechanical Engineering, University of Cincinnati, Cincinnati, OH 45221-0072, United States; Ni, J., Department of Mechanical Engineering, University of Michigan, Ann Arbor, MI 48105, United States; Singh, J., Nsf Iucrc Intelligent Maintenance Systems (IMS), Department of Mechanical Engineering, University of Cincinnati, Cincinnati, OH 45221-0072, United States, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Jiang, B., Department of Mechanical Engineering, University of Michigan, Ann Arbor, MI 48105, United States; Azamfar, M., Nsf Iucrc Intelligent Maintenance Systems (IMS), Department of Mechanical Engineering, University of Cincinnati, Cincinnati, OH 45221-0072, United States; Feng, J., Nsf Iucrc Intelligent Maintenance Systems (IMS), Department of Mechanical Engineering, University of Cincinnati, Cincinnati, OH 45221-0072, United States	Journal of Manufacturing Science and Engineering, Transactions of the ASME	2020	10871357
2425	Fuzzy logic based geocast routing in vehicular ad hoc network	Husain A., Singh S.P., Sharma S.C.	Husain, A., Department of CS and IT, Faculty of Engineering & Technology, MJP Rohilkhand University, Bareilly, 243 006, India; Singh, S.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Sharma, S.C., Wireless Network and Cloud Computing Lab, Electronics and Computer Discipline, DPT, IIT, Roorkee, 247 667, India	Journal of Scientific and Industrial Research	2020	224456
2426	Properties of fly ash geopolymers modified with red mud and silica fume: a comparative study	Bajpai R., Shrivastava A., Singh M.	Bajpai, R., Department of Civil Engineering, Birla Institute of Technology and Science Pilani, Pilani Campus, Pilani, 333031, India; Shrivastava, A., Department of Civil Engineering, Birla Institute of Technology and Science Pilani, Pilani Campus, Pilani, 333031, India; Singh, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	SN Applied Sciences	2020	25233971
2427	An Efficient Hybrid Approach for Brain Tumor Detection in MR Images using Hadoop-MapReduce	Chahal P.K., Pandey S.	Chahal, P.K., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Pandey, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, Punjab, India	Proceedings - IEEE Congress on Cybermatics: 2020 IEEE International Conferences on Internet of Things, iThings 2020, IEEE Green Computing and Communications, GreenCom 2020, IEEE Cyber, Physical and Social Computing, CPSCom 2020 and IEEE Smart Data, SmartData 2020	2020	
2428	Reliability based partial safety factor of concrete containing nano silica and silica fume	Nanda A.K., Bansal P.P., Kumar M.	Nanda, A.K., RIMT University, Mandi Gobindgarh, 147301, India; Bansal, P.P., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, M., School of Engineering and Technology, BML Munjal University, Gurgaon, India	Computers and Concrete	2020	15988198
2429	SOA-MZI based 4 × 4 interconnected crossbar photonic wavelength switching for datacenter load balancing	Kaur H., Kaler R.S.	Kaur, H., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, Punjab, India; Kaler, R.S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, Punjab, India	Optical Engineering	2020	913286
2430	Deep learning under H2O framework: A novel approach for quantitative analysis of discharge coefficient in sluice gates	Ghorbani M.A., Salmasi F., Saggi M.K., Bhatia A.S., Kahya E., Norouzi R.	Ghorbani, M.A., Sustainable Management of Natural Resources and Environment Research Group, Faculty of Environment and Labour Safety, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Salmasi, F., Department of Water Engineering, Faculty of Agriculture, University of Tabriz, Tabriz, Iran; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, India; Bhatia, A.S., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kahya, E., Department of Civil Engineering, Istanbul Technical University, Istanbul, Turkey; Norouzi, R., Department of Water Engineering, Faculty of Agriculture, University of Tabriz, Tabriz, Iran	Journal of Hydroinformatics	2020	14647141
2431	DwaRa: A Deep Learning-Based Dynamic Toll Pricing Scheme for Intelligent Transportation Systems	Shukla A., Bhattacharya P., Tanwar S., Kumar N., Guizani M.	Shukla, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India, King Abdulaziz University, Jeddah, 11663, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan; Guizani, M., Department of Computer Science and Engineering, Qatar University, Doha, Qatar	IEEE Transactions on Vehicular Technology	2020	189545
2432	Physicochemical, functional and rheological properties of grass pea (Lathyrus sativus L.) flour as influenced by particle size	Bala M., Handa S., D M., Singh R.K.	Bala, M., ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana, Punjab, India; Handa, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; D, M., ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana, Punjab, India; Singh, R.K., ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana, Punjab, India	Heliyon	2020	24058440

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2433	Realizing the Potential of Internet of Things for Smart Tourism with 5G and AI	Wang W., Kumar N., Chen J., Gong Z., Kong X., Wei W., Gao H.	Wang, W., State Key Lab. of Internet of Things for Smart City and Dept. of Computer and Information Science, University of Macau999078, Macau, Faculty of Information Technology, Macau University of Technology999078, Macau; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India, Asia University Taiwan, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India; Chen, J., University of Macau, Macau, Northeastern University, Shenyang, China; Gong, Z., Faculty of Information Technology, Macau University of Technology999078, Macau; Kong, X., Zhejiang University of Technolog, China; Wei, W., Xi'An University of Technology, China; Gao, H., Shanghai University, China	IEEE Network	2020	8908044
2434	Hybrid Microgrid Many-Objective Sizing Optimization with Fuzzy Decision	Cao B., Dong W., Lv Z., Gu Y., Singh S., Kumar P.	Cao, B., State Key Laboratory of Reliability and Intelligence of Electrical Equipment, Hebei University of Technology, Tianjin, China, School of Artificial Intelligence, HebeiUniversity of Technology, Tianjin, 300401, China; Dong, W., State Key Laboratory of Reliability and Intelligence of Electrical Equipment, Hebei University of Technology, Tianjin, China; Lv, Z., School of Data Science and Software Engineering, Qingdao University, Qingdao, China; Gu, Y., School of Automation, Guangdong University of Petrochemical Technology, Maoming, Guangdong, China, Beijing University of Chemical Technology, Beijing, 100029, China, Goethe-University, Frankfurt, 60438, Germany; Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Fuzzy Systems	2020	10636706
2435	COVID-19 Time Series Forecast Using Transmission Rate and Meteorological Parameters as Features	Mousavi M., Salgotra R., Holloway D., Gandomi A.H.	Mousavi, M., University of Tasmania, Australia, University of Technology Sydney, Australia; Salgotra, R., Thapar Institute of Engineering and Technology, India; Holloway, D., University of Tasmania, Australia; Gandomi, A.H., University of Technology Sydney, Australia	IEEE Computational Intelligence Magazine	2020	1556603X
2436	Performance of Mechanical Joints Prepared from Carbon-Fiber-Reinforced Polymer Nanocomposites under Accelerated Environmental Aging	Kumar M., Saini J.S., Bhunia H.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Engineering and Performance	2020	10599495
2437	Hydrolysis versus aminolysis of a potential nerve agent tabun: a computational reaction mechanism study	Mandal D.	Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Theoretical Chemistry Accounts	2020	1432881X
2438	Generative adversarial network-convolution neural network based breast cancer classification using optical coherence tomographic images	Kansal S., Goel S., Bhattacharya J., Srivastava V.	Kansal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Goel, S., Csed, Bennett University, Greater Noida, Uttar Pradesh, India; Bhattacharya, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Laser Physics	2020	1054660X
2439	An Ultrasound Image Enhancement Method Using Neutrosophic Similarity Score	Bharti P., Mittal D.	Bharti, P., Thapar Institute of Engineering and Technology, Patiala, India; Mittal, D., Thapar Institute of Engineering and Technology, Patiala, India	Ultrasonic Imaging	2020	1617346
2440	Graphene/graphitic carbon nitride-based ternary nanohybrids: Synthesis methods, properties, and applications for photocatalytic hydrogen production	Singla S., Sharma S., Basu S., Shetti N.P., Reddy K.R.	Singla, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 027, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	FlatChem	2020	24522627
2441	Ferromagnetic transition metal-doped CdS nanoparticles: a comparative study	Jindal S., Sharma P.	Jindal, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2020	9574522
2442	Combined functional link adaptive filter for nonlinear acoustic echo cancellation	Raghuwanshi J., Mishra A., Singh N.	Raghuwanshi, J., Department of Electronics and Communication Engineeirng, Jaypee University of Engineering and Technology, A.B. Road, Guna, India; Mishra, A., Department of Electronics an Communication Engineeirng, Thapar Institute of Engineering and Technology (A Deemed to be University), Patiala, India; Singh, N., Department of Electronics and Communication Engineeirng, Jaypee University of Engineering and Technology, A.B. Road, Guna, India	Analog Integrated Circuits and Signal Processing	2020	9251030
2443	Multipoint tool positioning of a toroidal end mill for five-axis machining of generalized tensor product Bézier surfaces	Duvedi R.K., Singh M., Bedi S., Mann S.	Duvedi, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, M., University of Waterloo, Waterloo, ON, Canada; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Advanced Manufacturing Technology	2020	2683768

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2444	Linguistic Interval-Valued Pythagorean Fuzzy Sets and Their Application to Multiple Attribute Group Decision-making Process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering, Technology, Deemed University, Patiala, Punjab 147004, India	Cognitive Computation	2020	18669956
2445	Synthesis and optimisation of MXene for supercapacitor application	Garg R., Agarwal A., Agarwal M.	Garg, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Science: Materials in Electronics	2020	9574522
2446	Designing of fog based FBCMI2E Model using machine learning approaches for intelligent communication systems	Singh S.P., Sharma A., Kumar R.	Singh, S.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Computer Communications	2020	1403664
2447	Customized NOMA and Sector Model for Battery Efficient beyond 5G Green Networks	Jain P., Gupta A., Tanwar S., Kumar N.	Jain, P., Lovely Professional University, India; Gupta, A., Lovely Professional University, India; Tanwar, S., Nirma University, India; Kumar, N., Thapar Institute of Engineering and Technology, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Network	2020	8908044
2448	Di-2-pyridylketone-N1-substituted thiosemicarbazone derivatives of copper(II): Biosafe antimicrobial potential and high anticancer activity against immortalized L6 rat skeletal muscle cells	Lobana T.S., Kaushal M., Bala R., Nim L., Paul K., Arora D.S., Bhatia A., Arora S., Jasinski J.P.	Lobana, T.S., Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Kaushal, M., Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Bala, R., Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Nim, L., Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, D.S., Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Bhatia, A., Department of Botanical & Environmental sciences, Guru Nanak Dev University, Amritsar, 143 005, India; Arora, S., Department of Botanical & Environmental sciences, Guru Nanak Dev University, Amritsar, 143 005, India; Jasinski, J.P., Department of Chemistry, Keene State College, Keene, NH 03435, United States	Journal of Inorganic Biochemistry	2020	1620134
2449	Linearly tapered meander line broadband monopole tag antenna with T-match for Ultra High Frequency Radio Frequency Identification applications	Bansal A., Sharma S., Khanna R.	Bansal, A., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Khanna, R., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290
2450	A novel comparative approach on inverse heat transfer analysis of an experimental setup of an extended surface	Singhal M., Singla R.K., Goyal K.	Singhal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Communications in Heat and Mass Transfer	2020	7351933
2451	A passive approach for the detection of splicing forgery in digital images	Kaur N., Jindal N., Singh K.	Kaur, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2020	13807501
2452	Four stage median-average filter for healing high density salt and pepper noise corrupted images	Garg B., Arya K.V.	Garg, B., ECED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Arya, K.V., ABV-Indian Institute of Information Technology and Management Gwalior, Gwalior, 474015, India	Multimedia Tools and Applications	2020	13807501
2453	Hexa-band suppression characteristics from a fork-shaped UWB-MIMO antenna loaded with complementary split-ring resonator and slots	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Electromagnetic Waves and Applications	2020	9205071
2454	Bioactive calcium silicate glass synthesized from sustainable biomass wastes	Punj S., Singh K.	Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Biofuels, Bioproducts and Biorefining	2020	1932104X
2455	Targeting gut barrier dysfunction with phytotherapies: Effective strategy against chronic diseases	Dey P.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Pharmacological Research	2020	10436618

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2456	A novel approach for detecting roundabouts in maps based on analysis of core map data	Singh R., Rana P.S., Jindal N.	Singh, R., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, P.S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2020	13807501
2457	Energy loss and associated parameters in energy spectra of Li, C and O ions in Nickel foils	Kumar S., Rani S., Sharma P., Khan S.A., Diwan P.K.	Kumar, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Rani, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Sharma, P., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Khan, S.A., Inter University Accelerator Centre, P.O. Box 10502, New Delhi, 110 067, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Vacuum	2020	0042207X
2458	Microstructure evolution and mechanical properties of double-sided friction stir welding between AA6061-T6 and AA7075-T651	Garg A., Raturi M., Garg A., Bhattacharya A.	Garg, A., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar, India; Raturi, M., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar, India; Garg, A., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bhattacharya, A., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar, India	CIRP Journal of Manufacturing Science and Technology	2020	17555817
2459	Development of sulphur-doped carbon monolith derived from phenol-formaldehyde resin for fixed bed CO ₂ adsorption	Singh J., Bhunia H., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology Punjab Patiala-147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Punjab, Patiala 147004, India	Environmental Technology and Innovation	2020	23521864
2460	Low temperature coefficient and low line sensitivity subthreshold curvature-compensated voltage reference	Thakur A., Pandey R., Rai S.K.	Thakur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2020	989886
2461	Enhanced dielectric properties of the poly(vinylidene fluoride)-CaCu ₃ Ti ₄ O ₁₂ nanocomposite thick films by quenching in ice water	Kaur S., Sharma A.L., Kumar A., Singh D.P.	Kaur, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, A.L., Thin Film Group, CSIR- CSIO, Chandigarh, 160030, India; Kumar, A., CSIR- National Physical Laboratory, New Delhi, 110012, India; Singh, D.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Materials Chemistry and Physics	2020	2540584
2462	Sustainable environmental management and related biofuel technologies	Sharma S., Kundu A., Basu S., Shetti N.P., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kundu, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, 580 027, India; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka 580 002, India	Journal of Environmental Management	2020	3014797
2463	A new framework for intensification of energy efficiency in commercial and residential use by imposing social, technical and environmental constraints	Kumar P., Thanki D.V., Singh S., Nikolovski S.	Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Thanki, D.V., Logistics Department, Chromeni Steels Private Limited, Ratadiya, Mundra, Gujarat 370410, India; Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering Computing & Information Technology, Osijek, 31000, Croatia	Sustainable Cities and Society	2020	22106707
2464	Erosive wear behaviour of HVOF-sprayed Ni-20Cr2O3 coating on pipeline materials	Bansal A., Goyal D.K., Singh P., Singla A.K., Gupta M.K., Bala N., Kolte J., Setia G.	Bansal, A., Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India; Goyal, D.K., Mechanical Engineering Department, IK Gujral Punjab Technical University, Main Campus, Kapurthala, Punjab, India; Singh, P., Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India; Singla, A.K., Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India; Gupta, M.K., Key Laboratory of High Efficiency and Clean Mechanical Manufacture, Ministry of Education, School of Mechanical Engineering, Shandong University, China; Bala, N., Research and Innovation Centre, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Setia, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Refractory Metals and Hard Materials	2020	2634368
2465	Evolutionary modelling of the COVID-19 pandemic in fifteen most affected countries	Salgotra R., Gandomi M., Gandomi A.H.	Salgotra, R., Dept. of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Gandomi, M., School of Civil Engineering, University of Tehran, Tehran, Iran; Gandomi, A.H., Faculty of Engineering & Information Technology, University of Technology Sydney, NSW, 2007, Australia	Chaos, Solitons and Fractals	2020	9600779

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2466	Strategic corporate social responsibility, capabilities, and opportunities: Empirical substantiation and futuristic implications	Rameshwar R., Saha R., Sanyal S.N.	Rameshwar, R., L.M. Thapar School of Management, Thapar Institute of Engg. & Tech. (Deemed-to-be University) Patiala Punjab, India; Saha, R., Department of Management, SRM University, Delhi-NCR, Sonapat, Haryana, India; Sanyal, S.N., Department of Management, Globsyn Business School, Kolkata, India	Corporate Social Responsibility and Environmental Management	2020	15353958
2467	Influence of cationic doping at different sites in NaNbO ₃ on the photocatalytic degradation of methylene blue dye	Jana R., Gupta A., Choudhary R., Pandey O.P.	Jana, R., Department of Nanoscience and Technology, Mount Carmel College (Autonomous), Bengaluru, 560012, India; Gupta, A., Functional Materials Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Choudhary, R., Functional Materials Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Hybrid Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Sol-Gel Science and Technology	2020	9280707
2468	A reliable and cost-efficient code dissemination scheme for smart sensing devices with mobile vehicles in smart cities	Singh P., Kaur A., Kumar N.	Singh, P., School of Computer Science and Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Kaur, A., School of Computer Science and Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India, Department of Computer Science and Information Engineering, Asia University, Taiwan	Sustainable Cities and Society	2020	22106707
2469	Condition monitoring of transformer breather using a capacitive moisture sensor	Kumar S., Kumar L., Islam T., Raina K.K.	Kumar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, L., Department of Physics and Astrophysics, University of Delhi, New Delhi, India; Islam, T., Department of Electrical Engineering, Jamia Millia Islamia (A Central University), New Delhi, India; Raina, K.K., Dit University, Dehradun, India, Thapar Institute of Engineering and Technology, Patiala, 147001, India	IEEE Transactions on Industrial Electronics	2020	2780046
2470	Experimental study of biosorption of fluoride by immobilized beads of zeolite NaA and Nostoc sp. (BTA394) using a continuous flow system	Mukherjee S., Khan A.A., Barman S., Halder G.	Mukherjee, S., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, India; Khan, A.A., Department of Chemical Engineering, Vignans' Foundation for Science, Technology and Research, Guntur, India; Barman, S., Department of Chemical Engineering, Thapar University, Patiala, India; Halder, G., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, India	Environmental Progress and Sustainable Energy	2020	19447442
2471	SPAMI: A cognitive spam protector for advertisement malicious images	Makkar A., Kumar N., Zomaya A.Y., Dhiman S.	Makkar, A., Computer Science Engineering Department, Chandigarh University, Chandigarh, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia; Zomaya, A.Y., School of Computer Science, University of Sydney, Australia; Dhiman, S., Computer Science Engineering Department, Chandigarh University, Chandigarh, India	Information Sciences	2020	200255
2472	Hydrogen augmentation of biogas through dry reforming over bimetallic nickel-cobalt catalysts supported on titania	Sharma H., Dhir A.	Sharma, H., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Fuel	2020	162361
2473	Design of a Tri-band Patch Antenna with Back Reflector for Off-Body Communication	Gupta A., Kumar V.	Gupta, A., Thapar institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Shri Sai College of Engineering and Technology, Badhani, Pathankot, India	Wireless Personal Communications	2020	9296212
2474	New lightweight Anti-SAT block design and obfuscation technique to thwart removal attack	Rathor V.S., Garg B., Sharma G.K.	Rathor, V.S., Department of Computer Science Engineering, Bennett University, Greater Noida, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, G.K., ABV-Indian Institute of Information Technology and Management Gwalior, India	Integration	2020	1679260
2475	Restoration of highly salt-and-pepper-noise-corrupted images using novel adaptive trimmed median filter	Garg B.	Garg, B., Thapar Institute of Engineering and Technology, Patiala, India	Signal, Image and Video Processing	2020	18631703
2476	Blockchain for 5G: A Prelude to Future Telecommunication	Praveen G., Chamola V., Hassija V., Kumar N.	Praveen, G., BITS-Pilani, India; Chamola, V., BITS-Pilani, India; Hassija, V., IIIT Noida, India; Kumar, N., Thapar University, King Abdulaziz University, Asia University, Saudi Arabia	IEEE Network	2020	8908044
2477	A forefront to machine translation technology: deployment on the cloud as a service to enhance QoS parameters	Singh M., Kumar R., Chana I.	Singh, M., Language Technology and Machine Learning Research Lab, CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Soft Computing	2020	14327643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2478	A ranking method based on possibility mean for multi-attribute decision making with single valued neutrosophic numbers	Garai T., Garg H., Roy T.K.	Garai, T., Department of Mathematics, Syamsundar College, Purba Bardhaman, Syamsundar, West Bengal 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Roy, T.K., Department of Mathematics, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, West Bengal 711103, India	Journal of Ambient Intelligence and Humanized Computing	2020	18685137
2479	Anti-infectives from mangrove endophytic fungi	Deshmukh S.K., Agrawal S., Prakash V., Gupta M.K., Reddy M.S.	Deshmukh, S.K., TERI – Deakin Nano Biotechnology Centre, The Energy and Resources Institute, Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Agrawal, S., TERI – Deakin Nano Biotechnology Centre, The Energy and Resources Institute, Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India, Indian Council of Medical Research (ICMR), IJMR Unit, V Ramalingaswami Bhawan, Ansari Nagar-AIIMS, Delhi, 110029, India; Prakash, V., Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh, India; Gupta, M.K., TERI – Deakin Nano Biotechnology Centre, The Energy and Resources Institute, Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	South African Journal of Botany	2020	2546299
2480	Endolichenic fungi: A hidden source of bioactive metabolites	Agrawal S., Deshmukh S.K., Reddy M.S., Prasad R., Goel M.	Agrawal, S., Indian Council of Medical Research (ICMR), IJMR Unit, V Ramalingaswami Bhawan, Ansari Nagar-AIIMS, Delhi, 110029, India; Deshmukh, S.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Prasad, R., Department of Botany, Mahatma Gandhi Central University, Motihari, Bihar 845401, India; Goel, M., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, 110003, India	South African Journal of Botany	2020	2546299
2481	Comparison of Different Hydrophobic Treatments for the Durability Improvement of Palmyra Natural Fiber Composites under Hydrothermal Ageing Environments	Jain D., Sekhon H., Bera T.K., Jain R.	Jain, D., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India, Department of Biomedical Engineering and Mechanics, Virginia Polytechnic Institute and State University, Blacksburg, VA, United States; Sekhon, H., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Jain, R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Natural Fibers	2020	15440478
2482	Anonymous Lightweight Chaotic Map-Based Authenticated Key Agreement Protocol for Industrial Internet of Things	Srinivas J., Das A.K., Wazid M., Kumar N.	Srinivas, J., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Wazid, M., Cyber Security and Networks Lab, Innopolis University, Innopolis, 420500, Russian Federation; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India	IEEE Transactions on Dependable and Secure Computing	2020	15455971
2483	An improved block based joint reversible data hiding in encrypted images by symmetric cryptosystem	Bhardwaj R., Aggarwal A.	Bhardwaj, R., Thapar University, Computer Science & Engineering Department, Patiala, 147004, India; Aggarwal, A., Thapar University, Computer Science & Engineering Department, Patiala, 147004, India	Pattern Recognition Letters	2020	1678655
2484	Head Loss Investigations Inside 90° Pipe Bend for Conveying Of Fine Coal–Water Slurry Suspension	Singh J.P., Kumar S., Mohapatra S.K.	Singh, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Coal Preparation and Utilization	2020	19392699
2485	Evaluation of corrosion inhibition and self healing capabilities of nanoclay and tung oil microencapsulated epoxy coatings on rebars in concrete	Sharma N., Sharma S., Sharma S.K., Mehta R.	Sharma, N., Research Scholar, TIET VT Center of Excellence in Emerging Materials, Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Affiliate Faculty, TIET VT Center of Excellence in Emerging Materials, Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S.K., Affiliate Faculty, TIET VT Center of Excellence in Emerging Materials, Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., Research Fellow, Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2020	9500618
2486	Spatial Patterns of Selenium and Profiling of Se-Tolerant Bacillus Strains in Shiwalik Foot-Hills	Tiwana A.S., Baby, Bandana, Verma A., Gupta S.	Tiwana, A.S., Department of Geography, Mata Gujri College (Autonomous), Fatehgarh Sahib, India; Baby, Department of Microbiology, Mata Gujri College (Autonomous), Fatehgarh Sahib, India; Bandana, Department of Microbiology, Mata Gujri College (Autonomous), Fatehgarh Sahib, India; Verma, A., School of Energy and Environment, Thapar University, Patiala, Punjab, India; Gupta, S., Department of Microbiology, Mata Gujri College (Autonomous), Fatehgarh Sahib, India	Geomicrobiology Journal	2020	1490451
2487	Safeguarding unmanned aerial systems: An approach for identifying malicious aerial nodes	Sayeed M.A., Kumar R., Sharma V.	Sayeed, M.A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, V., Information Systems Technology and Design (ISTD), Singapore University of Technology and Design, Singapore, Singapore	IET Communications	2020	17518628

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2488	Traceless directing groups: A novel strategy in regiodivergent C-H functionalization	Rani G., Luxami V., Paul K.	Rani, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Chemical Communications	2020	13597345
2489	Magnetorheological finishing of UHMWPE acetabular cup surface and its performance analysis	Arora K., Singh A.K.	Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, India	Materials and Manufacturing Processes	2020	10426914
2490	Analysis of triple band rejected compact planar octagon shape monopole antenna for UWB applications	Singh G., Singh U.	Singh, G., Deemed University, Thapar Institute of Engineering Technology, Department of ECE, Patiala, India; Singh, U., Deemed University, Thapar Institute of Engineering Technology, Department of ECE, Patiala, India	2020 International Symposium on Networks, Computers and Communications, ISNCC 2020	2020	
2491	Review detection of bacterial pathogens and antibiotic residues in chicken meat: a review	Kumar H., Bhardwaj K., Kaur T., Nepovimova E., Kuča K., Kumar V., Bhatia S.K., Dhanjal D.S., Chopra C., Singh R., Guleria S., Bhalla T.C., Verma R., Kumar D.	Kumar, H., School of Bioengineering & Food Technology, Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, 173229, India; Bhardwaj, K., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, 173229, India; Kaur, T., Department of Agriculture, Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib, Punjab 140117, India; Nepovimova, E., Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, 50003, Czech Republic; Kuča, K., Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, 50003, Czech Republic; Kumar, V., School of Water, Energy and Environment, Cranfield University, Cranfield, MK43 0AL, United Kingdom; Bhatia, S.K., Department of Biological Engineering, College of Engineering, Konkuk University, Seoul, 05029, South Korea; Dhanjal, D.S., School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; Chopra, C., School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; Singh, R., School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Bhalla, T.C., Department of Biotechnology, Himachal Pradesh University, Summer Hill, Shimla, Himachal Pradesh, 171005, India; Verma, R., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, 173229, India; Kumar, D., School of Bioengineering & Food Technology, Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, 173229, India	Foods	2020	23048158
2492	Recycling copper slag in steel fibre concrete for sustainable construction	Siddique R., Singh M., Jain M.	Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Jain, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Cleaner Production	2020	9596526
2493	A Decoupled Low-Frequency Ripple Cancellation Method for High-Power LED Driver circuits	Barwar M.K., Sahu L.K., Bhatnagar P., Gupta K.K., Chander A.H.	Barwar, M.K., National Institute of Technology, Department of Electrical Engineering, Raipur, India; Sahu, L.K., National Institute of Technology, Department of Electrical Engineering, Raipur, India; Bhatnagar, P., Ies College of Technology, Department of Electrical Engineering, Bhopal, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Chander, A.H., Gayatri Vidya Parishad College of Engineering for Women, Department of Electrical and Electronics Engineering, Visakhapatnam, India	IECON Proceedings (Industrial Electronics Conference)	2020	
2494	Machine learning perspective in Cancer Research	Sharma A., Rani R.	Sharma, A., IT Department, Jaypee University of Information Technology, Solan, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning	2020	
2495	Online social networks misuse, cyber crimes, and counter mechanisms	Rao S., Verma A.K., Bhatia T.	Rao, S., Thapar Institute of Engineering and Technology, India; Verma, A.K., Thapar Institute of Engineering and Technology, India; Bhatia, T., Thapar Institute of Engineering and Technology, India	Analyzing Global Social Media Consumption	2020	
2496	Preliminary investigations of rotary ultrasonic neurosurgical bone grinding using Grey-Taguchi optimization methodology	Babbar A., Jain V., Gupta D.	Babbar, A., Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Thapar Institute of Engineering and Technology, Patiala, India	Grey Systems	2020	20439377
2497	Asking Graphs "how Did I Play?" Generating Graphs through Images Via Signals	Maram S.S., Jain A.	Maram, S.S., Thapar Institute of Engineering and Technology, Patiala, India; Jain, A., Thapar Institute of Engineering and Technology, Patiala, India	MMSports 2020 - Proceedings of the 3rd International Workshop on Multimedia Content Analysis in Sports	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2498	One-pot synthesis of pure phase molybdenum carbide (Mo ₂ C and MoC) nanoparticles for hydrogen evolution reaction	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	International Journal of Hydrogen Energy	2020	3603199
2499	MirGAN: Medical image reconstruction using generative adversarial networks	Dang N., Khurana M., Tiwari S.	Dang, N., Computer Science Engineering, Department (CSED), Tiet, Patiala, 147004, India; Khurana, M., Computer Science Engineering, Department (CSED), Tiet, Patiala, 147004, India; Tiwari, S., Computer Science Engineering, Department (CSED), Tiet, Patiala, 147004, India	Proceedings of the 2020 International Conference on Computing, Communication and Security, ICCCS 2020	2020	
2500	Instrument classification using image based transfer learning	Shukla U., Tiwari U., Chawla V., Tiwari S.	Shukla, U., Thapar Institute of Engineering and Technology, Csed Department; Tiwari, U., Thapar Institute of Engineering and Technology, Csed Department; Chawla, V., Thapar Institute of Engineering and Technology, Csed Department; Tiwari, S., Thapar Institute of Engineering and Technology, Csed Department	Proceedings of the 2020 International Conference on Computing, Communication and Security, ICCCS 2020	2020	
2501	Speeded-up Convolution Neural Network for classification tasks using multiscale 2-dimensional decomposition	Bhattacharya J., Ramponi G.	Bhattacharya, J., Thapar Institute of Engineering and Technology, India; Ramponi, G., University of Trieste, Italy	Neurocomputing	2020	9252312
2502	Phase Transition and Crystallization Kinetics of a Supramolecular System in a Microfluidic Platform	Cohen-Gerassi D., Arnon Z.A., Guterma T., Levin A., Ghosh M., Aviv M., Levy D., Knowles T.P.J., Shacham-Diamand Y., Adler-Abramovich L.	Cohen-Gerassi, D., Department of Oral Biology, Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Materials Science and Engineering, Iby and Aladar Fleischman Faculty of Engineering, Tel Aviv University, Tel Aviv, 6997801, Israel; Arnon, Z.A., Department of Oral Biology, Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Molecular Microbiology and Biotechnology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, 6997801, Israel; Guterma, T., Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Molecular Microbiology and Biotechnology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, 6997801, Israel; Levin, A., Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, United Kingdom; Ghosh, M., Department of Oral Biology, Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel; Aviv, M., Department of Oral Biology, Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, School of Mechanical Engineering, Afeka Tel Aviv Academic College of Engineering, Tel Aviv, 6910717, Israel; Levy, D., Wolfson Applied Materials Research Center, Tel Aviv University, Tel Aviv, 6997801, Israel; Knowles, T.P.J., Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, United Kingdom, Cavendish Laboratory, University of Cambridge, J J Thomson Avenue, Cambridge, CB3 0HE, United Kingdom; Shacham-Diamand, Y., Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Materials Science and Engineering, Iby and Aladar Fleischman Faculty of Engineering, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, 69978, Israel, Endowed Chair Professor, TAU/TiET Food Security Center of Excellence (T2FSCoE), Director, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Adler-Abramovich, L., Department of Oral Biology, Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel	Chemistry of Materials	2020	8974756
2503	Algorithm to Prevent Breaker-Failure Protection Mal-operation Due to Subsidence Current	Jena S., Bhalja B.R., Malik O.P.	Jena, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Bhalja, B.R., Indian Institute of Technology Roorkee, Department of Electrical Engineering, Uttarakhand, India; Malik, O.P., University of Calgary, Department of Electrical and Computer Engineering, Canada	2020 IEEE Industry Applications Society Annual Meeting, IAS 2020	2020	
2504	Fly ash and ground granulated blast furnace slag-based alkali-activated concrete: Mechanical, transport and microstructural properties	Mehta A., Siddique R., Ozbakkaloglu T., Uddin Ahmed Shaikh F., Belarbi R.	Mehta, A., Arkade Consultants, Hisar, 125005, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Ozbakkaloglu, T., Civil Engineering Department, Ingram School of Engineering, Texas State University, United States; Uddin Ahmed Shaikh, F., Department of Civil Engineering, Curtin University, Perth, WA 6845, Australia; Belarbi, R., LaSIE, LA Rochelle University, CNRS, France	Construction and Building Materials	2020	9500618
2505	Development of ultrasensitive and As ⁽ⁱⁱⁱ⁾ -selective upconverting (NaYF ₄ :Yb ³⁺ ,Er ³⁺) platform	Duhan S., Sahoo K., Singh S.K., Kumar M.	Duhan, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sahoo, K., Department of Chemical Engineering and Technology, IIT (BHU), Varanasi, 221005, India; Singh, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, M., Department of Chemical Engineering and Technology, IIT (BHU), Varanasi, 221005, India	Analyst	2020	32654

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2506	Gravity battery: Storing electrical energy in the form of gravitational potential energy	Sagar S., Sondhi S., Sagar J.	Sagar, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Sondhi, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Sagar, J., National Institute of Technology, Department of Electronics and Communication Engineering, Hamirpur, India	2020 IEEE International Conference on Computing, Power and Communication Technologies, GUCON 2020	2020	
2507	Recent developments in estimation of solar radiation	Choudhary A., Pandey D., Bhardwaj S.	Choudhary, A., ASET, Amity University, Department of ECE, Lucknow, Uttar Pradesh, 226028, India; Pandey, D., ASET, Amity University, Department of ECE, Lucknow, Uttar Pradesh, 226028, India; Bhardwaj, S., TIET, Thapar University, Department of EIE, Patiala, Punjab, 147001, India	2020 IEEE International Conference on Computing, Power and Communication Technologies, GUCON 2020	2020	
2508	Optimization of al ₂ o ₃ and tio ₂ blends to be used as erosion resistant coating for mild steel	Singh V., Kumar S., Ratha D.	Singh, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand 831014, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Tribology	2020	7424787
2509	Dry sliding wear performance of nio ₂ composites developed through an in situ microwave casting process	Singh S., Gupta D., Kaushal S.	Singh, S., Department of Mechanical Engineering, The NorthCap University, Sector-23A, Huda, Gurugram, Haryana 122017, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaushal, S., Department of Mechanical Engineering, Gulzar Group of Institutes, Ludhiana, Punjab 141401, India	Journal of Tribology	2020	7424787
2510	Parameter estimation and optimization of multi-objective capacitated stochastic transportation problem for gamma distribution	Gupta S., Garg H., Chaudhary S.	Gupta, S., Jaipuria Institute of Management, Jaipur, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Chaudhary, S., Department of Community Medicine, Government Medical College, UP, Kannauj, India	Complex and Intelligent Systems	2020	21994536
2511	STAR: SLA-aware Autonomic Management of Cloud Resources	Singh S., Chana I., Buyya R.	Singh, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Chana, I., Clouds Lab, Department of Computing and Information Systems, University of Melbourne, Parkville, VIC, Australia; Buyya, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	IEEE Transactions on Cloud Computing	2020	21687161
2512	DSCD: Delay Sensitive Cross-Domain Virtual Network Embedding Algorithm	Zhang P., Pang X., Bi Y., Yao H., Pan H., Kumar N.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Pang, X., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Bi, Y., National Engineering Laboratory for Risk Perception and Prevention, Beijing, China; Yao, H., State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, China; Pan, H., State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan and King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Transactions on Network Science and Engineering	2020	23274697
2513	Joint User Pairing, Subchannel Assignment and Power Allocation in Cooperative Non-Orthogonal Multiple Access Networks	Lamba A.K., Kumar R., Sharma S.	Lamba, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, India; Kumar, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, India; Sharma, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, India	IEEE Transactions on Vehicular Technology	2020	189545
2514	An IoT and Edge Computing Based Framework for Charge Scheduling and EV Selection in V2G Systems	Chamola V., Sancheti A., Chakravarty S., Kumar N., Guizani M.	Chamola, V., Department of Electrical and Electronics Engineering, BITS Pilani, Pilani, India, APP Centre for AI Research, BITS Pilani, K.K. Birla Goa Campus, India; Sancheti, A., Department of Electrical and Electronics Engineering, BITS Pilani, Pilani, India; Chakravarty, S., Department of Electrical and Electronics Engineering, BITS Pilani, Pilani, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 100600, Taiwan, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Guizani, M., Department of Computer Science and Engineering, Qatar University, Doha, Qatar	IEEE Transactions on Vehicular Technology	2020	189545
2515	Deep Recurrent Architecture based Scene Description Generator for Visually Impaired	Chharia A., Upadhyay R.	Chharia, A., Thapar Institute of Engineering Technology, Department of Mechanical Engineering, Patiala, Punjab, India; Upadhyay, R., Thapar Institute of Engineering Technology, Department of Mechanical Engineering, Patiala, Punjab, India	International Congress on Ultra Modern Telecommunications and Control Systems and Workshops	2020	21570221
2516	Gender Differentiated Convolutional Neural Networks for Speech Emotion Recognition	Mishra P., Sharma R.	Mishra, P., Thapar Institute of Engineering and Technology, Department of Electronics and Communications Engineering, Patiala, India; Sharma, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	International Congress on Ultra Modern Telecommunications and Control Systems and Workshops	2020	21570221
2517	Effect of shod walking on plantar pressure with varying insole	Sandhu K., Srivastava V., Pal M.	Sandhu, K., Department of Product and Industrial Design, Lovely Professional University, Phagwara, 144 411, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Pal, M., DRDO-Defence Institute of Physiology and Allied Sciences, Delhi, 110 054, India	Defence Life Science Journal	2020	24560537

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2518	In silico docking and comparative ADMET profile of different glycogen synthase kinase 3 beta inhibitors as the potential leads for the development of anti-Alzheimer drug therapy	Prajapat M., Sarma P., Shekhar N., Kaur H., Singh S., Kumar S., Kaur H., Mahendiratta S., Sharma A.R., Kaur S., Mahalmani V.M., Medhi B.	Prajapat, M., Department of Pharmacology, Pgimer, Chandigarh, India; Sarma, P., Department of Pharmacology, Pgimer, Chandigarh, India; Shekhar, N., Department of Pharmacology, Pgimer, Chandigarh, India; Kaur, H., Department of Pharmacology, Pgimer, Chandigarh, India; Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Department of Pharmacology, Pgimer, Chandigarh, India; Kaur, H., Department of Pharmacology, Pgimer, Chandigarh, India; Mahendiratta, S., Department of Pharmacology, Pgimer, Chandigarh, India; Sharma, A.R., Department of Neurology, Pgimer, Chandigarh, India; Kaur, S., Department of Pharmacology, Pgimer, Chandigarh, India; Mahalmani, V.M., Department of Pharmacology, Pgimer, Chandigarh, India; Medhi, B., Department of Pharmacology, Pgimer, Chandigarh, India	Journal of Advanced Pharmaceutical Technology and Research	2020	22314040
2519	Development of cost effective regeneration protocol for aerides multiflora roxb. And rhynchosytilis retusa (L.) blume	Lal A., Pant M., Palni L.M.S., Kumar A., Kholiya D.	Lal, A., Department of Biotechnology, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Pant, M., Department of Life Sciences, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Palni, L.M.S., Department of Biotechnology, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Kumar, A., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India; Kholiya, D., Department of Environmental Science, Graphic Era Hill University, Dehradun, Uttarakhand, India	International Journal of Current Research and Review	2020	22312196
2520	Symmetries, Explicit Solutions and Conservation Laws for Some Time Space Fractional Nonlinear Systems	Singla K., Rana M.	Singla, K., Department of Mathematics, Chandigarh University, Gharuan-Mohali, Punjab, India, School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Rana, M., Department of Mathematics, Chandigarh University, Gharuan-Mohali, Punjab, India, School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Reports on Mathematical Physics	2020	344877
2521	Call for Special Issue Papers: Internet of Things Data Visualization for Business Intelligence	Kumar N.	Kumar, N., Thapar Institute of Engineering, Thapar University, India	Big data	2020	2167647X
2522	Label-free detection of creatinine using nitrogen-passivated fluorescent carbon dots	Kainth S., Maity B., Basu S.	Kainth, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	RSC Advances	2020	20462069
2523	Immunological perspective for ebola virus infection and various treatment measures taken to fight the disease	Jain S., Khaiboullina S.F., Baranwal M.	Jain, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Khaiboullina, S.F., Department of Microbiology and Immunology, University of Nevada, Reno, NV 89557, United States, Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Pathogens	2020	20760817
2524	Radiolytic degradation of ornidazole in aqueous solutions by electron beam irradiation: Implications to parameters, kinetics, toxicity and cost evaluation	Changotra R., Guin J.P., Khader S.A., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guin, J.P., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Khader, S.A., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Environmental Chemical Engineering	2020	22133437
2525	Statistical correlation technique for transient signal analysis during impulse testing of transformers	Garg A., Sharma T., Jain A., Velandy J.	Garg, A., Thapar Institute of Engineering and Technology, Patiala, PB 147003, India; Sharma, T., Thapar Institute of Engineering and Technology, Patiala, PB 147003, India; Jain, A., Thapar Institute of Engineering and Technology, Patiala, PB 147003, India; Velandy, J., CG Power and Industrial Solutions Ltd., Kanjur Marg (E), Mumbai, MH 400042, India	IET Science, Measurement and Technology	2020	17518822
2526	Study of analog performance of common source amplifier using rectangular core-shell based double gate junctionless transistor	Narula V., Agarwal M.	Narula, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Semiconductor Science and Technology	2020	2681242
2527	Structural and optical characterization of Er-doped CaMoO4 down-converting phosphors	Kaur P., Kumar R., Davessar S., Khanna A.	Kaur, P., Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Kumar, R., Department of Physics, Lovely Professional University, Phagwara, Punjab, 144411, India; Davessar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Khanna, A., Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials	2020	20525192

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2528	Site Occupation and Magnetic Studies in La-Co-Substituted Barium Hexaferrite	Mahadevan S., Sathe V., Raghavendra Reddy V., Sharma P.	Mahadevan, S., School of Physics and Materials Science, Thapar Institute of Engineering Technology, Patiala, India; Sathe, V., UGC-DAE Consortium for Scientific Research, Indore, India; Raghavendra Reddy, V., UGC-DAE Consortium for Scientific Research, Indore, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering Technology, Patiala, India	IEEE Transactions on Magnetics	2020	189464
2529	Graphics forgery recognition using deep convolutional neural network in video for trustworthiness	Jindal N., Kaur H.	Jindal, N., Thapar University, Patiala, India; Kaur, H., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Software Innovation	2020	21667160
2530	Scalable recommendation using large scale graph partitioning with pregel and giraph	Bathla G., Aggarwal H., Rani R.	Bathla, G., Punjabi Univeristy, India; Aggarwal, H., Punjabi University, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, India	International Journal of Cognitive Informatics and Natural Intelligence	2020	15573958
2531	Investigations on morphology and material removal rate of various MMCs using CO2 laser technique	Sharma V., Kumar V., Bist A.	Sharma, V., Department of Mechanical Engineering, The NorthCap University, Gurugram, Haryana, India; Kumar, V., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India; Bist, A., Department of Mechanical Engineering, Graphic Era University, Dehradun, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	16785878
2532	QPSO-CD: quantum-behaved particle swarm optimization algorithm with Cauchy distribution	Bhatia A.S., Saggi M.K., Zheng S.	Bhatia, A.S., Chitkara University Institute of Engineering and Technology, Chitkara University, Patiala, Punjab, India; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Zheng, S., Peng Cheng Laboratory, Shenzhen, China	Quantum Information Processing	2020	15700755
2533	New ranking method for normal intuitionistic sets under crisp, interval environments and its applications to multiple attribute decision making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Complex and Intelligent Systems	2020	21994536
2534	Recent Advances in the Synthesis of Tamoxifen and Analogues in Medicinal Chemistry	Tandon N., Luxami V., Tandon R., Paul K.	Tandon, N., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Tandon, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	Asian Journal of Organic Chemistry	2020	21935807
2535	A deep learning approach to detect Covid-19 coronavirus with X-Ray images	Jain G., Mittal D., Thakur D., Mittal M.K.	Jain, G., Department of Electrical Engineering, Medical Engineering and Computer Science (EMI), Hochschule Offenburg, Offenburg, Germany; Mittal, D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Thakur, D., Department of Electrical Engineering, Medical Engineering and Computer Science (EMI), Hochschule Offenburg, Offenburg, Germany; Mittal, M.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Biocybernetics and Biomedical Engineering	2020	2085216
2536	Multiplicative Consistency Adjustment Model and Data Envelopment Analysis-Driven Decision-Making Process with Probabilistic Hesitant Fuzzy Preference Relations	Jin F., Garg H., Pei L., Liu J., Chen H.	Jin, F., School of Business, Anhui University, Hefei, Anhui 230601, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Pei, L., School of Mathematics and Statistics, Hefei Normal University, Hefei, Anhui 230601, China; Liu, J., School of Business, Anhui University, Hefei, Anhui 230601, China; Chen, H., School of Mathematical Sciences, Anhui University, Hefei, Anhui 230601, China	International Journal of Fuzzy Systems	2020	15622479
2537	Effect of minor phase (CuO) on sinterability, grain size, and dielectric properties of CaCu3Ti4O12 ceramics	Kaur T., Punj S., Kumar R., Singh K.	Kaur, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, R., IIMT Group of Colleges, Noida, Uttar Pradesh, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Physics A: Materials Science and Processing	2020	9478396
2538	Biochar augmentation improves ectomycorrhizal colonisation, plant growth and soil fertility	Verma B., Reddy M.S.	Verma, B., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Soil Research	2020	1838675X
2539	Influence of Chemical Composition and Thermo-Mechanical Processing on the Formation of Delta Ferrite in 10.7CrMoVNbN Steel	Kasana S.S., Pandey O.P.	Kasana, S.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Star Wire (India) Ltd. Ballabgarh, Haryana, 121004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Transactions of the Indian Institute of Metals	2020	9722815

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2540	A stable class of modified Newton-like methods for multiple roots and their dynamics	Kansal M., Cordero A., Torregrosa J.R., Bhalla S.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Cordero, A., Instituto de Matemática Multidisciplinar, Universitat Politècnica de València, Valencia, 46022, Spain; Torregrosa, J.R., Instituto de Matemática Multidisciplinar, Universitat Politècnica de València, Valencia, 46022, Spain; Bhalla, S., Department of Mathematics, Chandigarh University, Gharuan, Mohali, Punjab, 140413, India	International Journal of Nonlinear Sciences and Numerical Simulation	2020	15651339
2541	The role of gut microbiome in chemical-induced metabolic and toxicological murine disease models	Dey P.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Life Sciences	2020	243205
2542	Applications of blockchain in ensuring the security and privacy of electronic health record systems: A survey	Shi S., He D., Li L., Kumar N., Khan M.K., Choo K.-K.R.	Shi, S., School of Cyber Science and Engineering, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, China; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, China; Li, L., School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Department of Computer Science and Information Engineering, Asia University, Taiwan, India, Department of Computer Science and Information Engineering, Asia University, Taiwan; Khan, M.K., Center of Excellence in Information Assurance, College of Computer & Information Sciences, King Saud University, Saudi Arabia; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, United States	Computers and Security	2020	1674048
2543	Kinematic Viscosity Prediction of Nanolubricants Employed in Heavy Earth Moving Machinery Using Machine Learning Techniques	Sharma G., Kotia A., Ghosh S.K., Rana P.S., Bawa S., Ali M.K.A.	Sharma, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kotia, A., School of Mechanical Engineering, Lovely Professional University, Phagwara, Punjab, India; Ghosh, S.K., Department of Mechanical Engineering, Indian Institute of Technology, Dhanbad, Dhanbad, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Ali, M.K.A., Automotive and Tractors Engineering Department, Faculty of Engineering, Minia University, El-Minia, 61519, Egypt	International Journal of Precision Engineering and Manufacturing	2020	22347593
2544	ElectroBlocks: A blockchain-based energy trading scheme for smart grid systems	Tanwar S., Kaneriya S., Kumar N., Zeadally S.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kaneriya, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, Saudi Arabia; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY, United States	International Journal of Communication Systems	2020	10745351
2545	Potential of generative adversarial net algorithms in image and video processing applications– a survey	Sharma A., Jindal N., Rana P.S.	Sharma, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2020	13807501
2546	Deep feature extraction and classification of breast ultrasound images	Kriti, Virmani J., Agarwal R.	Kriti, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Virmani, J., CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, 160030, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Multimedia Tools and Applications	2020	13807501
2547	Cuminaldehyde induces oxidative stress-mediated physical damage and death of Haemonchus contortus	Goel V., Singla L.D., Choudhury D.	Goel, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singla, L.D., Department of Veterinary Parasitology, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab 141001, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Biomedicine and Pharmacotherapy	2020	7533322
2548	Epigallocatechin gallate but not catechin prevents nonalcoholic steatohepatitis in mice similar to green tea extract while differentially affecting the gut microbiota	Dey P., Olmstead B.D., Sasaki G.Y., Vodovotz Y., Yu Z., Bruno R.S.	Dey, P., Human Nutrition Program, The Ohio State University, Columbus, OH, United States, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Olmstead, B.D., Human Nutrition Program, The Ohio State University, Columbus, OH, United States; Sasaki, G.Y., Human Nutrition Program, The Ohio State University, Columbus, OH, United States; Vodovotz, Y., Department of Food Science and Technology, The Ohio State University, Columbus, OH, United States; Yu, Z., Department of Animal Sciences, The Ohio State University, Columbus, OH, United States; Bruno, R.S., Human Nutrition Program, The Ohio State University, Columbus, OH, United States	Journal of Nutritional Biochemistry	2020	9552863
2549	BloomStore: Dynamic Bloom-Filter-based Secure Rule-Space Management Scheme in SDN	Singh A., Batra S., Aujja G.S., Kumar N., Yang L.T.	Singh, A., Department of Computer Science and Engineering, National Institute of Technology, Jalandhar, 144011, India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aujja, G.S., School of Computing, Newcastle University, Newcastle Upon Tyne, NE4 7RU, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Yang, L.T., Department of Computer Science, St. Francis Xavier University, Antigonish, NS B2G 2W5, Canada	IEEE Transactions on Industrial Informatics	2020	15513203

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2550	The role of potential energy surface in quantum mechanical tunneling: A computational perspective	Jaglan R., Mandal D.	Jaglan, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Computational and Theoretical Chemistry	2020	2210271X
2551	The effect of radiation curing on mechanical joints prepared from carbon nanotubes added carbon/epoxy laminates	Kumar M., Saini J.S., Bhunia H., Chowdhury S.R.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chowdhury, S.R., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra, India	Polymer Composites	2020	2728397
2552	Hetero carbon structures derived from waste plastics as an efficient electrocatalyst for water splitting and high-performance capacitors	Mir R.A., Singla S., Pandey O.P.	Mir, R.A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singla, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Physica E: Low-Dimensional Systems and Nanostructures	2020	13869477
2553	Exponential operational laws and new aggregation operators for intuitionistic multiplicative set in multiple-attribute group decision making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Information Sciences	2020	200255
2554	An efficient class of iterative methods for computing generalized outer inverse $MT,S(2)$	Kaur M., Kansal M.	Kaur, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Applied Mathematics and Computing	2020	15985865
2555	Nonlinear Acoustic Echo Canceller to Combat Sigmoid-Type Nonlinearities Under Noisy Environment	Kohli A.K., Sharma J.	Kohli, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Wireless Personal Communications	2020	9296212
2556	TBCS: A Trust Based Clustering Scheme for Secure Communication in Flying Ad-Hoc Networks	Singh K., Verma A.K.	Singh, K., CSED, Thapar University, Patiala, India; Verma, A.K., CSED, Thapar University, Patiala, India	Wireless Personal Communications	2020	9296212
2557	Compact Meandered Folded-Dipole RFID Tag Antenna for Dual Band Operation in UHF Range	Bansal A., Sharma S., Khanna R.	Bansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Wireless Personal Communications	2020	9296212
2558	Sulphuric acid-functionalized siliceous zirconia as an efficient and reusable catalyst for the synthesis of glycerol triacetate	Abida K., Ali A.	Abida, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemical Papers	2020	3666352
2559	Biodegradation of Butachlor by Bacillus altitudinis and Identification of Metabolites	Kaur R., Goyal D.	Kaur, R., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147001, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147001, India	Current Microbiology	2020	3438651
2560	A novel design of energy efficient bidirectional passive optical green networks using reduced buffer with small packet size technique	Goyal R., Kaler R.S., Rani M.	Goyal, R., Department of ECE, I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Kaler, R.S., Electronics & Communication Engineering Department, Thapar University, Patiala, Punjab, India; Rani, M., Post Graduate Department of Mathematics, Kanya Maha Vidyalaya, Jalandhar, Punjab, India	Microwave and Optical Technology Letters	2020	8952477
2561	An Improved Technique for Face Age Progression and Enhanced Super-Resolution with Generative Adversarial Networks	Sharma N., Sharma R., Jindal N.	Sharma, N., Department of Electronics and Communication Engineering, Punjabi University, Patiala, Punjab 147001, India; Sharma, R., Department of Electronics and Communication Engineering, Punjabi University, Patiala, Punjab 147001, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Wireless Personal Communications	2020	9296212
2562	Deep learning enabled multi-wavelength spatial coherence microscope for the classification of malaria-infected stages with limited labelled data size	Singla N., Srivastava V.	Singla, N., School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab, India; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Optics and Laser Technology	2020	303992

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2563	A survey on secure communication techniques for 5G wireless heterogeneous networks	Kakkar A.	Kakkar, A., T.I.E.T, Patiala, Punjab, India	Information Fusion	2020	15662535
2564	Mathematical and simulation analysis of natural convection heat transfer for DC-DC converter	Kumar V., Garg H., Singh C., Kandoria S., Karar V.	Kumar, V., Academy of Scientific and Innovative Research, Chandigarh, India, Central Scientific Instruments Organisation (CSIO, Chandigarh, India; Garg, H., Central Scientific Instruments Organisation (CSIO, Chandigarh, India; Singh, C., Thapar Institute of Engineering and Technology, Patiala, India; Kandoria, S., National Institute of Technology, Hamirpur, India; Karar, V., Central Scientific Instruments Organisation (CSIO, Chandigarh, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2020	9544062
2565	Ranking-based triplet loss function with intra-class mean and variance for fine-grained classification tasks	Bhattacharya J., Sharma R.K.	Bhattacharya, J., Thapar Institute of Engineering and Technology, CSED, Patiala, 147004, India; Sharma, R.K., Thapar Institute of Engineering and Technology, CSED, Patiala, 147004, India	Soft Computing	2020	14327643
2566	JMD method for transforming an unbalanced fully intuitionistic fuzzy transportation problem into a balanced fully intuitionistic fuzzy transportation problem	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Soft Computing	2020	14327643
2567	Secure Lending: Blockchain and Prospect Theory-Based Decentralized Credit Scoring Model	Hassija V., Bansal G., Chamola V., Kumar N., Guizani M.	Hassija, V., Department of Electrical and Electronics Engineering, BITS, Pilani, 333031, India; Bansal, G., Department of Electrical and Electronics Engineering, BITS, Pilani, 333031, India; Chamola, V., Department of Electrical and Electronics Engineering, BITS, Pilani, 333031, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, Asia University, Taichung, 41354, Taiwan; Guizani, M., Department of Computer Science and Engineering, Qatar University, Doha, 2713, Qatar	IEEE Transactions on Network Science and Engineering	2020	23274697
2568	A MATLAB Suite for Second Generation Wavelets on an Interval and the Corresponding Adaptive Grid	Goyal K., Sharma D.	Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Acta Applicandae Mathematicae	2020	1678019
2569	Site Response Study and Amplification Factor for Shallow Bedrock Sites	Parihar A., Anbazhagan P.	Parihar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Anbazhagan, P., Department of Civil Engineering, Indian Institute of Science, Bangalore, 5600012, India	Indian Geotechnical Journal	2020	9719555
2570	On the probability that an automorphism of a group fixes an element of the group	Goyal A., Kalra H., Gumber D.	Goyal, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kalra, H., Department of Mathematics, Guru Jambheshwar University of Science and Technology, Hisar, 125001, India; Gumber, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Journal of Algebra and its Applications	2020	2194988
2571	An efficient and secure certificateless aggregate signature from bilinear maps	Kumar P., Sharma V., Sharma G., Bhatia T.	Kumar, P., School of Computing Science and Engineering, Galgotias University, Delhi, India; Sharma, V., Amity School of Engineering, Amity University, Noida, India; Sharma, G., Département d'Informatique, Université Libre de Bruxelles, Bruxelles, Belgium; Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India	Research Anthology on Blockchain Technology in Business, Healthcare, Education, and Government	2020	
2572	Efficient diminished-1 modulo $(2n + 1)$ adder using parallel prefix adder	Singhal S.K., Mohanty B.K., Patel S.K., Saxena G.	Singhal, S.K., Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, AB-Road, Raghogarh, Guna, Madhya Pradesh, 473226, India; Mohanty, B.K., Department of Electronics and Telecommunication Engineering, SVKM's NMIMS, Shirpur Campus, Mukesh Patel School of Technology Management and Engineering, Shirpur, Maharashtra, 425404, India; Patel, S.K., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Saxena, G., Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, AB-Road, Raghogarh, Guna, Madhya Pradesh, 473226, India	Journal of Circuits, Systems and Computers	2020	2181266
2573	Impact of intercalation doping on the conductivity of multi-layer graphene nanoribbon (MLG NR) in on-chip interconnects	Sharma H., Sandha K.S.	Sharma, H., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Sandha, K.S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India	Journal of Circuits, Systems and Computers	2020	2181266
2574	Comparative Analysis of PI Control with Anti-Windup Schemes for Front-end Rectifier	Divakar, Dwivedi P., Bose S., Pandey S.	Divakar, National Institute of Technology, Uttarakhand, India; Dwivedi, P., National Institute of Technology, Uttarakhand, India; Bose, S., National Institute of Technology, Uttarakhand, India; Pandey, S., Thapar Institute of Engineering and Technology, Punjab, India	Proceedings of 2020 IEEE 1st International Conference on Smart Technologies for Power, Energy and Control, STPEC 2020	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2575	BioilAV: Blockchain-envisioned framework for digital identification to secure access in next-generation UAVs	Patel S.B., Kheruwala H.A., Alazab M., Patel N., Damani R., Bhattacharya P., Tan War S., Kumar N.	Patel, S.B., Nirma University Ahmedabad, Gujarat, India; Kheruwala, H.A., Nirma University Ahmedabad, Gujarat, India; Alazab, M., Charles Darwin University, NT, Casuarina, Australia; Patel, N., Nirma University Ahmedabad, Gujarat, India; Damani, R., Nirma University Ahmedabad, Gujarat, India; Bhattacharya, P., Nirma University Ahmedabad, Gujarat, India; Tan War, S., Nirma University Ahmedabad, Gujarat, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	DroneCom 2020 - Proceedings of the 2nd ACM MobiCom Workshop on Drone Assisted Wireless Communications for 5G and Beyond	2020	
2576	Energy management scheme for wireless powered D2D users with NOMA underlaying full duplex UAV	Budhiraja I., Kumar N., Tyagi S., Tanwar S., Alazab M., Srivastava G.	Budhiraja, I., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Tyagi, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Tanwar, S., Nirma University, Ahmedabad, Gujarat, India; Alazab, M., Charles Darwin University, Casuarina, Australia; Srivastava, G., Brandon University, Brandon, MB, Canada	DroneCom 2020 - Proceedings of the 2nd ACM MobiCom Workshop on Drone Assisted Wireless Communications for 5G and Beyond	2020	
2577	Impact of Squashing Function's Slope on ANN based Channel Estimation in SFBC-OFDM System	Kapoor D.S., Kohli A.K.	Kapoor, D.S., Thapar Institute of Engineering Technology, Electronics and Communication Engineering Department, Patiala, Punjab, India; Kohli, A.K., Thapar Institute of Engineering Technology, Electronics and Communication Engineering Department, Patiala, Punjab, India	Proceedings - 2020 12th International Conference on Computational Intelligence and Communication Networks, CICN 2020	2020	
2578	Linear frequency modulated thermal wave imaging for estimation of osteoporosis: An analytical approach	Sharma A., Mulaveesala R., Dua G., Kumar N.	Sharma, A., Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Mulaveesala, R., Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Dua, G., Thapar Institute of Engineering and Technology, P.O. Box 32, Bhadson Road, Patiala, Punjab, 147004, India; Kumar, N., Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India	Electronics Letters	2020	135194
2579	Microwave non-destructive testing of active frequency selective surface embedded tunable radar absorber	Sharma A., Panwar R., Khanna R.	Sharma, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Panwar, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing Jabalpur, Jabalpur, Madhya Pradesh, 482005, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Electronics Letters	2020	135194
2580	Guest editorial: Non-Destructive testing	Mulaveesala R., Arora V., Dua G., Vavilov V.P., Guo X., Bison P., Avdelidis N.P.	Mulaveesala, R., Department of Electrical Engineering, Indian Institute of Technology, Ropar, India; Arora, V., School of Electronics, Indian Institute of Information Technology Una, India; Dua, G., Department of Electronics and Communications Engineering, Thapar Institute of Engineering and Technology, India; Vavilov, V.P., Testing Laboratory Head, National Research Tomsk Polytechnic University, Russian Federation; Guo, X., School of Mechanical Engineering and Automation, Beihang University (Beijing University of Aeronautics and Astronautics), Beijing, China; Bison, P., Institute for Construction Technology, National Research Council of Italy, Italy; Avdelidis, N.P., InnoTecUK, United Kingdom	Electronics Letters	2020	135194
2581	Impact of mutations on the conformational transition from α -helix to β -sheet structures in arctic-type A β 40: Insights from molecular dynamics simulations	Saini R.K., Shuaib S., Goyal D., Goyal B.	Saini, R.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	ACS Omega	2020	24701343
2582	Numerical simulation of highly efficient lead-free all-perovskite tandem solar cell	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Solar Energy	2020	0038092X
2583	Blockchain-based identity management systems: A review	Liu Y., He D., Obaidat M.S., Kumar N., Khan M.K., Raymond Choo K.-K.	Liu, Y., School of Cyber Science and Engineering, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, China; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, China; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, United Arab Emirates, KASIT, University of Jordan, Amman, Jordan, University of Science and Technology Beijing, Beijing, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan; Khan, M.K., Center of Excellence in Information Assurance, King Saud University, Saudi Arabia; Raymond Choo, K.-K., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, United States	Journal of Network and Computer Applications	2020	10848045

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2584	Development of hierarchical magnesium oxide anchored cerium oxide nanocomposites with improved magnetic properties and photocatalytic performance	Rani N., Chahal S., Mahadevan S.K., Kumar P., Shukla R., Singh S.K.	Rani, N., Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana, 131039, India; Chahal, S., Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana, 131039, India; Mahadevan, S.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, P., Department of Physics, J C Bose University of Science and Technology, YMCA, Haryana, Faridabad, 121006, India; Shukla, R., Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana, 131039, India; Singh, S.K., Department of Physics, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana, 131039, India	Nanotechnology	2020	9574484
2585	Optimization of modulation-assisted drilling of Ti-6Al-4V aerospace alloy via response surface method	Singh M., Dhiman S., Singh H., Berndt C.C.	Singh, M., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, India, Department of Mechanical Engineering and Product Design Engineering, Swinburne University of Technology, Surface Engineering for Advanced Materials, Hawthorn, VIC, Australia; Dhiman, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, India; Berndt, C.C., Department of Mechanical Engineering and Product Design Engineering, Swinburne University of Technology, Surface Engineering for Advanced Materials, Hawthorn, VIC, Australia	Materials and Manufacturing Processes	2020	10426914
2586	Assessment of systemic greenness: a case study of tyre manufacturing unit	Narayanamurthy G., Sengupta T., Pati R.K., Gupta V., Gurumurthy A., Venkatesh M.	Narayanamurthy, G., University of Liverpool Management School, Liverpool, United Kingdom; Sengupta, T., Operations Management and Quantitative Techniques, Indian Institute of Management Indore, Indore, India; Pati, R.K., Quantitative Methods and Operations Management (QM & OM) Area, Indian Institute of Management Kozhikode (IIMK), Kozhikode, India; Gupta, V., L. M. Thapar School of Management (LMTSOM), Thapar University, Patiala, India; Gurumurthy, A., Quantitative Methods and Operations Management (QM & OM) Area, Indian Institute of Management Kozhikode (IIMK), Kozhikode, India; Venkatesh, M., Montpellier Business School, Montpellier Cedex 4, France	Production Planning and Control	2020	9537287
2587	Facile process to utilize carbonaceous waste as a carbon source for the synthesis of low cost electrocatalyst for hydrogen production	Mir R.A., Kaur G., Pandey O.P.	Mir, R.A., Functional Materials Lab, SPMS, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, G., Functional Materials Lab, SPMS, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, O.P., Functional Materials Lab, SPMS, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Hydrogen Energy	2020	3603199
2588	Improved diver communication system by combining optical and electromagnetic trackers	Kataria A., Ghosh S., Karar V., Gupta T., Srinivasan K., Hu Y.-C.	Kataria, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ghosh, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Karar, V., Chief Scientist, CSIR-CSIO, Chandigarh, 160030, India; Gupta, T., Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; Srinivasan, K., School of Information Technology and Engineering, Vellore Institute of Technology (VIT), Vellore, 632 014, India; Hu, Y.-C., Department of Mechanical and Electromechanical Engineering, National Ilan University, No. 1, Sec. 1, Shennong Rd., ILan, 26041, Taiwan	Sensors (Switzerland)	2020	14248220
2589	Model Order Reduction of Commensurate Fractional-Order Systems Using Big Bang–Big Crunch Algorithm	Jain S., Hote Y.V., Saxena S.	Jain, S., Department of Electrical Engineering, Indian Institute of Technology, Roorkee, Uttarakhand 247667, India; Hote, Y.V., Department of Electrical Engineering, Indian Institute of Technology, Roorkee, Uttarakhand 247667, India; Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India, School of Electrical Engineering, Tel Aviv University, Tel Aviv, 69978, Israel	IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)	2020	2564602
2590	Analytical Model of Gate to Channel Capacitance for Nanoscale MOSFETS	Chatterjee A.K., Prasad B.	Chatterjee, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University), Patiala, Punjab, India; Prasad, B., Department of Electronic Science, Kurukshetra University, Kurukshetra, Haryana, India	IETE Journal of Research	2020	3772063
2591	On the treatment of partitions as factorization and further analysis	Kumar A., Rana M.	Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of the Ramanujan Mathematical Society	2020	9701249
2592	Assessment of optimum slurry pipe design for minimum erosion	Kannojiya V., Kumar S.	Kannojiya, V., Mechanical and Industrial Engineering Department, Indian Institute of Technology, Roorkee, 247667, India; Kumar, S., Mechanical Engineering Department, Thapar University, Patiala, 147001, India	Scientia Iranica	2020	10263098
2593	Investigation of radio over fiber wavelength division multiplexed passive optical network using subcarrier multiplexing/amplitude shift keying technique	Kaur G., Kaler R.S., Rana A.	Kaur, G., Electronics and Communication Engineering Department, UIE, Chandigarh University, Mohali, Gharuan, Punjab, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India; Rana, A., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India	Optoelectronics and Advanced Materials, Rapid Communications	2020	18426573
2594	An integrated rule-based power management and dynamic feed-forward low voltage ride through scheme for a grid-connected hybrid energy system	Roy A.K., Biswal G.R., Basak P.	Roy, A.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Biswal, G.R., Department of Electrical and Electronics Engineering, Veer Surendra Sai University of Technology, Burla, Odisha, 768018, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Renewable and Sustainable Energy	2020	19417012

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2595	Numerical analysis of inverse trapezoidal fin heat-sink with ferrofluid based cooling mechanism	Kumar V., Garg H., Singh C., Karar V.	Kumar, V., AcSIR—Academy of Scientific and Innovative Research, Chandigarh, India, CSIR—Central Scientific Instruments Organization, Chandigarh, India; Garg, H., AcSIR—Academy of Scientific and Innovative Research, Chandigarh, India, CSIR—Central Scientific Instruments Organization, Chandigarh, India; Singh, C., Thapar Institute of Engineering & Technology, Patiala, India; Karar, V., AcSIR—Academy of Scientific and Innovative Research, Chandigarh, India, CSIR—Central Scientific Instruments Organization, Chandigarh, India	Journal of Green Engineering	2020	19044720
2596	Arbitrary Binary Relations, Contraction Mappings, and b-Metric Spaces	Chandok S.	Chandok, S., School of Mathematics, Thapar University, Patiala, India	Ukrainian Mathematical Journal	2020	415995
2597	Catalytic performance of cerium-modified ZSM-5 zeolite as a catalyst for the esterification of glycerol with acetic acid	Gautam P., Barman S., Ali A.	Gautam, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Barman, S.; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Chemical Reactor Engineering	2020	15426580
2598	Diagnosis of ball bearing faults using double decomposition technique	Dovedi T., Upadhyay R.	Dovedi, T., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Upadhyay, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Trinity College Dublin, Ireland	International Journal of Acoustics and Vibrations	2020	10275851
2599	Hybrid Hermite polynomial chaos SBP-SAT technique for stochastic advection-diffusion equations	Kaur N., Goyal K.	Kaur, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Modern Physics C	2020	1291831
2600	Self-attention based bidirectional long short-term memory-convolutional neural network classifier for the prediction of ischemic and non-ischemic cardiomyopathy	Dubey K., Agarwal A., Lathe A.S., Kumar R., Srivastava V.	Dubey, K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Lathe, A.S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., University of St Andrews, St Andrews, United Kingdom; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Laser Physics Letters	2020	16122011
2601	Theoretical foundation of a scheme for the study of dielectrics by analyzing the distortion in fringing field	Kumar A., Ganguli S.	Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Review of Scientific Instruments	2020	346748
2602	Endolichenic fungal diversity associated with some lichens of the Western Ghats	Rajulu M.B.G., Thirunavukkarasu N., Kumar S.S., Kaur T., Reddy M.S., Suryanarayanan T.S.	Rajulu, M.B.G., Vivekananda Institute of Tropical Mycology (VINSTROM), Ramakrishna Mission Vidyapith, Chennai, India; Thirunavukkarasu, N., Pg and Research Department of Botany, Ramakrishna Mission Vivekananda College, Chennai, India; Kumar, S.S., Divecha Centre for Climate Change, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India; Kaur, T., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Suryanarayanan, T.S., Vivekananda Institute of Tropical Mycology (VINSTROM), Ramakrishna Mission Vidyapith, Chennai, India	Planta Medica	2020	320943
2603	MODELING ZIKA TRANSMISSION DYNAMICS: PREVENTION and CONTROL	Roy P., Upadhyay R.K., Caur J.	Roy, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Upadhyay, R.K., Department of Mathematics and Computing, Indian Institute of Technology (ISM) Dhanbad, Dhanbad, Jharkhand, 826004, India; Caur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Biological Systems	2020	2183390
2604	A Lightweight Privacy-Preserving Authentication Protocol for VANETS	Li X., Liu T., Obaidat M.S., Wu F., Vijayakumar P., Kumar N.	Li, X., Institute for Cyber Security, School of Computer Science and Engineering, University of Electronic Science and Technology of China, Chengdu, 611731, China; Liu, T., School of Computer Science and Engineering, Hunan University of Science and Technology, Xiangtan, 411201, China; Obaidat, M.S., College of Computing and Informatics, Sharjah University, Sharjah, United Arab Emirates; Wu, F., Department of Computer Science and Engineering, Xiamen Institute of Technology, Xiamen, 361021, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, Tamilnadu, 604001, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India	IEEE Systems Journal	2020	19328184
2605	Automated full-field polarization-sensitive optical coherence tomography diagnostic systems for breast cancer	Kansal S., Bhattacharya J., Srivastava V.	Kansal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhattacharya, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Applied Optics	2020	1559128X
2606	Deep Learning of Spatiotemporal Filtering for Fast Super-Resolution Ultrasound Imaging	Brown K.G., Ghosh D., Hoyt K.	Brown, K.G., Department of Bioengineering, University of Texas at Dallas, Richardson, TX 75080, United States; Ghosh, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hoyt, K., Department of Bioengineering, University of Texas at Dallas, Richardson, TX 75080, United States	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control	2020	8853010

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2607	Effect of pro-oxidant concentration on characteristics of packaging films of cobalt stearate filled polypropylene	Bhunia H., Sable S., Ahuja S.	Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sable, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Polymer Engineering	2020	3346447
2608	A modified rhombus shaped flexible wideband double negative (DNG) metamaterial for S, C, X, and Ku band applications	Negi D., Khanna R., Kaur J.	Negi, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Frequenz	2020	161136
2609	When Blockchain Meets Smart Grid: Secure Energy Trading in Demand Response Management	Kumari A., Gupta R., Tanwar S., Tyagi S., Kumar N.	Kumari, A., Nirma University, India; Gupta, R., Nirma University, India; Tanwar, S., Nirma University, India; Tyagi, S., Thapar Institute of Engineering and Technology, India; Kumar, N., Thapar Institute of Engineering and Technology, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Network	2020	8908044
2610	A robust approach to denoise ECG signals based on fractional Stockwell transform	Bajaj A., Kumar S.	Bajaj, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biomedical Signal Processing and Control	2020	17468094
2611	Breast tissue tumor detection using S parameter analysis with an UWB stacked aperture coupled microstrip patch antenna having a + shaped defected ground structure	Kaur G., Kaur A.	Kaur, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Microwave and Wireless Technologies	2020	17590787
2612	A taxonomy of AI techniques for 6G communication networks	Sheth K., Patel K., Shah H., Tanwar S., Gupta R., Kumar N.	Sheth, K., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Patel, K., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Shah, H., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Computer Communications	2020	1403664
2613	A taxonomy of blockchain-enabled softwarization for secure UAV network	Kumari A., Gupta R., Tanwar S., Kumar N.	Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, Saudi Arabia	Computer Communications	2020	1403664
2614	The protein-surfactant stoichiometry governs the conformational switching and amyloid nucleation kinetics of tau K18	Kaur J., Giri A., Bhattacharya M.	Kaur, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Thapar Technology Campus, Bhadson Road, Patiala, Punjab 147004, India; Giri, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Thapar Technology Campus, Bhadson Road, Patiala, Punjab 147004, India; Bhattacharya, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Thapar Technology Campus, Bhadson Road, Patiala, Punjab 147004, India	European Biophysics Journal	2020	1757571
2615	Decision-making model under complex picture fuzzy Hamacher aggregation operators	Akram M., Bashir A., Garg H.	Akram, M., Department of Mathematics, University of the Punjab, New Campus, Lahore, 54590, Pakistan; Bashir, A., Department of Mathematics, University of the Punjab, New Campus, Lahore, 54590, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Computational and Applied Mathematics	2020	22383603
2616	A fast locking and low jitter hybrid ADPLL architecture with bang bang PFD and PVT calibrated flash TDC	Sahani J.K., Singh A., Agarwal A.	Sahani, J.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India	AEU - International Journal of Electronics and Communications	2020	14348411
2617	Voxel-based 3D occlusion-invariant face recognition using game theory and simulated annealing	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, India	Multimedia Tools and Applications	2020	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2618	Curvelet transform based robust copyright protection scheme for color images using extended visual cryptography	Kukreja S., Kasana G., Kasana S.S.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Multimedia Tools and Applications	2020	13807501
2619	Feasibility Study on Use of Washed-Reclaimed Asphalt as a Partial Replacement of Natural Aggregate in Dry-Lean Concrete as Base Course for Rigid Pavement	Singh M., Adhikari A., Maurya M.K., Srivastava A., Chhabra R.S.	Singh, M., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Adhikari, A., School of Civil Engineering, Lovely Professional Univ., Phagwara, Punjab, 144411, India; Maurya, M.K., School of Civil Engineering, Lovely Professional Univ., Phagwara, Punjab, 144411, India; Srivastava, A., Birla Institute of Technology and Science, Pilani, Rajasthan, 333031, India; Chhabra, R.S., Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India	Journal of Materials in Civil Engineering	2020	8991561
2620	The wavelet transform-domain adaptive filter for nonlinear acoustic echo cancellation	Raghuwanshi J., Mishra A., Singh N.	Raghuwanshi, J., Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, A.B. Road, Guna, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (A deemed to be University), Patiala, India; Singh, N., Department of Electronics and Communication Engineering, Jaypee University of Engineering and Technology, A.B. Road, Guna, India	Multimedia Tools and Applications	2020	13807501
2621	IoT Enabled real-Time urban transport management system	Chauhan V., Patel M., Tanwar S., Tyagi S., Kumar N.	Chauhan, V., Department of Computer Science Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Patel, M., Department of Computer Science Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Computers and Electrical Engineering	2020	457906
2622	Construction of benchmark retinal image database for diabetic retinopathy analysis	Kaur J., Mittal D.	Kaur, J., Department of Research and Development, Chandigarh Group of Colleges (CGC), Mohali, India; Mittal, D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2020	9544119
2623	Parametric analysis of magnetorheological finishing process for improved performance of gear profile	Yadav R.D., Singh A.K., Arora K.	Yadav, R.D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Manufacturing Processes	2020	15266125
2624	Improving malware detection using big data and ensemble learning	Gupta D., Rani R.	Gupta, D., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Rani, R., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India	Computers and Electrical Engineering	2020	457906
2625	Extensions of electre-i and topsis methods for group decision-making under complex pythagorean fuzzy environment	Akram M., Garg H., Zahid K.	Akram, M., Department of Mathematics, University of the Punjab, New Campus, Lahore, 54590, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), P.O. Box, 32, Patiala, 147004, India; Zahid, K., Department of Mathematics, University of the Punjab, New Campus, Lahore, 54590, Pakistan	Iranian Journal of Fuzzy Systems	2020	17350654
2626	Power quality control based on voltage sag/swell, unbalancing, frequency, THD and power factor using artificial neural network in PV integrated AC microgrid	Kaushal J., Basak P.	Kaushal, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Sustainable Energy, Grids and Networks	2020	23524677
2627	The pharmaco-toxicological conundrum of oleander: Potential role of gut microbiome	Dey P.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biomedicine and Pharmacotherapy	2020	7533322
2628	Internet of Things (IoT), Applications and Challenges: A Comprehensive Review	Khanna A., Kaur S.	Khanna, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wireless Personal Communications	2020	9296212
2629	Blockchain-based security attack resilience schemes for autonomous vehicles in industry 4.0: A systematic review	Gupta R., Tanwar S., Kumar N., Tyagi S.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Computers and Electrical Engineering	2020	457906

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2630	Optimal resource selection framework for Internet-of-Things	Bharti M., Kumar R., Saxena S., Jindal H.	Bharti, M., Computer Science and Engineering Department, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh 173234, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jindal, H., Computer Science and Engineering Department, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh 173234, India	Computers and Electrical Engineering	2020	457906
2631	Enhanced magnetic frustration in a new high entropy diamond lattice spinel oxide	Marik S., Singh D., Gonano B., Veillon F., Pelloquin D., Bréard Y.	Marik, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, D., ISIS facility, STFC Rutherford Appleton Laboratory, Harwell Science and Innovation Campus, Oxfordshire, OX11 0QX, United Kingdom; Gonano, B., Centre for Materials Science and Nanotechnology, Department of Chemistry, University of Oslo, P.O. Box 1033, Oslo, N-0315, Norway; Veillon, F., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, Caen cedex 4, 14050, France; Pelloquin, D., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, Caen cedex 4, 14050, France; Bréard, Y., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, Caen cedex 4, 14050, France	Scripta Materialia	2020	13596462
2632	Time Series Analysis and Forecast of the COVID-19 Pandemic in India using Genetic Programming	Salgotra R., Gandomi M., Gandomi A.H.	Salgotra, R., Dept. of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Gandomi, M., School of Civil Engineering, University of Tehran, Tehran, Iran; Gandomi, A.H., Faculty of Engineering & Information Technology, University of Technology SydneyNSW 2007, Australia	Chaos, Solitons and Fractals	2020	9600779
2633	Blockchain and AI amalgamation for energy cloud management: Challenges, solutions, and future directions	Kumari A., Gupta R., Tanwar S., Kumar N.	Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Journal of Parallel and Distributed Computing	2020	7437315
2634	A novel capacitive mass sensor using an open-loop controlled microcantilever	Godara R.K., Sharma A.K., Joshi N., Joglekar M.M.	Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Sharma, A.K., Faculty of Mechanical Engineering, Technion-Israel Institute of Technology, Haifa, 32000, Israel; Joshi, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Joglekar, M.M., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee, 247 667, India	Microsystem Technologies	2020	9467076
2635	Cross-Layer Energy Based Clustering Technique for Heterogeneous Wireless Sensor Networks	Randhawa S., Jain S.	Randhawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Wireless Personal Communications	2020	9296212
2636	Measuring the maturity of Indian small and medium enterprises for unofficial readiness for capability maturity model integration-based software process improvement	Singh A., Gill S.S.	Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Gill, S.S., School of Electronic Engineering and Computer Science, Queen Mary University of London, London, United Kingdom	Journal of Software: Evolution and Process	2020	20477481
2637	Shoot organogenesis and assessment of clonal fidelity of regenerated plants of Ocimum tenuiflorum L.: Queen of Herbs	Aggarwal D., Neeti N., Reddy M.S., Kumar A.	Aggarwal, D., Department of Biotechnology, TIFAC-Center of Relevance & Excellence in Agro & Industrial Biotechnology (TIFAC-CORE), Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana 133207, India; Neeti, N., Department of Biotechnology, TIFAC-Center of Relevance & Excellence in Agro & Industrial Biotechnology (TIFAC-CORE), Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, TIFAC-Center of Relevance & Excellence in Agro & Industrial Biotechnology (TIFAC-CORE), Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, A., Department of Biotechnology, TIFAC-Center of Relevance & Excellence in Agro & Industrial Biotechnology (TIFAC-CORE), Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Vegetos	2020	9704078
2638	Performance analysis of multicore multimode fiber for passive optical network	Goyal S., Kaler R.S., Singh H.	Goyal, S., Department of Electronics and Communication Engineering, TIET, Patiala, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR), ECE Department, TIET, Patiala, Punjab, India; Singh, H., Department of Electronics and Communication Engineering, TIET, Patiala, India	Microwave and Optical Technology Letters	2020	8952477
2639	A novel trigonometric operation-based q-rung orthopair fuzzy aggregation operator and its fundamental properties	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2640	Physical properties and microstructure of plastic aggregate mortars made with acrylonitrile-butadiene-styrene (ABS), polycarbonate (PC), polyoxymethylene (POM) and ABS/PC blend waste	Kaur G., Pavia S.	Kaur, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pavia, S., Department of Civil Engineering, University of Dublin, Trinity College, Dublin 2, Ireland	Journal of Building Engineering	2020	23527102
2641	IEC 61850 based substation automation system: A survey	Aftab M.A., Hussain S.M.S., Ali I., Ustun T.S.	Aftab, M.A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Hussain, S.M.S., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0215, Japan; Ali, I., Department of Electrical Engineering, Jamia Millia Islamia (A Central University), Jamia Nagar, New Delhi, 110025, India; Ustun, T.S., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0215, Japan	International Journal of Electrical Power and Energy Systems	2020	1420615
2642	Multi-attribute group decision-making using double hierarchy hesitant fuzzy linguistic preference information	Krishankumar R., Ravichandran K.S., Shyam V., Sneha S.V., Kar S., Garg H.	Krishankumar, R., School of Computing, SASTRA University, Thanjavur, Tamil Nadu 613401, India; Ravichandran, K.S., School of Computing, SASTRA University, Thanjavur, Tamil Nadu 613401, India; Shyam, V., School of Computing, SASTRA University, Thanjavur, Tamil Nadu 613401, India; Sneha, S.V., School of Computing, SASTRA University, Thanjavur, Tamil Nadu 613401, India; Kar, S., Department of Mathematics, National Institute of Technology, Durgapur, West Bengal, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
2643	Speaker Classification with Support Vector Machine and Crossover-Based Particle Swarm Optimization	Kaur R., Sharma R.K., Kumar P.	Kaur, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Pattern Recognition and Artificial Intelligence	2020	2180014
2644	Mutually independent feature flow: An approach to produce fixed complexity latent space for improved performance and decreased parameter count	Bawa V.S., Kumar V.	Bawa, V.S., Visual Artificial Intelligence Laboratory, Oxford Brookes University, Oxford, India; Kumar, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Future Generation Computer Systems	2020	0167739X
2645	Real-time event-driven sensor data analytics at the edge-Internet of Things for smart personal healthcare	Ray P.P., Dash D., De D.	Ray, P.P., Department of Computer Applications, Sikkim University, Gangtok, India; Dash, D., Department of Computer Science and Engineering, National Institute of Technology Patna, Patna, India; De, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Supercomputing	2020	9208542
2646	In silico-guided identification of potential inhibitors against β 2m aggregation in dialysis-related amyloidosis	Narang S.S., Shuaib S., Goyal D., Goyal B.	Narang, S.S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Journal of Biomolecular Structure and Dynamics	2020	7391102
2647	Mapping the Intellectual Structure of Social Entrepreneurship Research: A Citation/Co-citation Analysis	Hota P.K., Subramanian B., Narayanamurthy G.	Hota, P.K., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Subramanian, B., Thiagarajar School of Management, Madurai, Tamil Nadu 625005, India, Indian Institute of Management Kozhikode, IIM Kozhikode Campus (P.O), Kunnammangalam, Kerala 673570, India; Narayanamurthy, G., University of Liverpool Management School, Chatham Street, Liverpool, L69 7ZH, United Kingdom	Journal of Business Ethics	2020	1674544
2648	Cloud Centric Authentication for Wearable Healthcare Monitoring System	Jangirala S., Das A.K., Kumar N., Rodrigues J.J.P.C.	Jangirala, S., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500, India; Das, A.K., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Rodrigues, J.J.P.C., National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, 37540-000, Brazil	IEEE Transactions on Dependable and Secure Computing	2020	15455971
2649	Optimal Integration of DG for Improvement of Economy and Voltage in Distribution Network	Kaur N., Jain S.K.	Kaur, N., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Jain, S.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	Canadian Conference on Electrical and Computer Engineering	2020	8407789
2650	Integrated data envelopment analysis and multicriteria decision-making ranking approach based on peer-evaluations and subjective preferences: case study in banking sector	Puri J., Verma M.	Puri, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Verma, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Data Technologies and Applications	2020	25149288

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2651	Reincarnating experience in education: A pedagogy of the twice-born	Roy K.	Roy, K., Thapar Institute of Engineering and Technology, Patiala, India	Reincarnating Experience in Education: A Pedagogy of the Twice-Born	2020	
2652	Chromogenic and fluorogenic "off-on-off" chemosensor for selective and sensitive detection of aluminum (Al ³⁺) and bifluoride (HF ₂ ⁻) ions in solution and in living Hep G2 cells: Synthesis, experimental and theoretical studies	Pramanik S., Manna S.K., Pathak S., Mondal D., Pal K., Mukhopadhyay S.	Pramanik, S., Department of Chemistry, Jadavpur University, Kolkata, 700032, India; Manna, S.K., Department of Chemistry, Haldia Government College, Debhog, Purba Medinipur West Bengal, India; Pathak, S., Department of Chemistry, Haldia Government College, Debhog, Purba Medinipur West Bengal, India; Mondal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Pal, K., Department of Life Science and Biotechnology, Jadavpur University, Kolkata, 700032, India; Mukhopadhyay, S., Department of Chemistry, Jadavpur University, Kolkata, 700032, India	New Journal of Chemistry	2020	11440546
2653	Hybrid deep learning and machine learning approach for passive image forensic	Thakur A., Jindal N.	Thakur, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IET Image Processing	2020	17519659
2654	Design of a modular wheelchair with posture transformation capabilities from sitting to standing	Dawar G., Kejariwal A., Kumar D.	Dawar, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kejariwal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Disability and Rehabilitation: Assistive Technology	2020	17483107
2655	Parametric optimization and MCR-ALS kinetic modeling of electro oxidation process for the treatment of textile wastewater	Kaur P., Imteaz M.A., Sillanpää M., Sangal V.K., Kushwaha J.P.	Kaur, P., Department of Separation Science, LUT University, Finland; Imteaz, M.A., Department of Civil & Construction Engineering, Swinburne University of Technology, Australia; Sillanpää, M., Department of Environment and Chemical Engineering, Institute of Research and Development, Duy Tan University, Viet Nam; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, India	Chemometrics and Intelligent Laboratory Systems	2020	1697439
2656	Synthesis of mesoporous magnetic Fe ₂ O ₃ /g-C ₃ N ₄ monoliths for Rhodamine B removal	Singh J., Basu S.	Singh, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, (Deemed to be University), Patiala, Punjab 147004, India	Microporous and Mesoporous Materials	2020	13871811
2657	Procurement of electrical energy and operating reserve ancillary services in wind incorporated deregulated system considering demand response	Sharma A., Jain S.K.	Sharma, A., Electrical and Instrumentation Engineering Department, Hapar Institute of Engineering and Technology, Patiala, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Hapar Institute of Engineering and Technology, Patiala, India	IET Generation, Transmission and Distribution	2020	17518687
2658	A feasibility study to utilize kitchen waste for power generation in urban areas using CI engine	Lal S., Mohapatra S.K.	Lal, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
2659	CO ₂ capture on activated carbon from PET (polyethylene terephthalate) waste: Kinetics and modeling studies	Kaur B., Gupta R.K., Bhunia H.	Kaur, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Chemical Engineering Communications	2020	986445
2660	An Edge-Fog Computing Framework for Cloud of Things in Vehicle to Grid Environment	Kumar N., Dhand T., Jindal A., Aujla G.S., Cao H., Yang L.	Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dhand, T., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, A., School of Computer Science and Electronic Engineering, University of Essex, Colchester, United Kingdom; Aujla, G.S., School of Computing, Newcastle University, Newcastle upon Tye, United Kingdom; Cao, H., College of Telecommunications and Information Engineering, Nanjing University of Posts and Telecommunications, China; Yang, L., College of Telecommunications and Information Engineering, Nanjing University of Posts and Telecommunications, China	Proceedings - 21st IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks, WoWMoM 2020	2020	
2661	QTL mapping for stripe rust and powdery mildew resistance in Triticum durum-Aegilops speltoides backcross introgression lines	Dhillon G.S., Kaur S., Das N., Singh R., Poland J., Kaur J., Chhuneja P.	Dhillon, G.S., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, India; Poland, J., Wheat Genetics Resource Centre, Kansas State University, Manhattan, KS, United States; Kaur, J., Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana, India; Chhuneja, P., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, India	Plant Genetic Resources: Characterisation and Utilisation	2020	14792621

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2662	HEALTH of THINGS MODEL for CLASSIFYING HUMAN HEART SOUND SIGNALS USING CO-OCCURRENCE MATRIX and SPECTROGRAM	Arora V., Ng E.Y.-K., Leekha R.S., Verma K., Gupta T., Srinivasan K.	Arora, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ng, E.Y.-K., School of Mechanical and Aerospace Engineering, Nanyang Technological University, SGP, China; Leekha, R.S., Associate Application Support, IT-App Development/Maintenance, Concentrix, Gurugram, India; Verma, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, T., Information Security Engineering, Soonchunhyang University, South Korea; Srinivasan, K., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, India	Journal of Mechanics in Medicine and Biology	2020	2195194
2663	Area-delay and energy efficient multi-operand binary tree adder	Patel S.K., Singhal S.K.	Patel, S.K., Ece, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Singhal, S.K., Ece, Jaypee University of Engineering and Technology, Guna, MP, India	IET Circuits, Devices and Systems	2020	1751858X
2664	Electron beam welding of precipitation hardened CuCrZr alloy: Modeling and experimentation	SINGH R., SINGH S., KANIGALPULA P.K.C., SAINI J.S.	SINGH, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab - 147004, India; SINGH, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab -147004, India; KANIGALPULA, P.K.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab -147004, India; SAINI, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab -147004, India	Transactions of Nonferrous Metals Society of China (English Edition)	2020	10036326
2665	Blockchain-Envisioned Secure Data Delivery and Collection Scheme for 5G-Based IoT-Enabled Internet of Drones Environment	Bera B., Saha S., Das A.K., Kumar N., Lorenz P., Alazab M.	Bera, B., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, India; Saha, S., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Lorenz, P., University of Haute Alsace, Colmar, France; Alazab, M., College of Engineering, It and Environment, Charles Darwin University, Casuarina, NT, Australia	IEEE Transactions on Vehicular Technology	2020	189545
2666	Detection of Low-Frequency and Multi-Stage Attacks in Industrial Internet of Things	Li X., Xu M., Vijayakumar P., Kumar N., Liu X.	Li, X., School of Cyber Engineering, Xidian University, Xi'an, China; Xu, M., School of Cyber Engineering, Xidian University, Xi'an, China; Vijayakumar, P., Department Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Liu, X., College of Mathematics and Computer Science, Fuzhou University, Fu'zhou, China	IEEE Transactions on Vehicular Technology	2020	189545
2667	PARC: Placement Availability Resilient Controller Scheme for Software-Defined Datacenters	Chaudhary R., Kumar N.	Chaudhary, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Vehicular Technology	2020	189545
2668	Hierarchically aligned nano silver/chitosan-PVA hydrogel for point-of-use water disinfection: contact-active mechanism revealed	Dhiman N.K., Agnihotri S.	Dhiman, N.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala-Punjab, 147004, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala-Punjab, 147004, India, TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala-Punjab, 147004, India, Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management Kundli, Sonapat-Haryana, 131028, India	Environmental Science: Nano	2020	20518153
2669	Call for Special Issue Papers: Internet of Things Data Visualization for Business Intelligence	Kumar N.	Kumar, N., Thapar Institute of Engineering, Thapar University, India	Big data	2020	2167647X
2670	Memory in a new variant of king's family for solving nonlinear systems	Kansal M., Cordero A., Bhalla S., Torregrosa J.R.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology University, Patiala, 147004, India; Cordero, A., Institute for Multidisciplinary Mathematics, Universitat Politècnica de València, Camino de Vera s/n, València, 46022, Spain; Bhalla, S., Department of Mathematics, Chandigarh University, Gharuan, 140413, India; Torregrosa, J.R., Institute for Multidisciplinary Mathematics, Universitat Politècnica de València, Camino de Vera s/n, València, 46022, Spain	Mathematics	2020	22277390
2671	ROS-induced cytotoxicity of colloidal copper nanoparticles in MCF-7 human breast cancer cell line: an in vitro study	Sharma P., Goyal D., Baranwal M., Chudasama B.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Nanoparticle Research	2020	13880764

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2672	Fabrication and Analysis of Wear Properties of Polyetherimide Composite Reinforced with Carbon Fiber	Shard A., Chand R., Nauriyal S., Gupta V., Garg M.P., Batra N.K.	Shard, A., Mechanical Engineering Department, DAV University, Jalandhar, Punjab 144001, India; Chand, R., Mechanical Engineering Department, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, India; Nauriyal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Garg, M.P., Mechanical Engineering Department, DAV University, Jalandhar, Punjab 144001, India; Batra, N.K., Mechanical Engineering Department, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, India	Journal of Failure Analysis and Prevention	2020	15477029
2673	In-vitro bioactivity of silicate-phosphate glasses using agriculture biomass silica	Kaur D., Reddy M.S., Pandey O.P.	Kaur, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Medicine	2020	9574530
2674	A review on recent progress in rare earth and transition metals activated SrY2O4 phosphors	Priya R., Kaur S., Sharma U., Pandey O.P., Dhoble S.J.	Priya, R., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kaur, S., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, U., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Dhoble, S.J., Department of Physics, R.T.M. Nagpur University, Nagpur, 440033, India	Journal of Materials Science: Materials in Electronics	2020	9574522
2675	Approximation by θ - Baskakov–Durrmeyer-Type Hybrid Operators	Kajla A., Mohiuddine S.A., Alotaibi A., Goyal M., Singh K.K.	Kajla, A., School of Basic Sciences, Central University of Haryana, Haryana, 123031, India; Mohiuddine, S.A., Department of General Required Courses, Mathematics, Faculty of Applied Studies, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, Operator Theory and Applications Research Group, Department of Mathematics, Faculty of Science, King Abdulaziz University, P. O. Box 80203, Jeddah, 21589, Saudi Arabia; Alotaibi, A., Operator Theory and Applications Research Group, Department of Mathematics, Faculty of Science, King Abdulaziz University, P. O. Box 80203, Jeddah, 21589, Saudi Arabia; Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K.K., Department of Applied Science and Humanities, Institute of Engineering and Technology, Sitapur Road, Lucknow, Uttar Pradesh 226021, India	Iranian Journal of Science and Technology, Transaction A: Science	2020	10286276
2676	An ultra wideband “OM” shaped DRA with a defected ground structure and dual polarization properties for 4G/5G wireless communications	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290
2677	Investigation on the combined effects of variable Fermi energies and temperatures on the performance of multilayer graphene nanoribbon as interconnects	Sharma H., Sandha K.S.	Sharma, H., Department of ECE, Thapar Institute of Engineering and Technology (Deemed To Be University), Patiala, 147004, India; Sandha, K.S., Department of ECE, Thapar Institute of Engineering and Technology (Deemed To Be University), Patiala, 147004, India	Analog Integrated Circuits and Signal Processing	2020	9251030
2678	Smart Charging Station to Cater the Sudden Ingress and Egress of EVs while Supporting the Frequency of Microgrid through VSG	Dhingra K., Singh M.	Dhingra, K., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Arabian Journal for Science and Engineering	2020	2193567X
2679	Biodegradation kinetic modeling of acrylic acid-grafted polypropylene during thermophilic phase of composting	Sable S., Ahuja S., Bhunia H.	Sable, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Bhadson Road, Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Bhadson Road, Patiala, Punjab 147004, India	Iranian Polymer Journal (English Edition)	2020	10261265
2680	Topology Control Algorithms for Wireless Sensor Networks: A Review	Singla P., Munjal A.	Singla, P., Thapar Institute of Engineering and Technology, Patiala, India; Munjal, A., Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2020	9296212
2681	Bearing remaining useful life estimation using an adaptive data-driven model based on health state change point identification and K-means clustering	Singh J., Darpe A.K., Singh S.P.	Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Darpe, A.K., Vibration Research Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India; Singh, S.P., Vibration Research Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India	Measurement Science and Technology	2020	9570233

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2682	Response surface optimization of the photocatalytic degradation of atenolol using immobilized graphene-TiO ₂ composite	Bhatia V., Manoli K., Dhir A., Ray A.K.	Bhatia, V., School of Energy and Environment, Thapar University, Patiala, India; Manoli, K., Department of Chemical and Biochemical Engineering, University of Western Ontario, London, ON, Canada; Dhir, A., School of Energy and Environment, Thapar University, Patiala, India; Ray, A.K., Department of Chemical and Biochemical Engineering, University of Western Ontario, London, ON, Canada	Canadian Journal of Chemical Engineering	2020	84034
2683	A Nonlinear Programming Approach to Solve the Stochastic Multi-objective Inventory Model Using the Uncertain Information	Waliv R.H., Mishra U., Garg H., Umap H.P.	Waliv, R.H., Kisan Veer Mahavidyalay, Waj, Maharashtra, India; Mishra, U., Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Vellore, Tamil Nadu 632014, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Umap, H.P., Yashwantrao Chavan Institute of Science, Satara, Maharashtra, India	Arabian Journal for Science and Engineering	2020	2193567X
2684	Investigation of Microwave Processing Parameters on Development of Ni-40Cr3C2 Composite Clad and Their Characterization	Mago J., Bansal S., Gupta D., Jain V.	Mago, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bansal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	2020	10735623
2685	Studies on Biodegradability of Cobalt Stearate Filled Polypropylene After Abiotic Treatment	Sable S., Ahuja S., Bhunia H.	Sable, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India	Journal of Polymers and the Environment	2020	15662543
2686	Blue light excited novel Eu doped CaGd ₂ ZnO ₅ nanophosphors: Structural and photoluminescent properties	Singla S., Priya R., Kaur S., Pandey O.P.	Singla, S., Functional Materials Lab, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Priya, R., Functional Materials Lab, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kaur, S., Functional Materials Lab, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Optik	2020	304026
2687	Improved Magnetic and Microwave Properties of La-Substituted Barium Hexaferrite Screen-Printed Thick Films	Verma S., Mahadevan S., Pahwa C., Singh A.P., Narang S.B., Aggarwal N., Sharma P.	Verma, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mahadevan, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pahwa, C., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Singh, A.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Aggarwal, N., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Superconductivity and Novel Magnetism	2020	15571939
2688	Deep learning based image classification for intestinal hemorrhage	Pannu H.S., Ahuja S., Dang N., Soni S., Malhi A.K.	Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, India; Ahuja, S., Thapar Institute of Engineering and Technology, Patiala, India; Dang, N., Thapar Institute of Engineering and Technology, Patiala, India; Soni, S., Thapar Institute of Engineering and Technology, Patiala, India; Malhi, A.K., Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2020	13807501
2689	Crisscross differential evolution algorithm for constrained hydrothermal scheduling	Kaur M., Dhillon J.S., Kothari D.P.	Kaur, M., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Dhillon, J.S., Electrical & Instrumentation Engineering Department, Sant Longowal Institute of Engineering and Technology, Sangrur, Punjab 148106, India; Kothari, D.P., Wainganga College of Engineering & Management, Nagpur, Maharashtra 441114, India	Applied Soft Computing Journal	2020	15684946
2690	A survey on brain tumor detection techniques for MR images	Chahal P.K., Pandey S., Goel S.	Chahal, P.K., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Pandey, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Goel, S., Department of Computer Science & Engineering Department, School of Engineering & Applied Sciences, Bennett University, Greater Noida, India	Multimedia Tools and Applications	2020	13807501
2691	Influence of photodeposition time and loading amount of Ag co-catalyst on growth, distribution and photocatalytic properties of Ag@TiO ₂ nanocatalysts	Bhardwaj S., Sharma D., Kumari P., Pal B.	Bhardwaj, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumari, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Optical Materials	2020	9253467
2692	Performance of zero cross correlation resultant weight spectral amplitude codes in lower Earth orbit-based optical wireless channel system	Kaur R., Kaler R.S.	Kaur, R., Department of ECE, TIET, Patiala, India; Kaler, R.S., Department of ECE, TIET, Patiala, India	International Journal of Communication Systems	2020	10745351

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2693	Optimal generation scheduling of pumped storage hydro-thermal system with wind energy sources	Patwal R.S., Narang N.	Patwal, R.S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Soft Computing Journal	2020	15684946
2694	Multi-objective generation scheduling of integrated energy system using fuzzy based surrogate worth trade-off approach	Patwal R.S., Narang N.	Patwal, R.S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Renewable Energy	2020	9601481
2695	AutoTrustRec: Recommender System with Social Trust and Deep Learning using AutoEncoder	Bathla G., Aggarwal H., Rani R.	Bathla, G., Punjabi University, Patiala, 147002, India; Aggarwal, H., Punjabi University, Patiala, 147002, India; Rani, R., Thapar University, Patiala, 147001, India	Multimedia Tools and Applications	2020	13807501
2696	Security of Cryptocurrencies in blockchain technology: State-of-art, challenges and future prospects	Ghosh A., Gupta S., Dua A., Kumar N.	Ghosh, A., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Gupta, S., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Dua, A., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Technology and Science, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan and King Abdul Aziz University, Jeddah, Saudi Arabia	Journal of Network and Computer Applications	2020	10848045
2697	Closed Form Expressions for Average Capacity and Symbol Error Rates Under Different Diversity Techniques Over EGK Fading Under Interference	Singh S.P., Kumar A., Mishra S., Kumar S.	Singh, S.P., Department of ECE, BIT, Mesra, Ranchi, India; Kumar, A., Department of ECE, TIET, Patiala, India; Mishra, S., IBM, Private Limited, Noida, Uttar Pradesh, India; Kumar, S., Department of ECE, BIT, Mesra, Ranchi, India	Wireless Personal Communications	2020	9296212
2698	Fractional S-Transform and Its Properties: A Comprehensive Survey	Ranjan R., Jindal N., Singh A.K.	Ranjan, R., Electronics & Communication Engineering Department, Chandigarh University, Gharuan (Mohali), Punjab, India; Jindal, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2020	9296212
2699	Feasibility analysis for machining serpentine microchannels on glass using rotary ultrasonic milling	Jain A., Singh G., Jain V., Gupta D.	Jain, A., Mechanical Engineering Department, Thapar Institute of Engineering = Technology (Deemed University), Patiala, Punjab, India; Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering = Technology (Deemed University), Patiala, Punjab, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering = Technology (Deemed University), Patiala, Punjab, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering = Technology (Deemed University), Patiala, Punjab, India	Measurement: Journal of the International Measurement Confederation	2020	2632241
2700	An efficient data integrity auditing protocol for cloud computing	Garg N., Bawa S., Kumar N.	Garg, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bawa, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Future Generation Computer Systems	2020	0167739X
2701	Analysis of size dependency on Love-type wave propagation in a functionally graded piezoelectric smart material	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Mathematics and Mechanics of Solids	2020	10812865
2702	Comparative Study of Air Pollution Modeling Techniques from Point Source(s) of Thermal Power Plant	Changotra R., Rajput H., Dhir A.	Changotra, R., School of Energy & Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rajput, H., School of Energy & Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Environmental Modeling and Assessment	2020	14202026
2703	Detecting clickbaits using two-phase hybrid CNN-LSTM biterm model	Kaur S., Kumar P., Kumaraguru P.	Kaur, S., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, P., Thapar Institute of Engineering and Technology, Patiala, India; Kumaraguru, P., Indraprastha Institute of Information Technology, Delhi, India	Expert Systems with Applications	2020	9574174
2704	Machine learning ensemble for neurological disorders	Kaur H., Malhi A.K., Pannu H.S.	Kaur, H., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Malhi, A.K., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Pannu, H.S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
2705	Enhanced crow search algorithm for AVR optimization	Bhullar A.K., Kaur R., Sondhi S.	Bhullar, A.K., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kaur, R., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Sondhi, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Soft Computing	2020	14327643
2706	Highly cited articles in "coronavirus" research: A bibliometric analysis	Ram S., Nisha F.	Ram, S., Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Nisha, F., DRDO-Defence Scientific Information & Information Centre (DESIDOC), Delhi, 110 054, India	DESIDOC Journal of Library and Information Technology	2020	9740643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2707	Process enhancement using hydrogen-induced shielding: H ₂ -induced A-TIG welding process	Tathgir S., Rathod D.W., Batish A.	Tathgir, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Materials and Manufacturing Processes	2020	10426914
2708	Superior co-catalytic activity of Pd(core)@Au(shell) nanocatalyst imparted to TiO ₂ for the selective hydrogenation under solar radiations	Bathla A., Pal B.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Solar Energy	2020	0038092X
2709	Source apportionment of PM10 by positive matrix factorization model at a source region of biomass burning	Saggu G.S., Mittal S.K.	Saggu, G.S., Department of Chemical Engineering and Technology, Thapar Institute of Engineering and Technology, Patiala, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Environmental Management	2020	3014797
2710	A stilbazolium dye-based chromogenic and red-fluorescent probe for recognition of 2,4,6-trinitrophenol in water	Dhiman S., Kumar G., Luxami V., Singh P., Kumar S.	Dhiman, S., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar Punjab, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Singh, P., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar Punjab, India; Kumar, S., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar Punjab, India	New Journal of Chemistry	2020	11440546
2711	Safety and efficacy of pseudomonas exopolymer in sequestration of iron from aqueous environments	Ghosh M., Sharma D., Kaur T.	Ghosh, M., Thapar Institute of Engineering and Technology, India; Sharma, D., Thapar Institute of Engineering and Technology, India; Kaur, T., Thapar Institute of Engineering and Technology, India	Recent Advancements in Bioremediation of Metal Contaminants	2020	
2712	Elastomeric Matrix Composites with Enhanced Hybrid Fuel Resistance via Percolation-Assisted Grafting	Parashar N., Sachdeva K., Chaudhari C.V., Prakash S B., Bhunia H., Kumar J., Dubey K.A., Melo J.S., Bhardwaj Y.K.	Parashar, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sachdeva, K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chaudhari, C.V., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, 400085, India; Prakash S, B., Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Trombay, 400085, India, Homi Bhabha National Institute, Mumbai, 400094, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, J., Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Trombay, 400085, India, Homi Bhabha National Institute, Mumbai, 400094, India; Dubey, K.A., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, 400085, India, Homi Bhabha National Institute, Mumbai, 400094, India; Melo, J.S., Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Trombay, 400085, India, Homi Bhabha National Institute, Mumbai, 400094, India; Bhardwaj, Y.K., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, 400085, India, Homi Bhabha National Institute, Mumbai, 400094, India	ACS Applied Polymer Materials	2020	26376105
2713	Properties and microstructure of concrete blocks incorporating drinking water treatment sludge exposed to early-age carbonation curing	Liu Y., Zhuge Y., Chow C.W.K., Keegan A., Li D., Pham P.N., Huang J., Siddique R.	Liu, Y., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia; Zhuge, Y., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia; Chow, C.W.K., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia, Future Industries Institute, University of South Australia, Adelaide, Australia; Keegan, A., Australian Water Quality Centre, South Australian Water Corporation, Adelaide, Australia; Li, D., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia; Pham, P.N., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia, Faculty of Bridge and Road Engineering, The University of Danang-University of Science and Technology, 54 Nguyen Luong Bang Str. Danang, Viet Nam; Huang, J., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia, Future Industries Institute, University of South Australia, Adelaide, Australia; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Cleaner Production	2020	9596526
2714	Utilization of treated saw dust in concrete as partial replacement of natural sand	Siddique R., Singh M., Mehta S., Belarbi R.	Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Mehta, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Belarbi, R., Department of Civil Engineering LaSIE, LA Rochelle University, UMR, CNRS7356, France	Journal of Cleaner Production	2020	9596526

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2715	Spectroscopy and molecular docking approach for investigation on the binding of nocodazole to human serum albumin	Singh I., Luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 14700, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 14700, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 14700, India	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2020	13861425
2716	A rapid, nanoporous zeolite based approach for removal of biochanin A in potable water destined for distribution	Singh P., Sharma V., Ghosh M.	Singh, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, India; Sharma, V., School of Life and Basic Science, Jaipur National University, India; Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, India	Drinking Water: Quality Control, Distribution Systems and Treatment	2020	
2717	The role of sphingomonas paucimobilis in intergeneric co-aggregation and mixed biofilm formation with water borne pathogenic bacteria in the distributed drinking water system: Implications of public health risk	Gulati P., Ghosh M.	Gulati, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, India; Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, India	Drinking Water: Quality Control, Distribution Systems and Treatment	2020	
2718	Analytical investigation in bond of deformed steel bars in recycled aggregate concrete	Gaurav G., Singh B.	Gaurav, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, B., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India	Journal of Sustainable Cement-Based Materials	2020	21650373
2719	Controlled diode bridge clamped three level Z source inverter and its PWM control	Singh S., Sonar S.	Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India	EPE Journal (European Power Electronics and Drives Journal)	2020	9398368
2720	Catalytic performance of modified beta zeolite on the synthesis of styrene and xylene: a kinetic study	Raparia Y., Halder G., Arya R., Barman S.	Raparia, Y., Department of Chemical Engineering, Thapar Institute of Engineering Technology, Patiala, India; Halder, G., Department of Chemical Engineering, NIT Durgapur, West Bengal, India; Arya, R., Department of Chemical Engineering, NIT Jalandhar, Jalandhar, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering Technology, Patiala, India	Indian Chemical Engineer	2020	194506
2721	A size-dependent micropolar-piezoelectric layered structure for the analysis of love wave	Goyal R., Kumar S., Sharma V.	Goyal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, V., Department of Mathematics, Lovely Professional University, Phagwara, Punjab, India	Waves in Random and Complex Media	2020	17455030
2722	Internet of Things (IoT) in Pharmaceutical Manufacturing, Warehousing, and Supply Chain Management	Sharma A., Kaur J., Singh I.	Sharma, A., Chitkara College of Pharmacy, Chitkara University, Punjab, India; Kaur, J., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, I., Chitkara College of Pharmacy, Chitkara University, Punjab, India	SN Computer Science	2020	2662995X
2723	Logical Unit Design using Reversible HSG1 Gate and Its Application in ALU Design	Rao H.P.G., Dwivedi S.	Rao, H.P.G., Thapar Institute of Engineering Technology, Dept. of Electronics and Communication Engineering, Patiala, India; Dwivedi, S., Buddha Institute of Technology, Dept. of Electronics and Communication Engineering, Gorakhpur, India	2020 11th International Conference on Computing, Communication and Networking Technologies, ICCCNT 2020	2020	
2724	Application of hybrid nature-inspired algorithm: Single and bi-objective constrained optimization of magnetic abrasive finishing process parameters	Babbar A., Prakash C., Singh S., Gupta M.K., Mia M., Pruncu C.I.	Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, C., Mechanical Engineering, Lovely Professional University, Phagwara, India; Singh, S., Mechanical Engineering, National University of Singapore, Singapore; Gupta, M.K., Key Laboratory of High Efficiency and Clean Mechanical Manufacture, Ministry of Education, School of Mechanical Engineering, Shandong University, Jinan, 250061, China; Mia, M., Mechanical Engineering, Imperial College London, Exhibition Rd, London, UK SW7 2AZ, United Kingdom; Pruncu, C.I., Mechanical Engineering, Imperial College London, Exhibition Rd, London, UK SW7 2AZ, United Kingdom, Mechanical Engineering Department, University of Birmingham, Birmingham, B15 2TT, United Kingdom	Journal of Materials Research and Technology	2020	22387854
2725	Optimization of hybrid WDM/TDM (16x1024) pon for future access systems	Singhal A., Gupta A., Singh S., Kaler R.S., Singh H., Singh G.	Singhal, A., CGC Group of Colleges, Landran, Punjab, India; Gupta, A., IKG Punjab Technical University, Jalandhar, India; Singh, S., SLIET, Sangrur, Longowal, India; Kaler, R.S., Thapar Institute, Patiala, India; Singh, H., Chandigarh University, Gharuan, Punjab, India; Singh, G., Chandigarh University, Gharuan, Punjab, India	Optoelectronics and Advanced Materials, Rapid Communications	2020	18426573
2726	Pharmacrypt: Blockchain for critical pharmaceutical industry to counterfeit drugs	Saxena N., Thomas I., Gope P., Burnap P., Kumar N.	Saxena, N., Cardiff University, Cardiff, United Kingdom; Thomas, I., Aptitude Software; Gope, P., University of Sheffield, United Kingdom; Burnap, P., Cardiff University, Cardiff, United Kingdom; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, India	Computer	2020	189162
2727	Floating-Gate MOSFET based Class-AB Flipped Voltage Follower Cell	Jindal C., Pandey R., Thakur A.	Jindal, C., Thapar Institute of Engineering and Technology, Department of ECE, Patiala, Punjab, India; Pandey, R., Thapar Institute of Engineering and Technology, Department of ECE, Patiala, Punjab, India; Thakur, A., Thapar Institute of Engineering and Technology, Department of ECE, Patiala, Punjab, India	2020 International Conference on Computational Performance Evaluation, ComPE 2020	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2728	Improving Cuckoo Search: Incorporating Changes for CEC 2017 and CEC 2020 Benchmark Problems	Salgotra R., Singh U., Saha S., Gandomi A.H.	Salgotra, R., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication, Patiala, India; Singh, U., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication, Patiala, India; Saha, S., Indian Institute of Technology, Dept. of Computer Science, Patna, India; Gandomi, A.H., University of Technology, Faculty of Engg. and It, Sydney, Australia	2020 IEEE Congress on Evolutionary Computation, CEC 2020 - Conference Proceedings	2020	
2729	Sign Language Generation System Based on Indian Sign Language Grammar	Sugandhi, Kumar P., Kaur S.	Sugandhi, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	ACM Transactions on Asian and Low-Resource Language Information Processing	2020	23754699
2730	An improved PV system with auto-protection to inject active power into the power grid of marine ships	Dhiman S., Nijhawan P.	Dhiman, S., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab, 147 004, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab, 147 004, India	Indian Journal of Geo-Marine Sciences	2020	25826506
2731	VAHAK: A blockchain-based outdoor delivery scheme using UAV for healthcare 4.0 services	Gupta R., Shukla A., Mehta P., Bhattacharya P., Tanwar S., Tyagi S., Kumar N.	Gupta, R., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Shukla, A., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Mehta, P., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Bhattacharya, P., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India	IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2020	2020	
2732	Information classification strategy for blockchain-based Secure SDN in IoT Scenario	Zhang P., Liu F., Kumar N., Aujla G.S.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Liu, F., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Kumar, N., Thapar Institute of Engineering Technology, Computer Science and Engineering Department, Patiala, Punjab, India; Aujla, G.S., School of Computing, Newcastle University, Newcastle Upon Tyne, United Kingdom	IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2020	2020	
2733	Energy efficient mode selection scheme for wireless powered D2D communications with NOMA underlying UAV	Budhiraja I., Kumar N., Tyagi S., Pham Q.-V., Tanwar S.	Budhiraja, I., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India; Tyagi, S., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India; Pham, Q.-V., Research Institute of Computers, Information and Communication, Pusan National University, South Korea; Tanwar, S., Nirma University, Ahmedabad, Gujarat, India	IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2020	2020	
2734	Blockchain-based E-waste management in 5G smart communities	Dua A., Dutta A., Zaman N., Kumar N.	Dua, A., BITS Pilani, Department of Computer Science and Information Systems, Pilani, India; Dutta, A., BITS Pilani, Department of Computer Science and Information Systems, Pilani, India; Zaman, N., BITS Pilani, Department of Computer Science and Information Systems, Pilani, India; Kumar, N., Thapar University, Computer Science and Engineering Department, Patiala, Punjab, India	IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2020	2020	
2735	Recurrent Neural Network Based Intrusion Detection System	Nayyar S., Arora S., Singh M.	Nayyar, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Arora, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Singh, M., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	Proceedings of the 2020 IEEE International Conference on Communication and Signal Processing, ICCSP 2020	2020	
2736	A hybrid drought index for drought assessment in Wadi shueib catchment area in Jordan	Al Balasmeh O., Babbar R., Karmaker T.	Al Balasmeh, O., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Hydroinformatics	2020	14647141
2737	ET-DeaL: A P2P smart contract-based secure energy trading scheme for smart grid systems	Kumari A., Shukla A., Gupta R., Tanwar S., Tyagi S., Kumar N.	Kumari, A., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Shukla, A., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Gupta, R., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, Gujarat, India; Tyagi, S., Thapar Institute of Engineering Technology (Deemed to Be University), Patiala, Punjab, India; Kumar, N.	IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPS 2020	2020	
2738	Vertex rough graphs	Mathew B., John S.J., Garg H.	Mathew, B., Department of Mathematics, National Institute of Technology, Calicut, India; John, S.J., Department of Mathematics, National Institute of Technology, Calicut, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Complex and Intelligent Systems	2020	21994536
2739	AdaptFlow: Adaptive Flow Forwarding Scheme for Software-Defined Industrial Networks	Aujla G.S., Singh A., Kumar N.	Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Patiala, 140413, India; Singh, A., Computer Science and Engineering Department, Chandigarh University, Patiala, 140413, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 140413, India	IEEE Internet of Things Journal	2020	23274662

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2740	Hall effect instruments, evolution, implications, and future prospects	Goel N., Babuta A., Kumar A., Ganguli S.	Goel, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Babuta, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Review of Scientific Instruments	2020	346748
2741	High-speed and area-efficient scalable N-bit digital comparator	Tyagi P., Pandey R.	Tyagi, P., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IET Circuits, Devices and Systems	2020	1751858X
2742	An Energy-Efficient Resource Allocation Scheme for SWIPT-NOMA Based Femtocells Users with Imperfect CSI	Budhiraja I., Kumar N., Tyagi S., Tanwar S., Guizani M.	Budhiraja, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia; Tyagi, S., Department of Ece, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Patiala, 147004, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Guizani, M., College of Engineering, Qatar University, Doha, 2731, Qatar	IEEE Transactions on Vehicular Technology	2020	189545
2743	Mutational frequencies of SARS-CoV-2 genome during the beginning months of the outbreak in USA	Kaushal N., Gupta Y., Goyal M., Khaiboullina S.F., Baranwal M., Verma S.C.	Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, Y., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Talwar and Talwar Consultants, Mohali, 160055, India; Khaiboullina, S.F., Department of Microbiology and Immunology, University of Nevada, Reno, NV 89557, United States, Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, S.C., Department of Microbiology and Immunology, University of Nevada, Reno, NV 89557, United States	Pathogens	2020	20760817
2744	MAC protocols for unmanned aerial vehicle ecosystems: Review and challenges	Vashisht S., Jain S., Aujla G.S.	Vashisht, S., Shree Guru Gobind Singh Tricentenary University, Gurugram, Haryana, India, Thapar Institute of Engineering & Technology, Punjab, India; Jain, S., Thapar Institute of Engineering & Technology, Punjab, India; Aujla, G.S., School of Computing, Newcastle University, United Kingdom	Computer Communications	2020	1403664
2745	Formability Analysis of AA1200 H14 Aluminum Alloy Using Single Point Incremental Forming Process	Kumar N., Singh A., Agrawal A.	Kumar, N., Department of Mechanical Engineering, CT University, Ludhiana, Punjab 142024, India; Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Agrawal, A., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, India	Transactions of the Indian Institute of Metals	2020	9722815
2746	Commentary on "On Intuitionistic Fuzzy Copula Aggregation Operators in Multiple-Attribute Decision Making"	Kaur A., Kumar A.	Kaur, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India	Cognitive Computation	2020	18669956
2747	S3A: Smart Station Search Assistance for Electric Vehicle?A Step Toward Smart City	Goel S., Kumar R., Kumar A., Malhotra R.	Goel, S., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Thapar Institute of Engineering and Technology, Patiala, India; Malhotra, R., Chitkara University, Rajpura, India	IEEE Consumer Electronics Magazine	2020	21622248
2748	Effect of surface topography on pull-out strength of cortical screw after ultrasonic bone drilling: an in vitro study	Agarwal R., Jain V., Gupta V., Saxena S., Dwivedi V.	Agarwal, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Dwivedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	16785878
2749	GUARDIAN: Blockchain-Based Secure Demand Response Management in Smart Grid System	Jindal A., Aujla G.S., Kumar N., Villari M.	Jindal, A., School of Computing and Communications, Lancaster University, Lancaster, LA1 4WA, United Kingdom; Aujla, G.S., School of Computing, Newcastle University, Newcastle Upon Tyne, NE4 5TG, United Kingdom, Computer Science and Engineering Department, Chandigarh University, Punjab, 140413, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, Asia University, Taichung City, 41354, Taiwan; Villari, M., Faculty of Engineering, University of Messina, Messina, 98122, Italy	IEEE Transactions on Services Computing	2020	19391374
2750	Doping engineering to enhance the performance of a rectangular core shell double gate junctionless field effect transistor	Narula V., Agarwal M.	Narula, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala Punjab, 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala Punjab, 147004, India	Semiconductor Science and Technology	2020	2681242

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2751	Over-expression of Osmotin (OsmWS) gene of Withania somnifera in potato cultivar 'Kufri Chipsona 1' imparts resistance to Alternaria solani	Kaur A., Sudhakara Reddy M., Pati P.K., Kumar A.	Kaur, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India; Sudhakara Reddy, M., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India; Pati, P.K., Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India	Plant Cell, Tissue and Organ Culture	2020	1676857
2752	Application of hybrid GLCT-PICA de-noising method in automated EEG artifact removal	Jindal K., Upadhyay R., Singh H.S.	Jindal, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 002, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 002, India, Neuroscience Laboratory, Trinity College Institute of Neuroscience, Trinity College Dublin, Ireland; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 002, India	Biomedical Signal Processing and Control	2020	17468094
2753	Hyper-parameter optimization of deep learning model for prediction of Parkinson's disease	Kaur S., Aggarwal H., Rani R.	Kaur, S., Department of Computer Engineering, Punjabi University, Patiala, 147002, India; Aggarwal, H., Department of Computer Engineering, Punjabi University, Patiala, 147002, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Machine Vision and Applications	2020	9328092
2754	Reduced order model based FOPID controller design for power control in Pressurized Heavy Water Reactor with specific gain –phase margin	Lamba R., Sondhi S., Singla S.K.	Lamba, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sondhi, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singla, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Progress in Nuclear Energy	2020	1491970
2755	Continuous angular position estimation of human ankle during unconstrained locomotion	Gupta R., Dhindsa I.S., Agarwal R.	Gupta, R., Electrical and Instrumentation Engineering Department, TIET, Patiala, Punjab, India; Dhindsa, I.S., Electronics & Communication Engineering Department, Government Polytechnic, Ambala City, India; Agarwal, R., Electrical and Instrumentation Engineering Department, TIET, Patiala, Punjab, India	Biomedical Signal Processing and Control	2020	17468094
2756	New Grounded and Floating Decremental/Incremental Memristor Emulators Based on CDTA and Its Application	Gupta S., Rai S.K.	Gupta, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2020	9296212
2757	A class-AB flipped voltage follower cell with high symmetrical slew rate and high current sourcing/sinking capability	Jindal C., Pandey R.	Jindal, C., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2020	989886
2758	Wear studies of hybrid AMCs reinforced with naturally occurring sillimanite and rutile ceramic particles for brake-rotor applications	Gupta R., Sharma S., Nanda T., Pandey O.P.	Gupta, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ceramics International	2020	2728842
2759	An innovative two-stage data compression scheme using adaptive block merging technique	Vohra H., Singh A., Gill S.S.	Vohra, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gill, S.S., School of Electronic Engineering and Computer Science, Queen Mary University of London, United Kingdom	Integration	2020	1679260
2760	Long range magnetic ordering and magneto-(di) electric effect in a new class of high entropy spinel oxide	Marik S., Singh D., Gonano B., Veillon F., Pelloquin D., Bréard Y.	Marik, S., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, 14050 Caen cedex 4, France, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, D., ISIS facility, STFC Rutherford Appleton Laboratory, Harwell Science and Innovation Campus, Oxfordshire OX11 0QX, United Kingdom; Gonano, B., Centre for Materials Science and Nanotechnology, Department of Chemistry, University of Oslo, P.O. Box 1033, Oslo, N-0315, Norway; Veillon, F., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, 14050 Caen cedex 4, France; Pelloquin, D., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, 14050 Caen cedex 4, France; Bréard, Y., Laboratory Crismat, UMR6508 CNRS, Normandie University, ENSICAEN, UNICAEN, 6 bd Maréchal Juin, 14050 Caen cedex 4, France	Scripta Materialia	2020	13596462
2761	Sustainable manufacturing. Bibliometrics and content analysis	Bhatt Y., Ghuman K., Dhir A.	Bhatt, Y., LM Thapar School of Management, Thapar Institute of Engineering and Technology, (Deemed to be University), Dera Bassi, District MohaliPunjab 140507, India; Ghuman, K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, (Deemed to be University), Dera Bassi, District MohaliPunjab 140507, India; Dhir, A., School of Business and Management, Lappeenranta University of Technology, Lappeenranta, Finland, Turku School of Economics, University of Turku, Finland, Optentia Research Focus Area, North-West University, South Africa	Journal of Cleaner Production	2020	9596526

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2762	Development of emotion classifier based on absolute and differential attributes of averaged signals of visually stimulated event related potentials	Singh M.I., Singh M.	Singh, M.I., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India	Transactions of the Institute of Measurement and Control	2020	1423312
2763	A complementary Sierpinski gasket fractal antenna array integrated with a complementary Archimedean defected ground structure for portable 4G/5G UWB MIMO communication devices	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Microwave and Optical Technology Letters	2020	8952477
2764	An adaptive framework to image watermarking based on the twin support vector regression and genetic algorithm in lifting wavelet transform domain	Mehta R., Gupta K., Yadav A.K.	Mehta, R., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, K., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, A.K., Amity School of Engineering and Technology, Noida, India	Multimedia Tools and Applications	2020	13807501
2765	Blockchain technology toward green IoT: Opportunities and challenges	Sharma P.K., Kumar N., Park J.H.	Sharma, P.K., Department of Multimedia Engineering, Dongguk University, Seoul, South Korea; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Park, J.H., Department of Computer Science and Engineering, Seoul National University of Science and Technology (SeoulTech), Seoul, South Korea	IEEE Network	2020	8908044
2766	Design and development of enhanced bandwidth multi-frequency slotted antenna for 4G-LTE/WiMAX/WLAN and S/C/X-band applications	Sah B.K., Singla G., Sharma S.	Sah, B.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singla, G., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290
2767	Lightweight Mutual Authentication Protocol for V2G Using Physical Unclonable Function	Bansal G., Naren N., Chamola V., Sikdar B., Kumar N., Guizani M.	Bansal, G., Department of Electrical and Electronics Engineering, BITS-Pilani, Pilani, India; Naren, N., Department of Electrical and Electronics Engineering, BITS-Pilani, Pilani, India; Chamola, V., Department of Electrical and Electronics Engineering, BITS-Pilani, Pilani, India; Sikdar, B., Department of Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore; Kumar, N., Department of Computer Science, Thapar University, Patiala, India; Guizani, M., Department of Computer Science, Qatar University, Doha, Qatar	IEEE Transactions on Vehicular Technology	2020	189545
2768	A computational study on air entrapment and its effect on convective heat transfer during droplet impact on a substrate	Kumar R., Shukla R.K., Kumar A., Kumar A.	Kumar, R., Department of Mechanical Engineering, National Institute of Technology Kurukshetra, Kurukshetra, 136119, India; Shukla, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India; Kumar, A., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India; Kumar, A., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India	International Journal of Thermal Sciences	2020	12900729
2769	An efficient deep learning-based scheme for web spam detection in IoT environment	Makkar A., Kumar N.	Makkar, A., Computer Science Engineering Department, Chandigarh University Chandigarh, India; Kumar, N., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Future Generation Computer Systems	2020	0167739X
2770	Orientation-based Ant colony algorithm for synthesizing the test scenarios in UML activity diagram	Arora V., Singh M., Bhatia R.	Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Singh, M., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Bhatia, R., Computer Science & Engineering Department, PEC, Chandigarh, India	Information and Software Technology	2020	9505849
2771	New grounded and floating memristor emulators using OTA and CDDBA	Yadav N., Rai S.K., Pandey R.	Yadav, N., Electronics and Communication Engineering Department (ECED), Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Electronics and Communication Engineering Department (ECED), Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Electronics and Communication Engineering Department (ECED), Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Circuit Theory and Applications	2020	989886
2772	An efficient bi-layer content based image retrieval system	Singh S., Batra S.	Singh, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2020	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2773	PARTH: A two-stage lightweight mutual authentication protocol for UAV surveillance networks	Alladi T., Chamola V., Naren, Kumar N.	Alladi, T., Department of Electrical and Electronics Engineering, BITS-Pilani, India; Chamola, V., Department of Electrical and Electronics Engineering, BITS-Pilani, India; Naren, Department of Electrical and Electronics Engineering, BITS-Pilani, India; Kumar, N., Department of Computer Science and Information Engineering, Asia University, Taiwan; King Abdulaziz University, Jeddah, Saudi Arabia and Thapar Institute of Engineering and Technology, Patiala, India	Computer Communications	2020	1403664
2774	Voxel-based 3D face reconstruction and its application to face recognition using sequential deep learning	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, India	Multimedia Tools and Applications	2020	13807501
2775	Hiding clinical information in medical images: an enhanced encrypted reversible data hiding algorithm grounded on hierarchical absolute moment block truncation coding	Bhardwaj R., Aggarwal A.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multidimensional Systems and Signal Processing	2020	9236082
2776	SAPDA: Secure Authentication with Protected Data Aggregation Scheme for Improving QoS in Scalable and Survivable UWSNs	Goyal N., Dave M., Verma A.K.	Goyal, N., Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India; Dave, M., Department of Computer Engineering, National Institute of Technology, Kurukshetra, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Wireless Personal Communications	2020	9296212
2777	Performance Analysis of Cooperative Underlay Spectrum Sharing System in Co-channel Interference Limited Environment	Sood V.V., Bindra K.V., Khanna R., Sharma S.	Sood, V.V., ECED, TIET, Patiala, Punjab, India; Bindra, K.V., ECED, TIET, Patiala, Punjab, India; Khanna, R., ECED, TIET, Patiala, Punjab, India; Sharma, S., ECED, TIET, Patiala, Punjab, India	Wireless Personal Communications	2020	9296212
2778	IEC 61850 based energy management system using plug-in electric vehicles and distributed generators during emergencies	Hussain S.M.S., Aftab M.A., Ali I., Ustun T.S.	Hussain, S.M.S., Fukushima Renewable Energy Institute, AIST (FREA), Koriyama, 963-0215, Japan; Aftab, M.A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala 147001, Punjab, India; Ali, I., Department of Electrical Engineering, Jamia Millia Islamia (A Central University), Jamia Nagar, New Delhi, 110025, India; Ustun, T.S., Fukushima Renewable Energy Institute, AIST (FREA), Koriyama, 963-0215, Japan	International Journal of Electrical Power and Energy Systems	2020	1420615
2779	Flexural, pull-out, and fractured surface characterization for multi-material 3D printed functionally graded prototype	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India	Journal of Composite Materials	2020	219983
2780	Intelligent content-based cybercrime detection in online social networks using cuckoo search metaheuristic approach	Singh A., Kaur M.	Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India	Journal of Supercomputing	2020	9208542
2781	An integrated optimization technique for optimal power flow solution	Kaur M., Narang N.	Kaur, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Soft Computing	2020	14327643
2782	Novel neutrality aggregation operator-based multiattribute group decision-making method for single-valued neutrosophic numbers	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Soft Computing	2020	14327643
2783	A Wide Frequency Range Low Jitter Integer PLL with Switch and Inverter Based CP in 0.18 μ m CMOS Technology	Sahani J.K., Singh A., Agarwal A.	Sahani, J.K., Eced, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Eced, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Eced, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Circuits, Systems and Computers	2020	2181266
2784	Writer identification system for pre-segmented offline handwritten Devanagari characters using k-NN and SVM	Dargan S., Kumar M., Garg A., Thakur K.	Dargan, S., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Garg, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Thakur, K., Department of Professional Security Studies, Cyber Security, New Jersey City University, Jersey City, United States	Soft Computing	2020	14327643
2785	Neutrality operations-based Pythagorean fuzzy aggregation operators and its applications to multiple attribute group decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Journal of Ambient Intelligence and Humanized Computing	2020	18685137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2786	A robust correlation coefficient for probabilistic dual hesitant fuzzy sets and its applications	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
2787	Binary spotted hyena optimizer and its application to feature selection	Kumar V., Kaur A.	Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Ambient Intelligence and Humanized Computing	2020	18685137
2788	A Systematic Literature Review on Computational Musicology	Mor B., Garhwal S., Kumar A.	Mor, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Archives of Computational Methods in Engineering	2020	11343060
2789	Erosion tribo-performance of HVOF deposited Stellite-6 and Colmonoy-88 micron layers on SS-316L	Singh J., Kumar S., Mohapatra S.K.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Tribology International	2020	0301679X
2790	Design and analysis of authenticated key agreement scheme in cloud-assisted cyber-physical systems	Challa S., Das A.K., Gope P., Kumar N., Wu F., Vasilakos A.V.	Challa, S., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Gope, P., Department of Computer Science, National University of Singapore, Singapore; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala 147 004, India; Wu, F., Department of Computer Science and Engineering, Xiamen Institute of Technology, Xiamen, 361 021, China; Vasilakos, A.V., Lab of Networks and Cybersecurity, Innopolis University, Russia, 1, Universitetskaya Str., Innopolis, 420500, Russian Federation	Future Generation Computer Systems	2020	0167739X
2791	Internet of energy-based demand response management scheme for smart homes and PHEVs using SVM	Jindal A., Kumar N., Singh M.	Jindal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India, Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India, Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singh, M., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India, Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Future Generation Computer Systems	2020	0167739X
2792	A unified framework for big data acquisition, storage, and analytics for demand response management in smart cities	Jindal A., Kumar N., Singh M.	Jindal, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Future Generation Computer Systems	2020	0167739X
2793	How Does the Mono-Triazole Derivative Modulate Aβ42Aggregation and Disrupt a Protofibril Structure: Insights from Molecular Dynamics Simulations	Kaur A., Kaur A., Goyal D., Goyal B.	Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib Punjab, 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib Punjab, 140406, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib Punjab, 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	ACS Omega	2020	24701343
2794	Durability characteristics of self-compacting concrete made with copper slag	Gupta N., Siddique R.	Gupta, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	Construction and Building Materials	2020	9500618
2795	A 2.3 mW Multi-Frequency Clock Generator with - 137 dBc/Hz Phase Noise VCO in 180 nm Digital CMOS Technology	Sahani J.K., Singh A., Agarwal A.	Sahani, J.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Circuits, Systems and Computers	2020	2181266
2796	What Role Does Human Behaviour Play in Corporate Frauds?	Sayal K., Singh G.	Sayal, K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Mohali, India; Singh, G., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Mohali, India	Economic and Political Weekly	2020	129976
2797	Carbon Dot-MnO2Nanosphere Composite Sensors for Selective Detection of Glutathione	Sohal N., Maity B., Basu S.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Applied Nano Materials	2020	25740970
2798	Modelling of flexural response of simply supported RC skew slab	Sharma M., Kwatra N., Singh H.	Sharma, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Singh, H., Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana, 141 006, India	Current Science	2020	113891

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2799	Study of Fusion of medical images and classification comparison using different kernels of SVM and K-NN classifiers	Kaur J., Singh M., Singla S.K.	Kaur, J., Electrical Instrumentation and Control Department, Thapar Insitute of Engineering and Technology, Patiala, India; Singh, M., Electrical Instrumentation and Control Department, Thapar Insitute of Engineering and Technology, Patiala, India; Singla, S.K., Electrical Instrumentation and Control Department, Thapar Insitute of Engineering and Technology, Patiala, India	2020 1st IEEE International Conference on Measurement, Instrumentation, Control and Automation, ICMICA 2020	2020	
2800	Biofertilizer as a tool for soil fertility management in changing climate	Singh B., Upadhyay A.K., Al-Tawaha T.W., Al-Tawaha A.R., Sirajuddin S.N.	Singh, B., School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, 144411, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Al-Tawaha, T.W., Department of Biological Sciences, Al Hussein Bin Talal University, P.O. Box 20, Ma'an, Jordan; Al-Tawaha, A.R., Department of Crop Science, Faculty of Agriculture, University Putra Malaysia, Serdang, Selangor, 43400, Malaysia; Sirajuddin, S.N., Department of Socio Economics, Faculty of Animal Husbandry, Hasanuddin University, Indonesia	IOP Conference Series: Earth and Environmental Science	2020	17551307
2801	Power quality control through automated demand side management in microgrid equipped with battery energy storage for protection	Kaushal J., Basak P.	Kaushal, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Generation, Transmission and Distribution	2020	17518687
2802	A computational study of excess properties for mW potential model of water in supercooled region	Gautam A.K., Chandra A.	Gautam, A.K., Department of Chemical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, 177005, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physica A: Statistical Mechanics and its Applications	2020	3784371
2803	Correlation of spin, size and structure in sol-gel prepared doped BiFeO ₃ nanoparticles	Dhir G., Verma N.K.	Dhir, G., Public College, Samana, Patiala, 147101, India; Verma, N.K., Nano Research Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Journal of Molecular Structure	2020	222860
2804	A Modified Two-Step ANN Ensemble Approach to Improve Generalization and its Application in Fractal Antenna Design	Dhaliwal B.S., Kaur G., Saini N., Pattnaik S.S., Josan S.K.	Dhaliwal, B.S., Department of ECE, Guru Nanak Dev Engineering College, Punjab, 141001, India; Kaur, G., Thapar Institute of Engineering and Technology (Deemed University), Punjab, 147001, India; Saini, N., Cummins India Limited, Kothrud, Pune, 411038, India; Pattnaik, S.S., National Institute of Technical Teachers Training and Research, Chandigarh, India; Josan, S.K., Department of ECE, Guru Nanak Dev Engineering College, Punjab, 141001, India	Journal of Circuits, Systems and Computers	2020	2181266
2805	Development and functionalization of magnetic nanoparticles as stable and reusable catalysts for triacetin synthesis	Abida K., Chudasama B., Ali A.	Abida, K., School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics & Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	New Journal of Chemistry	2020	11440546
2806	Highly fluorescent carbon dots derived from Mangifera indica leaves for selective detection of metal ions	Singh J., Kaur S., Lee J., Mehta A., Kumar S., Kim K.-H., Basu S., Rawat M.	Singh, J., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Kaur, S., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Lee, J., Department of Environmental and Safety Engineering, Ajou University, Suwon, 16499, South Korea; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Kim, K.-H., Department of Civil & Environmental Engineering, Hanyang University, Seoul, 04763, South Korea; Basu, S., Department of Environmental and Safety Engineering, Ajou University, Suwon, 16499, South Korea; Rawat, M., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India	Science of the Total Environment	2020	489697
2807	A Short and Efficient Enantioselective Synthesis of (+)-(2S,3S,5S)-epi-Muscarine	Gehlawat A., Prakash R., Kumar Pandey S.	Gehlawat, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Kumar Pandey, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India, Department of Chemistry Institute of Science, Banaras Hindu University, Varanasi, 221 005, India	ChemistrySelect	2020	23656549
2808	Targeting the Dimerization of the Main Protease of Coronaviruses: A Potential Broad-Spectrum Therapeutic Strategy	Goyal B., Goyal D.	Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India	ACS Combinatorial Science	2020	21568952
2809	Performance enhancement of core-shell JLFET by gate/dielectric engineering	Narula V., Agarwal M.	Narula, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India	International Journal of Electronics	2020	207217
2810	A simple combinatorial treatment for the q-series interpreted by Agarwal	Sharma S., Rana M.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Utilitas Mathematica	2020	3153681

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2811	Homology modeling, docking, absorption, distribution, metabolism, excretion and toxicity studies and prediction of deleterious non-synonymous single nucleotide polymorphisms (nssnps) of thiamin phosphate synthase: A potential drug target in plasmodium falciparum	Singh S.K., Reddy M.S.	Singh, S.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Indian Journal of Pharmaceutical Sciences	2020	0250474X
2812	IoT Enabled Low-Cost Indoor Air Quality Monitoring System with Botanical Solutions	Kaur S., Bawa S., Sharma S.	Kaur, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India; Bawa, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India; Sharma, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	
2813	Line Follower Robot: Design and Hardware Application	Tayal S., Rao H.P.G., Bhardwaj S., Aggarwal H.	Tayal, S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Rao, H.P.G., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Bhardwaj, S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Aggarwal, H., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	
2814	Big Data Analytics: Applications, Challenges Future Directions	Garg T., Khullar S.	Garg, T., Thapar Institute of Engineering Technology, Computer Science Engineering Department, Patiala, India; Khullar, S., Thapar Institute of Engineering Technology, Computer Science Engineering Department, Patiala, India	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)	2020	
2815	Deep learning-based explainable target classification for synthetic aperture radar images	Mandeep, Pannu H.S., Malhi A.	Mandeep, Thapar Institute of Engg. Tech., Computer Science and Engineering Department, Patiala, India; Pannu, H.S., Thapar Institute of Engg. Tech., Computer Science and Engineering Department, Patiala, India; Malhi, A., Aalto University, Computer Science Department, Finland	International Conference on Human System Interaction, HSI	2020	21582246
2816	Optimization of turning parameters of titanium chrome-molybdenum (Ti-cr-mo) alloy using taguchi method	Singh M., Singh G., Jayant A.	Singh, M., Thapar University, Patiala, 147001, India; Singh, G., Sant Longowal Institute of Engineering & Technology, Longowal, 148106, India; Jayant, A., Sant Longowal Institute of Engineering & Technology, Longowal, 148106, India	Indian Journal of Engineering and Materials Sciences	2020	9714588
2817	Friction stir welding of copper: Processing and multi-objective optimization	Singh G., Thakur A., Singh S., Sharma N.	Singh, G., Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India, Dr. B. R. Ambedker National Institute of Technology, Jalandhar, Punjab 144011, India; Thakur, A., Dr. B. R. Ambedker National Institute of Technology, Jalandhar, Punjab 144011, India; Singh, S., Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab 147004, India, Design Engineer, Industrial Electric Mfg(IEM)BC V4W 3W7, Canada; Sharma, N., Maharishi Markandeshwar Deemed University, Mullana, Haryana 133207, India	Indian Journal of Engineering and Materials Sciences	2020	9714588
2818	Experimental study on developed electrochemical micro machining of hybrid MMC	Kalra C.S., Kumar V., Manna A.	Kalra, C.S., Mechanical Engineering Department, Chandigarh University, Mohali, Gharuan, Punjab 160055, India; Kumar, V., Mechanical Engineering Department, Thapar University, Patiala, Punjab 147001, India; Manna, A., Mechanical Engineering Department, PEC University of Technology, Chandigarh, 160012, India	Indian Journal of Engineering and Materials Sciences	2020	9714588
2819	An Integrated Converter with Reduced Components for Electric Vehicles Utilizing Solar and Grid Power Sources	Singh A.K., Mishra A.K., Gupta K.K., Bhatnagar P., Kim T.	Singh, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, A.K., Department of Electrical and Computer Engineering, University of Michigan at Dearborn, Dearborn, MI, United States; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhatnagar, P., IES College of Technology, Bhopal, India; Kim, T., IES College of Technology, Bhopal, India	IEEE Transactions on Transportation Electrification	2020	23327782
2820	Organogenetic potential of callus derived from the young shoots of Bambusa bambos (L.) Voss- an economically important edible bamboo	Manju A., Jasmine B., Anil S.	Manju, A., Amity Institute of Biotechnology, Amity University, Haryana, India; Jasmine, B., Department of Biotechnology, Thapar University, Patiala (Pb., India); Anil, S., CSIR- Institute of Himalayan Bioresource Technology, Palampur (HP), India	Research Journal of Biotechnology	2020	9736263
2821	Detecting different attack instances of ddos vulnerabilities on edge network of fog computing using gaussian naive bayesian classifier	Singh S., Kumari K., Gupta S., Dua A., Kumar N.	Singh, S., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Kumari, K., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Gupta, S., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Dua, A., Department of Computer Science and Information Systems, Birla Institute of Technology and Science, Pilani, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2822	On the Design of Blockchain-Based Access Control Protocol for IoT-Enabled Healthcare Applications	Saha S., Sutrala A.K., Das A.K., Kumar N., Rodrigues J.J.P.C.	Saha, S., International Institute of Information Technology, Center for Security Theory and Algorithmic Research, Hyderabad, 500 032, India; Sutrala, A.K., Ca Technologies - A Broadcom Company, Hyderabad, 500 032, India; Das, A.K., International Institute of Information Technology, Center for Security Theory and Algorithmic Research, Hyderabad, 500 032, India; Kumar, N., Thapar University, Department of Computer Science and Engineering, Patiala, 147 004, India; Rodrigues, J.J.P.C., Federal University of Piauí, Teresina - PI, Brazil	IEEE International Conference on Communications	2020	15503607
2823	CPNDD:Content Placement Approach in Content Centric Networking	Kumar S., Tiwari R., Obaidat M.S., Kumar N., Hsiao K.-F.	Kumar, S., University of Petroleum and Energy Studies, Department of Systemics School of Computer Science, India; Tiwari, R., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Obaidat, M.S., University of Science and Technology Beijing, Beijing, China; Kumar, N., Thapar University, Department of Computer Science, Patiala, India; Hsiao, K.-F., Ming Chuan University, Department of Information Management, Department of Computer Science, Taiwan	IEEE International Conference on Communications	2020	15503607
2824	The stability of hole-doped antiferromagnetic state in a two-orbital model	Singh D.K., Go A., Choi H.-Y., Bang Y.	Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Department of Physics, POSTECH, Pohang, 790-784, South Korea, Asia Pacific Center for Theoretical Physics, Pohang, Gyeongbuk, 790-784, South Korea; Go, A., Center for Theoretical Physics of Complex Systems, Institute for Basic Science (IBS), Daejeon, 34051, South Korea; Choi, H.-Y., Department of Physics and Institute for Basic Science Research, SungKyunKwan University, Suwon, 440-746, South Korea; Bang, Y., Department of Physics, POSTECH, Pohang, 790-784, South Korea, Asia Pacific Center for Theoretical Physics, Pohang, Gyeongbuk, 790-784, South Korea	New Journal of Physics	2020	13672630
2825	Guest Editorial: Neutrosophic decision making and applications in knowledge management	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed to Be University, Patiala, Punjab, 147004, India	CAAI Transactions on Intelligence Technology	2020	24686557
2826	IEC 61850-Based Communication Layer Modeling for Electric Vehicles: Electric Vehicle Charging and Discharging Processes Based on the International Electrotechnical Commission 61850 Standard and Its Extensions	Aftab M.A., Hussain S.M.S., Ali I., Ustun T.S.	Aftab, M.A., Thapar Institute of Engineering and Technology, New Delhi, Delhi, India; Hussain, S.M.S., Fukushima Renewable Energy Institute, National Institute of Advanced Industrial Science and Technology, Koriyama, Fukushima, Japan; Ali, I., Electrical Engineering, Jamia Millia Islamia, New Delhi, Delhi, India; Ustun, T.S., Fukushima Renewable Energy Institute, National Institute of Advanced Industrial Science and Technology, Koriyama, Fukushima, Japan	IEEE Industrial Electronics Magazine	2020	19324529
2827	Wavelet optimized upwind conservative method for traffic flow problems	Sharma D., Goyal K.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, India	International Journal of Modern Physics C	2020	1291831
2828	BloCkEd: Blockchain-based secure data processing framework in edge envisioned V2X environment	Auja G.S., Singh A., Singh M., Sharma S., Kumar N., Choo K.-K.R.	Auja, G.S., School of Computing, Newcastle University, Newcastle Upon Tyne, NE1 7RU, United Kingdom, Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, 140413, India; Singh, A., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, 140413, India; Singh, M., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, 140413, India; Sharma, S., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, 140413, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Transactions on Vehicular Technology	2020	189545
2829	Call for Special Issue Papers: Internet of Things Data Visualization for Business Intelligence	Kumar N.	Kumar, N., Thapar Institute of Engineering, Thapar University, India	Big data	2020	2167647X
2830	White-Box Implementation of Shamir's Identity-Based Signature Scheme	Feng Q., He D., Wang H., Kumar N., Choo K.-K.R.	Feng, Q., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; Wang, H., Jiangsu Key Laboratory of Big Data Security and Intelligent Processing, School of Computer Science, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147003, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Systems Journal	2020	19328184
2831	PFCBAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System	Verma G.K., Singh B.B., Kumar N., Kaiwartya O., Obaidat M.S.	Verma, G.K., Department of Mathematics, Hindustan College of Science and Technology, Mathura, 281122, India; Singh, B.B., Department of Computer Science, Govt. Kamlia Raja Girls (PG) College, Gwalior, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Kaiwartya, O., Nottingham Trent University, Nottingham, United Kingdom; Obaidat, M.S., ECE Department, Nazarbayev Univeristy, Astana, Kazakhstan	IEEE Systems Journal	2020	19328184

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2832	LoBA: A Leading One Bit Based Imprecise Multiplier for Efficient Image Processing	Garg B., Patel S.K., Dutt S.	Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Patel, S.K., Thapar Institute of Engineering and Technology, Patiala, India; Dutt, S., Indian Institute of Information Technology Vadodara, Vadodara, India	Journal of Electronic Testing: Theory and Applications (JETTA)	2020	9238174
2833	Network anomaly detection inside consumer networks—a hybrid approach	Patel D., Srinivasan K., Chang C.-Y., Gupta T., Kataria A.	Patel, D., School of Computing Science and Engineering, Vellore Institute of Technology, Vellore, 632014, India; Srinivasan, K., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, 632014, India; Chang, C.-Y., Department of Computer Science and Information Engineering, National Yunlin University of Science and Technology, Yunlin, 64002, Taiwan; Gupta, T., Information Security Engineering, Soonchunhyang University, Asan-si, 31538, South Korea; Kataria, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electronics (Switzerland)	2020	20799292
2834	Hydrodynamics and parametric study of an activated sludge process using residence time distribution technique	Sarkar M., Sangal V.K., Bhunia H.	Sarkar, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, 302017, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Engineering Research	2020	12261025
2835	Foam mat drying of papaya using microwaves: Machine learning modeling	Qadri O.S., Osama K., Srivastava A.K.	Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India, Department of Post-Harvest Engineering and Technology, Aligarh Muslim University, Aligarh, India; Osama, K., Department of Bioengineering, Integral University, Lucknow, India; Srivastava, A.K., Department of Post-Harvest Engineering and Technology, Aligarh Muslim University, Aligarh, India	Journal of Food Process Engineering	2020	1458876
2836	Analysis of genetic diversity in indian natural populations of drosophila ananassae	Singh P., Narula P., Azad S.	Singh, P., Department of Zoology, Mahatma Gandhi Central University, Motihari, Bihar, 845401, India; Narula, P., School of Mathematics, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India; Azad, S., School of Basic Sciences, Indian Institute of Technology (IIT), Mandi, Himachal Pradesh, 175001, India	Frontiers in Bioscience - Elite	2020	19450494
2837	A framework for three-dimensional finite element analysis of unidirectional and cross-ply composite layups through localized microstructures under hygromechanical conditions	Jain D., Vats S., Bera T.K., Mukherjee A.	Jain, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Vats, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mukherjee, A., Department of Civil Engineering, Curtin University, Bentley, WA 6102, Australia	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	16785878
2838	Analysis of susceptor temperature during microwave heating and characterization of Ni-30Cr3C2 clads	Bansal S., Gupta D., Jain V.	Bansal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2020	14644207
2839	EBreCaP: Extreme learning-based model for breast cancer survival prediction	Dhillon A., Singh A.	Dhillon, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India	IET Systems Biology	2020	17518849
2840	Effect of transition metals (MO-TiO ₂ , MnO ₂ , Fe ₂ O ₃ , and ZnO) on crystallization and electrical conductivity of SiO ₂ -CaO-Na ₂ O-P ₂ O ₅ -based glass-ceramics	Danewalia S.S., Khan S., Dhillon S., Bansal N., Sharma G., Singh K.	Danewalia, S.S., Division of Research and Development, Lovely Professional University, Phagwara, 144411, India; Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhillon, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bansal, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ionics	2020	9477047
2841	FPGA for 5G: Re-configurable hardware for next generation communication	Chamola V., Patra S., Kumar N., Guizani M.	Chamola, V., Birla Institute of Technology and Science;, Pilani, India; Patra, S., Birla Institute of Technology and Science;, Pilani, India; Kumar, N., Thapar Institute of Engineering and Technology, King Abdulaziz University, Asia University;, Jeddah, Saudi Arabia; Guizani, M., Qatar University;, Syracuse, NY, United States	IEEE Wireless Communications	2020	15361284

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2842	Dataset for the combined transcriptome assembly of M. oleifera and functional annotation	Shafi K.M., Joshi A.G., Meenakshi I., Pasha S.N., Harini K., Mahita J., Sajeevan R.S., Karpe S.D., Ghosh P., Nitish S., Gandhimathi A., Mathew O.K., Prasanna S.H., Malini M., Mutt E., Naika M., Ravooru N., Rao R.M., Shingate P.N., Sukhwai A., Sunitha M.S., Upadhyay A.K., Vinekar R.S., Sowdhamini R.	Shafi, K.M., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India, The University of Trans-Disciplinary Health Sciences & Technology (TDU), Yelahanka, Bangalore, Karnataka 560064, India; Joshi, A.G., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Meenakshi, I., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Pasha, S.N., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Harini, K., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Mahita, J., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Sajeevan, R.S., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Karpe, S.D., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Ghosh, P., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Nitish, S., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Gandhimathi, A., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; The University of Trans-Disciplinary Health Sciences & Technology (TDU), Yelahanka, Bangalore, Karnataka 560064, India; Mathew, O.K., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Prasanna, S.H., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Malini, M., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Mutt, E., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Naika, M., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Ravooru, N., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Rao, R.M., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Shingate, P.N., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Sunitha, M.S., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Upadhyay, A.K., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Vinekar, R.S., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India; Sowdhamini, R., National Centre for Biological Sciences (TIFR), GKVK Campus, Bangalore, Karnataka 560065, India	Data in Brief	2020	23523409
2843	Performance analysis of uncoded and SFBC OFDM system over composite fading channels	Shankar H., Kansal A.	Shankar, H., Thapar Institute of Engineering and Technology, Patiala(147004), Punjab, India; Kansal, A., Thapar Institute of Engineering and Technology, Patiala(147004), Punjab, India	Physical Communication	2020	18744907
2844	Multiple attribute decision making based on immediate probabilities aggregation operators for single-valued and interval neutrosophic sets	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Nancy, Department of Applied Sciences, Punjab Engineering College, Deemed University Chandigarh, Chandigarh, India	Journal of Applied Mathematics and Computing	2020	15985865
2845	Mathematical modeling and simulation for the flow of magneto-Powell-Eyring fluid in an annulus with concentric rotating cylinders	Kumar D., Ramesh K., Chandok S.	Kumar, D., Department of Mathematics, Lovely Professional University, Jalandhar, 144 411, India, Department of Mathematics, IKG Punjab Technical University, Kapurthala, 144 603, India; Ramesh, K., Department of Mathematics, Symbiosis Institute of Technology, Symbiosis International University, Pune, 412 115, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Chinese Journal of Physics	2020	5779073
2846	In vivo evaluation of machining forces, torque, and bone quality during skull bone grinding	Babbar A., Jain V., Gupta D.	Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2020	9544119
2847	Fuzzy multi-criteria decision making algorithm under intuitionistic hesitant fuzzy set with novel distance measure	Saikia R., Garg H., Dutta P.	Saikia, R., Department of Mathematics, Rajiv Gandhi Institute of Petroleum Technology, Sivasagar, 785697, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Dutta, P., Department of Mathematics Dibrugarh University, Dibrugarh, 786004, India	International Journal of Mathematical, Engineering and Management Sciences	2020	24557749
2848	Hybrid intrusion detection and signature generation using Deep Recurrent Neural Networks	Kaur S., Singh M.	Kaur, S., Computer Science and Engineering Department, Thapar University Patiala, Punjab, India; Singh, M., Computer Science and Engineering Department, Thapar University Patiala, Punjab, India	Neural Computing and Applications	2020	9410643
2849	Effect of Piedmont mutation (L34V) on the structure, dynamics, and aggregation of Alzheimer's A β 40 peptide	Saini R.K., Thakur H., Goyal B.	Saini, R.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Thakur, H., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Molecular Graphics and Modelling	2020	10933263

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2850	Development of nano-silver alkaline protease bio-conjugate depilating eco-benign formulation by utilizing potato peel based medium	Joshi N., Kocher G.S., Kalia A., Banga H.S.	Joshi, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kocher, G.S., Department of Microbiology, College of Basic Sciences and Humanities, Punjab Agricultural University, Ludhiana, Punjab 141001, India; Kalia, A., Electron Microscopy and Nanoscience Laboratory, Department of Soil Science, College of Agriculture, Punjab Agricultural University, Ludhiana, Punjab 141001, India; Banga, H.S., Department of Veterinary Pathology, College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana, Punjab 141 004, India	International Journal of Biological Macromolecules	2020	1418130
2851	A semi-homogenized extended isogeometric analysis approach for fracture in functionally graded materials containing discontinuities	Bhardwaj G., Godara R.K., Khanna K., Patil R.U.	Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India; Khanna, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India; Patil, R.U., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2020	9544062
2852	Investigations of the mechanical properties on different print orientations in SLA 3D printed resin	Saini J.S., Dowling L., Kennedy J., Trimble D.	Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dowling, L., Department of Mechanical and Manufacturing Engineering, Trinity College, Dublin-2, Ireland; Kennedy, J., Department of Mechanical and Manufacturing Engineering, Trinity College, Dublin-2, Ireland; Trimble, D., Department of Mechanical and Manufacturing Engineering, Trinity College, Dublin-2, Ireland	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2020	9544062
2853	Analysis of laminated piezoelectric composite plates using an inverse hyperbolic coupled plate theory	Josha Y.S., Santapuri S., Grover N.	Josha, Y.S., Department of Applied Mechanics, Indian Institute of Technology Delhi Hauz Khas, New Delhi, 110016, India; Santapuri, S., Department of Applied Mechanics, Indian Institute of Technology Delhi Hauz Khas, New Delhi, 110016, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Mathematical Modelling	2020	0307904X
2854	Dark Web: A Web of Crimes	Kaur S., Randhawa S.	Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Randhawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2020	9296212
2855	Deep Convolutional Neural Network for Graphics Forgery Detection in Video	Kaur H., Jindal N.	Kaur, H., ECE, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., ECE, Faculty, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2020	9296212
2856	Correction to: Effect of varying biogas mass flow rate on performance and emission characteristics of a diesel engine fuelled with blends of n-butanol and diesel (Journal of Thermal Analysis and Calorimetry, (2020), 140, 6, (2817-2830), 10.1007/s10973-019-09055-1)	Goga G., Chauhan B.S., Mahla S.K., Dhir A., Cho H.M.	Goga, G., School of Mechanical Engineering, Lovely Professional University, Phagwara, Punjab, India; Chauhan, B.S., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, Uttar Pradesh, India; Mahla, S.K., Department of Mechanical Engineering, IKG Punjab Technical University, Kapurthala, Punjab, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Cho, H.M., Department of Mechanical Engineering, Kongju National University, Cheonan, South Korea	Journal of Thermal Analysis and Calorimetry	2020	13886150
2857	Deep learning-based sign language recognition system for static signs	Wadhawan A., Kumar P.	Wadhawan, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Neural Computing and Applications	2020	9410643
2858	A novel strategy for indirect control of peak dc-link voltage of grid-connected qZS inverter fed through renewable energy sources	Singh N., Jain S.K.	Singh, N., Thapar Institute of Engineering and Technology, Patiala, India, Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2020	9487921
2859	Drug sensitivity prediction framework using ensemble and multi-task learning	Sharma A., Rani R.	Sharma, A., CSED, T.I.E.T, Patiala, India; Rani, R., CSED, T.I.E.T, Patiala, India	International Journal of Machine Learning and Cybernetics	2020	18688071
2860	Agile maintenance attribute coding and evaluation based decision making in sugar manufacturing plant	Srivastava P., Khanduja D., Agrawal V.P.	Srivastava, P., Amity University, Noida, Uttar Pradesh 201301, India; Khanduja, D., Department of Mechanical Engineering, National Institute of Technology, Kurukshetra, Haryana 136119, India; Agrawal, V.P., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147001, India	OPSEARCH	2020	303887
2861	Effect of varying biogas mass flow rate on performance and emission characteristics of a diesel engine fuelled with blends of n-butanol and diesel	Goga G., Chauhan B.S., Mahla S.K., Dhir A., Cho H.M.	Goga, G., School of Mechanical Engineering, Lovely Professional University, Phagwara, Punjab, India; Chauhan, B.S., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, Uttar Pradesh, India; Mahla, S.K., Department of Mechanical Engineering, IKG Punjab Technical University, Kapurthala, Punjab, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Cho, H.M., Department of Mechanical Engineering, Kongju National University, Cheonan, South Korea	Journal of Thermal Analysis and Calorimetry	2020	13886150
2862	Automating fake news detection system using multi-level voting model	Kaur S., Kumar P., Kumaraguru P.	Kaur, S., Doctoral Research Lab-II, Computer Science and Engineering Department, TIET, Patiala, India; Kumar, P., Computer Science and Engineering Department, TIET, Patiala, India; Kumaraguru, P., Computer Science and Engineering Department, IIIT, Delhi, India	Soft Computing	2020	14327643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2863	Novel aggregation operators and ranking method for complex intuitionistic fuzzy sets and their applications to decision-making process	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Artificial Intelligence Review	2020	2692821
2864	On Relation Between Linear Temporal Logic and Quantum Finite Automata	Bhatia A.S., Kumar A.	Bhatia, A.S., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Logic, Language and Information	2020	9258531
2865	A note on solving multi-objective integer indefinite quadratic fractional programs	Kushwah P., Sharma V.	Kushwah, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Annals of Operations Research	2020	2545330
2866	An Analysis of Hierarchical Software-Defined Network Control Plane: A Reliability Approach	Gaur P., Tandon A., Goyal N., Chandwani G., Ram M.	Gaur, P., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, Uttarakhand, 248002, India; Tandon, A., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, Uttarakhand, 248002, India; Goyal, N., Department of Mathematics, Roorkee Institute of Technology, Roorkee, Uttarakhand, India; Chandwani, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ram, M., Department of Mathematics, Computer Science and Engineering, Graphic Era Deemed to Be University Dehradun, Uttarakhand, 248002, India	International Journal of Reliability, Quality and Safety Engineering	2020	2185393
2867	A survey: ICT enabled energy efficiency techniques for big data applications	Arora S., Bala A.	Arora, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bala, A., Department of Computer Science and Engineering, Thapar University, Patiala, India	Cluster Computing	2020	13867857
2868	An energy-efficient stable clustering approach using fuzzy-enhanced flower pollination algorithm for WSNs	Mittal N., Singh U., Salgotra R., Bansal M.	Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
2869	Dry reforming of methane using various catalysts in the process: review	Singh R., Dhir A., Mohapatra S.K., Mahla S.K.	Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India	Biomass Conversion and Biorefinery	2020	21906815
2870	SP-J48: a novel optimization and machine-learning-based approach for solving complex problems: special application in software engineering for detecting code smells	Kaur A., Jain S., Goel S.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Goel, S., Department of Computer Science and Engineering, Bennett University, G. Noida, Uttar Pradesh 201310, India	Neural Computing and Applications	2020	9410643
2871	Cyber forensics framework for big data analytics in IoT environment using machine learning	Chhabra G.S., Singh V.P., Singh M.	Chhabra, G.S., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Singh, V.P., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India; Singh, M., Computer Science and Engineering Department, Thapar University, Patiala, 147004, India	Multimedia Tools and Applications	2020	13807501
2872	A graph-based model to improve social trust and influence for social recommendation	Bathla G., Aggarwal H., Rani R.	Bathla, G., Department of Computer Engineering, Punjabi University, Patiala, India; Aggarwal, H., Department of Computer Engineering, Punjabi University, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar University, Patiala, India	Journal of Supercomputing	2020	9208542
2873	Guest editorial: Deep learning for 3D reconstruction	Lv Z., Wang X., Khan S., Kumar N.	Lv, Z., Qingdao University, China; Wang, X., Department of Computer Science, St. Francis Xavier University, Canada; Khan, S., City University of Hong Kong, Hong Kong; Kumar, N., Thapar Institute of Engineering and Technology (TIET), India	IET Image Processing	2020	17519659
2874	Electro-optical, dielectric and optical properties of graphene oxide dispersed nematic liquid crystal composites	Yadav S., Malik P., Khushboo, Jayoti D.	Yadav, S., Liquid Crystal Lab, Department of Physics, Dr B R Ambedkar National Institute of Technology, Jalandhar, India; Malik, P., Liquid Crystal Lab, Department of Physics, Dr B R Ambedkar National Institute of Technology, Jalandhar, India; Khushboo, Material Research Laboratory, School of Physics and Material Science, Thapar University, Patiala, India; Jayoti, D., Liquid Crystal Lab, Department of Physics, Dr B R Ambedkar National Institute of Technology, Jalandhar, India	Liquid Crystals	2020	2678292

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2875	Improved electromagnetic shielding behaviour of graphene encapsulated polypyrrole-graphene nanocomposite in X-band	Gill N., Gupta V., Tomar M., Sharma A.L., Pandey O.P., Singh D.P.	Gill, N., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, V., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Tomar, M., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Sharma, A.L., CSIR - Central Scientific Instrument Organisation (CSIR-CSIO), Chandigarh, 160030, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, D.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Composites Science and Technology	2020	2663538
2876	A review on solar forecasting and power management approaches for energy-harvesting wireless sensor networks	Sharma A., Kakkar A.	Sharma, A., Electronics and communication engineering, Chandigarh University, Mohali, India; Kakkar, A., Electronics and communication engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Communication Systems	2020	10745351
2877	An efficient enantioselective approach to multifunctionalized Γ -butyrolactone: Concise synthesis of (+)-nephrosteranic acid	Gehlawat A., Prakash R., Pandey S.K.	Gehlawat, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Pandey, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, 221 005, India	RSC Advances	2020	20462069
2878	Mandatory CSR expenditure and firm performance: Evidence from India	Garg A., Gupta P.K.	Garg, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, P.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	South Asian Journal of Business Studies	2020	2398628X
2879	A "turn-on" fluorescent and colorimetric chemodosimeter for selective detection of Au ³⁺ ions in solution and in live cells: Via Au ³⁺ -induced hydrolysis of a rhodamine-derived Schiff base	Mondal S., Manna S.K., Pathak S., Ghosh A., Datta P., Mandal D., Mukhopadhyay S.	Mondal, S., Department of Chemistry, Jadavpur University, Kolkata, 700032, India; Manna, S.K., Department of Chemistry, Haldia Government College Debhog, Purba Medinipur West Bengal, 721657, India; Pathak, S., Department of Chemistry, Haldia Government College Debhog, Purba Medinipur West Bengal, 721657, India; Ghosh, A., Centre for Healthcare Science, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Datta, P., Centre for Healthcare Science, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Mukhopadhyay, S., Department of Chemistry, Jadavpur University, Kolkata, 700032, India	New Journal of Chemistry	2020	11440546
2880	Microbial clot busters: An overview of source, production, properties and fibrinolytic activity	Gupta M., Saxena S., Meshram V.	Gupta, M., Department of Biotechnology, School of Biotechnology and Biosciences, Lovely Professional University, Phagwara, Punjab, India, Department of Biotechnology, Maharishi Markandeshwar University, Mullana, Haryana, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Meshram, V., Department of Plant Pathology and Weed Research, Agricultural Research Organization, The Volcani Centre, Rishon Lezion, Israel	Bioactive Natural Products in Drug Discovery	2020	
2881	Modelling solids friction for fluidized dense-phase pneumatic conveying	Sharma K., Mallick S.S., Mittal A., Wypych P.	Sharma, K., Department of Mechanical Engineering, Laboratory for Particle and Bulk Solids Technologies, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mallick, S.S., Department of Mechanical Engineering, Laboratory for Particle and Bulk Solids Technologies, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mittal, A., Department of Mechanical Engineering, Laboratory for Particle and Bulk Solids Technologies, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Wypych, P., Faculty of Engineering and Information Sciences, University of Wollongong, Wollongong, NSW, Australia	Particulate Science and Technology	2020	2726351
2882	Utilization of drinking water treatment sludge in concrete paving blocks: Microstructural analysis, durability and leaching properties	Liu Y., Zhuge Y., Chow C.W.K., Keegan A., Li D., Pham P.N., Huang J., Siddique R.	Liu, Y., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia; Zhuge, Y., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia; Chow, C.W.K., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia, Future Industries Institute, University of South Australia, Adelaide, Australia; Keegan, A., Australian Water Quality Centre, South Australian Water Corporation, Adelaide, Australia; Li, D., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia; Pham, P.N., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia, Faculty of Bridge and Road Engineering, The University of Danang – University of Science and Technology, 54 Nguyen Luong Bang, Danang, Viet Nam; Huang, J., Natural and Built Environments Research Centre, School of Natural and Built Environment, University of South Australia, Adelaide, Australia, Future Industries Institute, University of South Australia, Adelaide, Australia; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Environmental Management	2020	3014797

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2883	Once through continuous flow removal of metronidazole by dual effect of photo-Fenton and photocatalysis in a compound parabolic concentrator at pilot plant scale	Talwar S., Verma A.K., Sangal V.K., Stangar U.L.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Stangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia	Chemical Engineering Journal	2020	13858947
2884	Design of robust H ∞ technique using linear matrix inequalities for load frequency control	Kaur R., Jain S.K.	Kaur, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Physics: Conference Series	2020	17426588
2885	Power allocation for downlink multiuser hybrid NOMA-OMA systems: An auction game approach	Lamba A.K., Kumar R., Sharma S.	Lamba, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Communication Systems	2020	10745351
2886	Thermal dehydration kinetics involved during the conversion of gadolinium hydroxide to gadolinium oxide	Kaur G., Sharma P., Priya R., Pandey O.P.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Priya, R., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India	Journal of Alloys and Compounds	2020	9258388
2887	Surface roughness evaluation for electrical discharge machining using powder metallurgy tool	Shard A., Deepshikha, Gupta V., Garg M.P.	Shard, A., Department of Mechanical Engineering, DAV University, Punjab, Jalandhar, 144001, India; Deepshikha, Hans Raj Mahila Vidyalaya, Punjab, Jalandhar, 144008, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Punjab, Jalandhar, 144001, India	AIP Conference Proceedings	2020	0094243X
2888	Effect of gate oxide thickness on the performance of rectangular core-shell based junctionless field effect transistor	Narula V., Agarwal M.	Narula, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agarwal, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	AIP Conference Proceedings	2020	0094243X
2889	Material removal rate during powder metallurgy Cu-Ti electrodes in electrical discharge machining of EN9 steel	Shard A., Deepshikha, Gupta V., Garg M.P.	Shard, A., Department of Mechanical Engineering, DAV University, Punjab, Jalandhar, 144001, India; Deepshikha, Hans Raj Mahila Vidyalaya, Punjab, Jalandhar, 144008, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Punjab, Jalandhar, 144001, India	AIP Conference Proceedings	2020	0094243X
2890	Numerical analysis of lead-free methyl ammonium tin halide perovskite solar cell	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	AIP Conference Proceedings	2020	0094243X
2891	Evolution of symmetric decay in A = 60 compound nuclei	Kaur M., Kaur S., Singh B.B., Sharma M.K.	Kaur, M., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Kaur, S.; Singh, B.B., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Sharma, M.K., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2020	0094243X
2892	Enhanced magnetization in Dy-doped Bismuth ferrite nanoparticles	Dhir G., Verma N.K.	Dhir, G., Department of Science, Public College, Samana, 147102, India; Verma, N.K., Nano Research Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	AIP Conference Proceedings	2020	0094243X
2893	Decision support algorithm for selecting an antivirus mask over COVID-19 pandemic under spherical normal fuzzy environment	Yang Z., Li X., Garg H., Qi M.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Li, X., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Pin 147004, India; Qi, M., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China	International Journal of Environmental Research and Public Health	2020	16617827
2894	Fake News Detection Using a Blend of Neural Networks: An Application of Deep Learning	Agarwal A., Mittal M., Pathak A., Goyal L.M.	Agarwal, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mittal, M., Department of CSE, G. B. Pant Government Engineering College, New Delhi, India; Pathak, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, L.M., Department of CE, J. C. Bose University of Science and Technology, YMCA, Faridabad, India	SN Computer Science	2020	2662995X
2895	A Wireless Sensorized Insole Design for Spatio-Temporal Gait Analysis	Agarwal R., Aggarwal A., Gupta R.	Agarwal, R., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Aggarwal, A., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Gupta, R., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India	Neurophysiology	2020	902977
2896	Deepfakes: Temporal sequential analysis to detect face-swapped video clips using convolutional long short-term memory	Kaur S., Kumar P., Kumaraguru P.	Kaur, S., Thapar Institute of Engineering and Technology, Doctoral Research Lab-II, Department of Computer Science and Engineering, Patiala, Punjab, India; Kumar, P., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, Punjab, India; Kumaraguru, P., Indraprastha Institute of Information Technology, Department of Computer Science and Engineering, New Delhi, Delhi, India	Journal of Electronic Imaging	2020	10179909

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2897	Multiscale and morphological analysis of microvascular patterns depicted in contrast-enhanced ultrasound images	Oezdemir I., Peng J., Ghosh D., Sirsi S., Sirsi S., Mineo C., Shaul P.W., Hoyt K.	Oezdemir, I., University of Texas at Dallas, Department of Bioengineering, Richardson, TX, United States; Peng, J., University of Texas Southwestern Medical Center, Department of Pediatrics, Dallas, TX, United States; Ghosh, D., University of Texas at Dallas, Department of Bioengineering, Richardson, TX, United States; Sirsi, S., University of Texas at Dallas, Department of Bioengineering, Richardson, TX, United States; Sirsi, S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, Punjab, India; Mineo, C., University of Texas Southwestern Medical Center, Department of Pediatrics, Dallas, TX, United States; Shaul, P.W., University of Texas Southwestern Medical Center, Department of Pediatrics, Dallas, TX, United States; Hoyt, K., University of Texas at Dallas, Department of Bioengineering, Richardson, TX, United States	Journal of Medical Imaging	2020	23294302
2898	Modified King's family for multiple zeros of scalar nonlinear functions	Behl R., Kansal M., Salimi M.	Behl, R., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Salimi, M., DiGIES and Decisions Lab, University Mediterranea of Reggio Calabria, Reggio Calabria, 89125, Italy	Mathematics	2020	22277390
2899	DeepBus: Machine learning based real time pothole detection system for smart transportation using IoT	Bansal K., Mittal K., Ahuja G., Singh A., Gill S.S.	Bansal, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mittal, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Ahuja, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gill, S.S., School of Electronic Engineering and Computer Science, Queen Mary University of London, London, United Kingdom	Internet Technology Letters	2020	24761508
2900	On the Coincidence of the Central and Absolute Central Automorphism Groups of Finite p-Groups	Singh M., Gumber D.	Singh, M., Department of Mathematics, Arya College, Ludhiana, 141001, India; Gumber, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mathematical Notes	2020	14346
2901	An improved artificial electric field algorithm for multi-objective optimization	Petwal H., Rani R.	Petwal, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Processes	2020	22279717
2902	Optimum orientations for octupole deformed nuclei in fusion configurations	Jain S., Sharma M.K., Kumar R.	Jain, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physical Review C	2020	24699985
2903	Effect of hydrogen-enriched biogas induction on combustion, performance, and emission characteristics of dual-fuel compression ignition engine	Rosha P., Ibrahim H., Nanda A.K., Mohapatra S.K., Mahla S.K., Dhir A.	Rosha, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Ibrahim, H., Clean Energy Technologies Research Institute, Process Systems Engineering, Faculty of Engineering and Applied Science, University of Regina, Regina, SK, Canada; Nanda, A.K., Department of Civil Engineering, RIMT University, Mandi Gobindgarh, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Asia-Pacific Journal of Chemical Engineering	2020	19322135
2904	Hybrid frameworks for flexible job shop scheduling	Bharti P., Jain S.	Bharti, P., CSED, Thapar University, Patiala, India; Jain, S., CSED, Thapar University, Patiala, India	International Journal of Advanced Manufacturing Technology	2020	2683768
2905	On the Design of Conditional Privacy Preserving Batch Verification-Based Authentication Scheme for Internet of Vehicles Deployment	Sutrala A.K., Bagga P., Das A.K., Kumar N., Rodrigues J.J.P.C., Lorenz P.	Sutrala, A.K., CA Technologies-A Broadcom Company, Hyderabad, 500 032, India; Bagga, P., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Rodrigues, J.J.P.C., Federal University of Piauí (UFPI), Teresina-Pi, 64049-550, Brazil; Instituto de Telecomunicações, Lisbon, 1049-001, Portugal; Lorenz, P., University of Haute Alsace, Grilloenbreit, 68000, France	IEEE Transactions on Vehicular Technology	2020	189545
2906	Prioritization of Soil Erosion Vulnerable Areas of Upper Patiala-Ki-Rao Catchment Located on Shivalik Hills	Walia S., Singh S., Babbar R., Loshali D.C.	Walia, S., Department of Civil Engineering, Thapar University, Patiala, 147 004, India; Singh, S., Department of Civil Engineering, Thapar University, Patiala, 147 004, India; Babbar, R., Department of Civil Engineering, Thapar University, Patiala, 147 004, India; Loshali, D.C., Forestry and Land Use Division, Punjab Remote Sensing Centre, Punjab Agriculture University, Ludhiana, 141 001, India	Journal of the Geological Society of India	2020	167622
2907	Creep response of rotating composite discs having exponential, hyperbolic, linear and constant thickness profiles	Singh R., Saxena R.K., Khanna K., Gupta V.K.	Singh, R., Department of Mechanical Engineering, Punjabi University, Patiala, 147 002, India; Saxena, R.K., Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, 148 106, India; Khanna, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Gupta, V.K., Department of Mechanical Engineering, Punjabi University, Patiala, 147 002, India	Defence Science Journal	2020	0011748X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2908	Experimental analysis and characterization of SiC and RE oxides reinforced Al-6063 alloy based hybrid composites	Sharma V.K., Kumar V., Joshi R.S., Sharma D.	Sharma, V.K., Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India, Meerut Institute of Engineering & Technology, Meerut, India; Kumar, V., Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India; Joshi, R.S., Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India; Sharma, D., Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India	International Journal of Advanced Manufacturing Technology	2020	2683768
2909	Role of wide particle size distribution on magnetization	Kaur N., Tiwari S.D.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Physics A: Materials Science and Processing	2020	9478396
2910	Natural convection in a partially heated porous cavity to Casson fluid	Aneja M., Chandra A., Sharma S.	Aneja, M., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	International Communications in Heat and Mass Transfer	2020	7351933
2911	Rhodamine-anthraquinone based dyad for rapid and selective sensing of Al ³⁺ with potential application for real-time sampling and molecular logic circuits	Mehta R., Luxami V.	Mehta, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Inorganic Chemistry Communications	2020	13877003
2912	A review on XIGA method for computational fracture mechanics applications	Yadav A., Godara R.K., Bhardwaj G.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Engineering Fracture Mechanics	2020	137944
2913	Guest Editorial: Energy Management, Protocols, and Security for the Next-Generation Networks and Internet of Things	Singh S., Sheng Q.Z., Benkhelifa E., Lloret J.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sheng, Q.Z., Department of Computing, Macquarie University, Sydney, NSW 2109, Australia; Benkhelifa, E., School of Computing and Digital Technology, Staffordshire University, Stoke-on-Trent, ST4 2DE, United Kingdom; Lloret, J., Department of Communications, Polytechnic University of Valencia, Valencia, 46022, Spain	IEEE Transactions on Industrial Informatics	2020	15513203
2914	Synthesis and characterization of 50BaO - (5-x) Al ₂ O ₃ - xR ₂ O ₃ - 30B ₂ O ₃ - 15SiO ₂ (R = Nd, Gd) glass-ceramics	Salinigopal M.S., Gopakumar N., Anjana P.S., Pandey O.P.	Salinigopal, M.S., Department of Physics, All Saints' College, University of Kerala, Trivandrum, Kerala 695007, India, Post Graduate Department of Physics, Mahatma Gandhi College, Research Centre, University of Kerala, Trivandrum, 695004, India; Gopakumar, N., Post Graduate Department of Physics, Mahatma Gandhi College, Research Centre, University of Kerala, Trivandrum, 695004, India; Anjana, P.S., Department of Physics, All Saints' College, University of Kerala, Trivandrum, Kerala 695007, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Non-Crystalline Solids	2020	223093
2915	A Heuristic-Based Appliance Scheduling Scheme for Smart Homes	Jindal A., Bhambhu B.S., Singh M., Kumar N., Naik K.	Jindal, A., School of Computing and Communications, Lancaster University, Lancaster, LA1 4WA, United Kingdom; Bhambhu, B.S., Delta Electronics India Private Limited, Gurugram, 122001, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Naik, K., Department of Electrical and Computer Engineering, University of Waterloo, Waterloo, ON N2L 3G1, Canada	IEEE Transactions on Industrial Informatics	2020	15513203
2916	Dielectric and optical properties of glasses and glass-ceramics synthesized from agro-food wastes	Sharma G., Singh K.	Sharma, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Chemistry and Physics	2020	2540584
2917	The mean operators and generalized products of fuzzy soft matrices and their applications in MCGDM	Petchimuthu S., Garg H., Kamacı H., Atagün A.O.	Petchimuthu, S., Department of Mathematics, University College of Engineering, Nagercoil, Tamilnadu 629004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Kamacı, H., Department of Mathematics, Faculty of Science and Arts, Yozgat Bozok University, Yozgat, 66100, Turkey; Atagün, A.O., Department of Mathematics, Faculty of Science and Arts, Ahi Evran University, Kırşehir, 40100, Turkey	Computational and Applied Mathematics	2020	22383603
2918	A New SVPWM Technique to Reduce the Inductor Current Ripple of Three-Phase Z-Source Inverter	Singh S., Sonar S.	Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Industrial Electronics	2020	2780046
2919	GTM-CSec: Game theoretic model for cloud security based on IDS and honeypot	Gill K.S., Saxena S., Sharma A.	Gill, K.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, A., Department of Computational Sciences, MRSPTU, Bathinda, India	Computers and Security	2020	1674048

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2920	Analysis of the barrier characteristics and related fusion properties using 2pF, 3pF and 3pG density functions	Jain S., Sharma M.K., Kumar R.	Jain, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2020	3759474
2921	Design and analysis of a compact ultrathin polarization- and incident angle-independent triple band metamaterial absorber	Kaur M., Singh H.S.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Microwave and Optical Technology Letters	2020	8952477
2922	Biomass as a sustainable resource for value-added modern materials: a review	Sharma G., Kaur M., Punj S., Singh K.	Sharma, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Biofuels, Bioproducts and Biorefining	2020	1932104X
2923	Environmental impact assessment of fly ash and silica fume based geopolymer concrete	Bajpai R., Choudhary K., Srivastava A., Sangwan K.S., Singh M.	Bajpai, R., Department of Civil Engineering, BITS Pilani, Pilani Campus333031, India; Choudhary, K., Department of Mechanical Engineering, Mody University of Science & Technology, Lakshmarangh, 332311, India; Srivastava, A., Department of Civil Engineering, BITS Pilani, Pilani Campus333031, India; Sangwan, K.S., Department of Mechanical Engineering, BITS Pilani, Pilani Campus333031, India; Singh, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology147004, India	Journal of Cleaner Production	2020	9596526
2924	An efficient smart parking pricing system for smart city environment: A machine-learning based approach	Saharan S., Kumar N., Bawa S.	Saharan, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taiwan; Bawa, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Future Generation Computer Systems	2020	0167739X
2925	An improved block based copy-move forgery detection technique	Priyanka, Singh G., Singh K.	Priyanka, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2020	13807501
2926	Image and Video Forensics: A Critical Survey	Kaur H., Jindal N.	Kaur, H., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2020	9296212
2927	Machine learning based crop water demand forecasting using minimum climatological data	Sidhu R.K., Kumar R., Rana P.S.	Sidhu, R.K., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2020	13807501
2928	Room temperature processed in-situ carbon-coated vanadium carbide (VC@C) as a high capacity robust Li/Na battery anode material	Mahajan M., Roy K., Parmar S., Singla G., Pandey O.P., Singh K., Vaidhyanathan R., Ogale S.	Mahajan, M., Department of Physics and Centre for Energy Science, Indian Institute of Science Education and Research Pune, Pune, 411008, India; Roy, K., Department of Chemistry and Centre for Energy Science, Indian Institute of Science Education and Research Pune, Pune, 411008, India; Parmar, S., Department of Physics and Centre for Energy Science, Indian Institute of Science Education and Research Pune, Pune, 411008, India, Department of Technology, Savitribai Phule Pune University, Pune, 411008, India; Singla, G., CSIR-National Chemical Laboratory, Pune, 411008, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, 147001, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, 147001, India; Vaidhyanathan, R., Department of Chemistry and Centre for Energy Science, Indian Institute of Science Education and Research Pune, Pune, 411008, India; Ogale, S., Department of Physics and Centre for Energy Science, Indian Institute of Science Education and Research Pune, Pune, 411008, India	Carbon	2020	86223
2929	An Expert Approach for Data Flow Prediction: Case Study of Wireless Sensor Networks	Sandhu J.K., Verma A.K., Rana P.S.	Sandhu, J.K., Research Scholar, Thapar Institute of Engineering and Technology, Patiala, India, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Verma, A.K., Computer Science and Engineering Department, Thapar University, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar University, Patiala, India	Wireless Personal Communications	2020	9296212
2930	An efficient and provable certificate-based proxy signature scheme for IIoT environment	Verma G.K., Singh B.B., Kumar N., Obaidat M.S., He D., Singh H.	Verma, G.K., Amity School of Engineering & Technology, Amity University Madhya Pradesh, Gwalior, India; Singh, B.B., Government K. R. G. (P.G.) College, Gwalior, India; Kumar, N., Thapar University, Patiala, India; Obaidat, M.S., Fordham University, United States, ECE Department, Nazarbayev University, Astana, Kazakhstan, KASIT, University of Jordan, Jordan; He, D., Wuhan University, Wuhan, China; Singh, H., Hindustan College of Science and Technology, Farah, Mathura, India	Information Sciences	2020	200255
2931	Improved color attenuation prior based image de-fogging technique	Kansal I., Kasana S.S.	Kansal, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Multimedia Tools and Applications	2020	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2932	Influence of the size of gold nanoparticles dispersed in glass matrix on optical properties	Singla S., Achanta V.G., Pandey O.P., Sharma G.	Singla, S., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India; Achanta, V.G., DCMP&MS, Tata Institute of Fundamental Research, Mumbai, 400005, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, G., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab 144004, India	Ceramics International	2020	2728842
2933	Dy3+ and inherent Ti4+ activated Ca2SiO4 near white light emitting phosphors synthesized from agro-food waste ashes	Chhina M.K., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ceramics International	2020	2728842
2934	Lubrication characteristics and wear mechanism mapping for hybrid aluminium metal matrix composite sliding under surfactant functionalized MWCNT-oil	Singh H., Bhowmick H.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Bhowmick, H., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Tribology International	2020	0301679X
2935	Generalized Geometric Aggregation Operators Based on T-Norm Operations for Complex Intuitionistic Fuzzy Sets and Their Application to Decision-making	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering Technology (Deemed University), Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering Technology (Deemed University), Patiala, Punjab 147004, India	Cognitive Computation	2020	18669956
2936	Uncertainty propagation using Wiener-Linear B-spline wavelet expansion	Kaur N., Goyal K.	Kaur, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Computers and Mathematics with Applications	2020	8981221
2937	Multiattribute group decision making based on neutrality aggregation operators of q-rung orthopair fuzzy sets	Garg H., Chen S.-M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Chen, S.-M., Department of Computer Science and Information Engineering, National Taiwan University of Science and Technology Taipei, Taiwan	Information Sciences	2020	200255
2938	Design and exploration of load balancers for fog computing using fuzzy logic	Singh S.P., Sharma A., Kumar R.	Singh, S.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala	Simulation Modelling Practice and Theory	2020	1569190X
2939	Two-channel totally asymmetric simple exclusion process with site-wise dynamic disorder	Garg S., Dhiman I.	Garg, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Dhiman, I., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Physica A: Statistical Mechanics and its Applications	2020	3784371
2940	Algorithm for solving group decision-making problems based on the similarity measures under type 2 intuitionistic fuzzy sets environment	Garg H., Singh S.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Singh, S., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Soft Computing	2020	14327643
2941	A review on control-relevant glucose-insulin dynamics models and regulation strategies	Bhonsle S., Saxena S.	Bhonsle, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Saxena, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India, School of Electrical Engineering, Tel Aviv University, Tel Aviv, Israel	Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering	2020	9596518
2942	Non-differentiable Vector Programming Problem and Duality for Higher-Order Cone Convex Functions	Kaur A., Sharma M.K.	Kaur, A., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, M.K., Thapar Institute of Engineering and Technology, Patiala, India	Bulletin of the Malaysian Mathematical Sciences Society	2020	1266705
2943	Performances study of compact printed diversity antenna in the presence of user's body for LTE mobile phone applications	Singh H.S., Upadhyay R., Shubair R.M.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Shubair, R.M., Research Laboratory of Electronics, Massachusetts Institute of Technology (MIT), Cambridge, MA, United States	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2944	Real-time implementation of active shunt compensator with adaptive SRLMMN control technique for power quality improvement in the distribution system	Badoni M., Singh A., Singh B., Saxena H.	Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Electrical Engineering, Delhi Technological University, Delhi, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology, Delhi, India; Saxena, H., Department of Electrical Engineering, Delhi Technological University, Delhi, India	IET Generation, Transmission and Distribution	2020	17518687
2945	Occupational safety evaluation index-based obstacles prediction for manufacturing industries	Singh S., Kaur M., Bahl A., Uppal R.S.	Singh, S., Department of Mechanical Engineering, Lovely Professional University Jalandhar, Punjab, India; Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bahl, A., Department of Mechanical Engineering, Lovely Professional University Jalandhar, Punjab, India; Uppal, R.S., Electronics and Communication Engineering Department, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, India	Modern Physics Letters B	2020	2179849
2946	Fragmentation analysis of $10.5 \text{ Ag} \alpha$ - Nucleus governed via complete and incomplete fusion channels at $e.c.m. = 8.9 \text{ MeV}$	Sharma I., Sharma M.K.	Sharma, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Modern Physics Letters A	2020	2177323
2947	Apparent resistance to fall in forced vital capacity in children with increasing mass level of fine particulate: A physiological phenomenon	Mittal S.K., Gupta S., Agarwal R.	Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, S., Department of Robotics and Control Engineering, School of Electronics and Electrical Engineering, Lovely Professional University, Jalandhar, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Human and Ecological Risk Assessment	2020	10807039
2948	Developing inclusive and quality learning environments in HEIs	Gill S., Singh G.	Gill, S., LM Thapar School of Management, Thapar University, Dera Bassi, India; Singh, G., LM Thapar School of Management, Thapar University, Dera Bassi, India	International Journal of Educational Management	2020	0951354X
2949	Doping-induced disorder and conductivity anisotropy in the spin density wave state of iron pnictides	Singh D.K., Bang Y.	Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Department of Physics, POSTECH, Pohang, Gyeongbuk, 790-784, South Korea, Asia Pacific Center for Theoretical Physics, Pohang, Gyeongbuk, 790-784, South Korea; Bang, Y., Department of Physics, POSTECH, Pohang, Gyeongbuk, 790-784, South Korea, Asia Pacific Center for Theoretical Physics, Pohang, Gyeongbuk, 790-784, South Korea	Physical Review B	2020	24699950
2950	Ultra-thin metamaterial perfect absorbers for single-/dual-/multi-band microwave applications	Jain P., Singh A.K., Pandey J.K., Garg S., Bansal S., Agarwal M., Kumar S., Sardana N., Gupta N., Singh A.K.	Jain, P., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Singh, A.K., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Pandey, J.K., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Garg, S., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Bansal, S., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Applied Sciences, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Sardana, N., Department of Metallurgical and Materials Engineering, IIT Ropar, Rupnagar, Punjab, India; Gupta, N., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India; Singh, A.K., Department of Electronics and Communication Engineering, Punjab Engineering College, Deemed to Be University, Chandigarh, India	IET Microwaves, Antennas and Propagation	2020	17518725
2951	Solar light driven photocatalytic oxidative degradation of methyl viologen using Mn ²⁺ /Mn ⁷⁺ -TiO ₂ nanocomposites	Bhardwaj S., Pal B.	Bhardwaj, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2020	10106030
2952	Spectroscopic analysis of alkaline-earth metal (Mg, Ca, Sr and Ba) co-doped Gd ₂ O ₃ :Eu phosphors synthesized via co-precipitation route	Priya R., Pandey O.P.	Priya, R., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2020	13861425
2953	Waste-to-energy nexus for circular economy and environmental protection: Recent trends in hydrogen energy	Sharma S., Basu S., Shetti N.P., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 030, India; Aminabhavi, T.M., Pharmaceutical Engineering, SET's of Pharmacy, Dharwad, Karnataka 580 002, India	Science of the Total Environment	2020	489697

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2954	Skin-Patchable Electrodes for Biosensor Applications: A Review	Shetti N.P., Mishra A., Basu S., Mascarenhas R.J., Kakarla R.R., Aminabhavi T.M.	Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, KLE Institute of Technology, Hubballi, Karnataka 580 030, India; Mishra, A., Department of Chemistry, Bilkent University, Cankaya, Ankara, 06008, Turkey; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mascarenhas, R.J., Electrochemistry Research Group, Department of Chemistry, St. Joseph's College (Autonomous), Lalbagh Road, Bangalore, Karnataka 560027, India; Kakarla, R.R., School of Chemical and Biomolecular Engineering, University of Sydney, Sydney, NSW 2006, Australia; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka 580 002, India	ACS Biomaterials Science and Engineering	2020	23739878
2955	Inhibition of Alzheimer's amyloid- β 42 peptide aggregation by a bi-functional bis-tryptoline triazole: key insights from molecular dynamics simulations	Narang S.S., Goyal D., Goyal B.	Narang, S.S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Journal of Biomolecular Structure and Dynamics	2020	7391102
2956	Ideologies and their impact on higher education	Gill S.K., Singh G.	Gill, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, G., Same University, India	Economic and Political Weekly	2020	129976
2957	Analysis of n-evaporation from light mass nuclei formed via p-induced reactions	Kaur A., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Modern Physics Letters A	2020	2177323
2958	Natural Deep Eutectic Solvent-Mediated Extractive Distillation for Separation of Acetonitrile + Water Azeotropic Mixture	Sharma B., Singh N., Kushwaha J.P.	Sharma, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Chemical and Engineering Data	2020	219568
2959	Investigation of three-level NPC-qZS inverterbased grid-connected renewable energy system	Singh N., Jain S.K.	Singh, N., EIED, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, India; Jain, S.K., EIED, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, India	IET Power Electronics	2020	17554535
2960	Designing composition tuned glasses with enhanced properties for use as substrate in Cu ₂ ZnSnS ₄ based thin film solar cells	Bansal N., Chandra Mohanty B., Singh K.	Bansal, N., School of Physics & Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chandra Mohanty, B., School of Physics & Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics & Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Alloys and Compounds	2020	9258388
2961	Coronavirus Research Trends: A 50-Year Bibliometric Assessment	Ram S.	Ram, S., Central Library, Thapar Institute of Engineering & Technology, Patiala, India	Science and Technology Libraries	2020	0194262X
2962	Analyzing the effectiveness and contribution of each axis of tri-axial accelerometer sensor for accurate activity recognition	Javed A.R., Sarwar M.U., Khan S., Iwendi C., Mittal M., Kumar N.	Javed, A.R., National Center for Cyber Security, Air University, Islamabad, 44000, Pakistan; Sarwar, M.U., Department of Computer Sciences, National University of Computer and Emerging Sciences, Islamabad, 44000, Pakistan; Khan, S., National Center for Cyber Security, Air University, Islamabad, 44000, Pakistan; Iwendi, C., Department of Electronics BCC of Central South, University of Forestry and Technology, Changsha, 410004, China; Mittal, M., Department of Information Science and Engineering, Kyoto Sangyo University, Kyoto, 603-8555, Japan; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Sensors (Switzerland)	2020	14248220
2963	Novel distance measures for cubic intuitionistic fuzzy sets and their applications to pattern recognitions and medical diagnosis	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University Patiala, Patiala, Punjab 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University Patiala, Patiala, Punjab 147004, India	Granular Computing	2020	23644966
2964	Computationally efficient procedure for stress analysis of laminated composite shell subjected to different loading using abaqus software	Gadade A.M., Sutar M.	Gadade, A.M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sutar, M., Mechanical Engineering Department, Army Institute of Technology, Pune, 411015, India	Revue des Composites et des Materiaux Avances	2020	11697954
2965	A short review on properties and applications of zinc oxide based thin films and devices: ZnO as a promising material for applications in electronics, optoelectronics, biomedical and sensors	Vyas S.	Vyas, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Johnson Matthey Technology Review	2020	20565135

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2966	Genome-wide identification and annotation of metabolite producing gene clusters in rice genome	Singh H., Siddique N., Upadhyay A.K.	Singh, H., School of Bioengineering and Biosciences, Lovely Professional UniversityPunjab, India; Siddique, N., School of Bioengineering and Biosciences, Lovely Professional UniversityPunjab, India; Upadhyay, A.K., Department of Biotechnology, Thapar UniversityPunjab, India	Research Journal of Pharmacy and Technology	2020	9743618
2967	Synthesis of cymene in flow reactor over rare earth metal modified zeolite catalyst	Thakur R., Halder G., Barman S.	Thakur, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Halder, G., Department of Chemical Engineering, NIT Durgapur, Durgapur, West Bengal, India; Barman, S., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India	International Journal of Chemical Reactor Engineering	2020	15426580
2968	Effect of density and nucleon-nucleon potential on the fusion cross section within the relativistic mean field formalism	Bhuyan M., Kumar R., Rana S., Jain D., Patra S.K., Carlson B.V.	Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, D., Department of Physics, Mata Gujri College, Fatehgarh, Punjab, 140407, India; Patra, S.K., Institute of Physics Sachivalaya Marg, Sainik School, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Mumbai, 400085, India; Carlson, B.V., Instituto Tecnológico de Aeronáutica, São Paulo, 12228-900, Brazil	Physical Review C	2020	24699985
2969	Power aggregation operators and VIKOR methods for complex q-rung orthopair fuzzy sets and their applications	Garg H., Gwak J., Mahmood T., Ali Z.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Ali, Z., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan	Mathematics	2020	22277390
2970	Runoff Induced Soil Erosion and its Impact on the Quality of Water for Upper-Patiala-Ki-Rao Catchment Lying on Shivalik Hills	Walia S., Singh S., Babbar R.	Walia, S., Department of Civil Engineering, Thapar University, Patiala, 147 004, India; Singh, S., Department of Civil Engineering, Thapar University, Patiala, 147 004, India; Babbar, R., Department of Civil Engineering, Thapar University, Patiala, 147 004, India	Journal of the Geological Society of India	2020	167622
2971	Novel Horizon: Smart TiO2/Sn(IV)SbP Nanocomposite with Enhanced Electrochemical and Photocatalytic Properties	Kaushal S., Kaur H., Kumar S., Badru R., Mittal S., Singh P.	Kaushal, S., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Kaur, H., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Kumar, S., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Badru, R., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India; Mittal, S., School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib (Pb), 140407, India	Russian Journal of Inorganic Chemistry	2020	360236
2972	Whale Optimization Algorithm with Applications to Resource Allocation in Wireless Networks	Pham Q.-V., Mirjalili S., Kumar N., Alazab M., Hwang W.-J.	Pham, Q.-V., Research Institute of Computer, Information and Communication, Inje University to Pusan National University, Busan, 46241, South Korea; Mirjalili, S., Center for Artificial Intelligence Research and Optimization, Torrens University Australia, Brisbane, 4006, Australia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia; Hwang, W.-J., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India	IEEE Transactions on Vehicular Technology	2020	189545
2973	A Multifunctional Solar PV and Grid Based On-Board Converter for Electric Vehicles	Singh A.K., Badoni M., Tatte Y.N.	Singh, A.K., Department of Electrical and Instrumentation Engineering, India Thapar Institute of Engineering and Technology, Patiala, 147001, India; Badoni, M., Department of Electrical and Instrumentation Engineering, India Thapar Institute of Engineering and Technology, Patiala, 147001, India; Tatte, Y.N., Department of Electrical and Instrumentation Engineering, India Thapar Institute of Engineering and Technology, Patiala, 147001, India	IEEE Transactions on Vehicular Technology	2020	189545
2974	CB-CAS: Certificate-Based Efficient Signature Scheme With Compact Aggregation for Industrial Internet of Things Environment	Verma G.K., Singh B.B., Kumar N., Chamola V.	Verma, G.K., Department of Mathematics, Amity School of Engineering and Technology, Amity University Madhya Pradesh, Gwalior, 474001, India; Singh, B.B., Department of Computer Science, Govt. K. R. G. (PG) College, Gwalior, India; Kumar, N., King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Chamola, V., Department of Electrical and Electronics Engineering, BITS Pilani, Pilani, 333031, India	IEEE Internet of Things Journal	2020	23274662
2975	On the improvement in grey wolf optimization	Salgotra R., Singh U., Sharma S.	Salgotra, R., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India; Singh, U., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India; Sharma, S., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India	Neural Computing and Applications	2020	9410643
2976	Recent advances in computational studies of thin-film solar cell material BaSi2	Kumar M., Umezawa N., Imai M.	Kumar, M., School of Physics and Materials Sciences, Thapar University, Patiala, 147004, India; Umezawa, N., Semiconductor RandD Center, Samsung Electronics, Hwaseong-si, Gyeonggi-do, 18448, South Korea; Imai, M., Research Center for Functional Materials, National Institute for Materials Science, Ibaraki, 305-0047, Japan	Japanese Journal of Applied Physics	2020	214922

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2977	A Hamiltonian model of the Fibonacci quasicrystal using non-local interactions: simulations and spectral analysis	Sen A., Perelman C.C.	Sen, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Perelman, C.C., Centre for Theoretical and Physical Sciences, Clark Atlanta University, Atlanta, GA, United States, Ronin Institute, 127 Haddon Pl., Montclair, NJ 07043, United States	European Physical Journal B	2020	14346028
2978	Love waves in a layer with void pores over a microstructural couple stress substrate with corrugated boundary surfaces	Sharma V., Goyal R., Kumar S.	Sharma, V., Department of Mathematics, Lovely Professional University, Phagwara, Punjab 144411, India; Goyal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	16785878
2979	A New Uncertainty Measure of Discrete Z-numbers	Li Y., Garg H., Deng Y.	Li, Y., Institute of Fundamental and Frontier Science, University of Electronic Science and Technology of China, Chengdu, 610054, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India; Deng, Y., Institute of Fundamental and Frontier Science, University of Electronic Science and Technology of China, Chengdu, 610054, China	International Journal of Fuzzy Systems	2020	15622479
2980	Investigations for mechanical, thermal and magnetic properties of polymeric composite matrix for four-dimensional printing applications	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India, Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	16785878
2981	Performance analysis of nyquist superchannel with multicast overlay system	Goyal S., Kaler R.S., Singh H.	Goyal, S., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR), ECE Department, Thapar University, Patiala, Punjab 147004, India; Singh, H., Department of Electronics and Communication Engineering, Thapar University, Patiala, India	Optik	2020	304026
2982	Modification of structural and magnetic properties of Co _{0.5} Ni _{0.5} Fe ₂ O ₄ nanoparticles embedded Polyvinylidene Fluoride nanofiber membrane via electrospinning method	Kaur G.A., Shandilya M., Rana P., Thakur S., Uniyal P.	Kaur, G.A., School of Physics and Materials Science, Shoolini University, Solan, HP 173229, India; Shandilya, M., School of Physics and Materials Science, Shoolini University, Solan, HP 173229, India; Rana, P., School of Physics and Materials Science, Shoolini University, Solan, HP 173229, India; Thakur, S., Department of Physics, Eternal University, Baru Sahib, Sirmour, HP 173101, India; Uniyal, P., Smart Materials Laboratory, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Nano-Structures and Nano-Objects	2020	2352507X
2983	Data aggregation algorithms for wireless sensor network: A review	Kaur M., Munjal A.	Kaur, M., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Munjal, A., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ad Hoc Networks	2020	15708705
2984	In vitro comparison of conventional surgical and rotary ultrasonic bone drilling techniques	Gupta V., Singh R.P., Pandey P.M., Gupta R.	Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R.P., Mechanical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India; Pandey, P.M., Mechanical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India; Gupta, R., Department of Orthopedics, Sports Injury Division, Government Medical College Hospital, Chandigarh, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2020	9544119
2985	Energy Management for Cyber-Physical Cloud Systems	Kumar N., Vasilakos A.V., Choo K.-K.R., Yang L.T.	Kumar, N., Thapar University, Patiala, Punjab, India; Vasilakos, A.V., Lulea University of Technology, Sweden; Choo, K.-K.R., University of South Australia, Australia; Yang, L.T., St. Francis Xavier University, Canada	Future Generation Computer Systems	2020	0167739X
2986	Efficient and Secure Anonymous Authentication with Location Privacy for IoT-Based WBANS	Vijayakumar P., Obaidat M.S., Azees M., Islam S.K.H., Kumar N.	Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, Tamil Nadu, India; Obaidat, M.S., ECE Department, Nazarbayev University, Nur-Sultan, Kazakhstan, Kazakhstan, KAIST, University of Jordan, Amman, 11942, Jordan, University of Science and Technology, Beijing, 100083, China, Amity University, Noida, 201313, India; Azees, M., Department of Electronics and Communication Engineering, GMR Institute of Technology, Srikakulam, India; Islam, S.K.H., Department of Computer Science and Engineering, Indian Institute of Information Technology Kalyani, West Bengal, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, India	IEEE Transactions on Industrial Informatics	2020	15513203
2987	A context sensitive security framework for Enterprise multimedia placement in fog computing environment	Gill H.K., Sehgal V.K., Verma A.K.	Gill, H.K., Department of Computer Science and Engineering, Jaypee University of Information Technology, Solan, Himachal Pradesh, India; Sehgal, V.K., Department of Computer Science and Engineering, Jaypee University of Information Technology, Solan, Himachal Pradesh, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2020	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2988	Insulin-copper quantum clusters preparation and receptor targeted bioimaging	Kaur P., Sharma S., Choudhury S.D., Singh D., Sharma S., Gadhav K., Garg N., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Choudhury, S.D., Department of Zoology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140407, India; Singh, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gadhav, K., Indian Institute of Technology (IIT) Mandi, Mandi, Himachal Pradesh 175005, India; Garg, N., Indian Institute of Technology (IIT) Mandi, Mandi, Himachal Pradesh 175005, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Colloids and Surfaces B: Biointerfaces	2020	9277765
2989	Seismic Vulnerability Assessment and Strengthening of New Market Building Damaged after January 4, 2016, Imphal, India, Earthquake	Choudhury T., Kumar V., Rashid F., Kaushik H.B.	Choudhury, T., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, V., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, 781039, India; Rashid, F., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, 781039, India; Kaushik, H.B., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, 781039, India	Journal of Performance of Constructed Facilities	2020	8873828
2990	Voltage unbalance and harmonics compensation in AC microgrid using add-on repetitive controller	Trivedi A., Saroha J.	Trivedi, A., Electrical and Instrumentation Engineering Department, TIET, Patiala, Punjab, India; Saroha, J., Department of Instrumentation Engineering, Kurukshetra University, Kurukshetra, Haryana, India	International Transactions on Electrical Energy Systems	2020	20507038
2991	Machine learning-based screening of red blood cells using quantitative phase imaging with micro-spectrocolorimetry	Singh V., Srivastava V., Mehta D.S.	Singh, V., Department of Physics, Indian Institute of Technology Delhi, New Delhi, 110016, India; Srivastava, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, D.S., Department of Physics, Indian Institute of Technology Delhi, New Delhi, 110016, India	Optics and Laser Technology	2020	303992
2992	Preparation of novel porous ceramic microfiltration membranes from fly ash, kaolin and dolomite mixtures	Malik N., Bulasara V.K., Basu S.	Malik, N., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab 147004, India; Bulasara, V.K., Department of Chemical Engineering, C.V. Raman College of Engineering, Bhubaneswar, Odisha 752054, India; Basu, S., School of Chemistry & Biochemistry, Thapar University, Patiala, Punjab 147004, India	Ceramics International	2020	2728842
2993	Optimizing experimental binary adsorption of aniline-nitrobenzene onto granular activated carbon packed bed by Taguchi's methodology	Midda M.O., Srivastava V.C., Kushwaha J.P.	Midda, M.O., Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India, Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan 302017, India; Srivastava, V.C., Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Water Process Engineering	2020	22147144
2994	Review of perovskite-structure related cathode materials for solid oxide fuel cells	Kaur P., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ceramics International	2020	2728842
2995	0.55 Tb/s heterogeneous Nyquist-WDM superchannel using different polarization multiplexed subcarriers	Sharma D., Prajapati Y.K., Tripathi R.	Sharma, D., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Prajapati, Y.K., Electronics and Communication Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, 211004, India; Tripathi, R., Electronics and Communication Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, 211004, India	Photonic Network Communications	2020	1387974X
2996	Word sense disambiguation for Punjabi language using deep learning techniques	Singh V., Kumar P.	Singh, V., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India; Kumar, P., Computer Science and Engineering Department, Thapar University, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
2997	Lyapunov stability-Dynamic Back Propagation-based comparative study of different types of functional link neural networks for the identification of nonlinear systems	Kumar R., Srivastava S., Mohindru A.	Kumar, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Srivastava, S., Division of Instrumentation and Control Engineering, Netaji Subhas University of Technology (formerly Netaji Subhas Institute of Technology), Sector 3, Dwarka, New Delhi, 110078, India; Mohindru, A., Department of Electronics and Communication Engineering, Indraprastha Institute of Information Technology, New Delhi, 110020, India	Soft Computing	2020	14327643
2998	Detection Framework for Content-Based Cybercrime in Online Social Networks Using Metaheuristic Approach	Singh A., Kaur M.	Singh, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Arabian Journal for Science and Engineering	2020	2193567X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
2999	Binary cuckoo search metaheuristic-based supercomputing framework for human behavior analysis in smart home	Kaur M., Kaur G., Sharma P.K., Jolfaei A., Singh D.	Kaur, M., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Kaur, G., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Sharma, P.K., Department of Computer Science and Engineering, Seoul National University of Science and Technology (SeoulTech), Seoul, 01811, South Korea; Jolfaei, A., Department of Computing, Macquarie University, Sydney, NSW 2113, Australia; Singh, D., Department of Electronics Engineering, Hankuk University of Foreign Studies (Global Campus), Yongin, South Korea	Journal of Supercomputing	2020	9208542
3000	An Efficient R-Peak Detection Using Riesz Fractional-Order Digital Differentiator	Kaur A., Kumar S., Agarwal A., Agarwal R.	Kaur, A., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, S., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, A., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, R., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Circuits, Systems, and Signal Processing	2020	0278081X
3001	An information set-based robust text-independent speaker authentication	Medikonda J., Bhardwaj S., Madasu H.	Medikonda, J., Manipal Academy of Higher Education, Manipal, Karnataka, India; Bhardwaj, S., Thapar Institute of Engineering and Technology, Patiala, India; Madasu, H., Indian Institute of Technology, New Delhi, India	Soft Computing	2020	14327643
3002	Effective removal of Bisphenol A from plastic waste leachates by microbial polymer impregnated with activated carbon	Jain S., Ghosh M.	Jain, S., Department of Biotechnology, Thapar University, Patiala, Punjab 147004, India; Ghosh, M., Department of Biotechnology, Thapar University, Patiala, Punjab 147004, India	International Journal of Environmental Science and Technology	2020	17351472
3003	Identification in the delta domain: a unified approach via GWOCFA	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training and Research, Kolkata, West Bengal 700106, India	Soft Computing	2020	14327643
3004	Implementation of Low Supply Rail-to-Rail Differential Voltage Comparator on Flexible Hardware for a Flash ADC	Gupta A., Singh A., Agarwal A.	Gupta, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Circuits, Systems and Computers	2020	2181266
3005	A novel possibility measure to interval-valued intuitionistic fuzzy set using connection number of set pair analysis and its applications	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
3006	Aspect-based sentiment analysis using deep networks and stochastic optimization	Kumar R., Pannu H.S., Malhi A.K.	Kumar, R., Computer Science and Engineering, Thapar University, Patiala, 147004, India; Pannu, H.S., Computer Science and Engineering, Thapar University, Patiala, 147004, India; Malhi, A.K., Computer Science and Engineering, Thapar University, Patiala, 147004, India	Neural Computing and Applications	2020	9410643
3007	Classification of EEG signals using hybrid combination of features for lie detection	Saini N., Bhardwaj S., Agarwal R.	Saini, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2020	9410643
3008	An enhanced moth flame optimization	Kaur K., Singh U., Salgotra R.	Kaur, K., Department of ECE, Thapar University, Patiala, India; Singh, U., Department of ECE, Thapar University, Patiala, India; Salgotra, R., Department of ECE, Thapar University, Patiala, India	Neural Computing and Applications	2020	9410643
3009	Binary whale optimization algorithm and its application to unit commitment problem	Kumar V., Kumar D.	Kumar, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, D., Electronics and Communication Engineering Department, Delhi Technological University, Delhi, India	Neural Computing and Applications	2020	9410643
3010	Design of active noise control system using hybrid functional link artificial neural network and finite impulse response filters	Walia R., Ghosh S.	Walia, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Neural Computing and Applications	2020	9410643
3011	Transmission Performance of 112 Gb/s POLMUX QPSK Signal in OOK/DPSK WDM System	Sandhu H.K., Kaler R.S., Kaur G., Randhawa R.	Sandhu, H.K., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Kaur, G., Department of Electronics and Communication Engineering, Thapar University, Patiala, India; Randhawa, R., Department of Computer Science, Punjabi University, Patiala, India	Journal of Optical Communications	2020	1734911

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3012	Design of Current Differencing Transconductance Amplifier using a Novel Approach of Transconductance Boosting for High Frequency Applications	Rai S.K., Pandey R., Garg B.	Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Pandey, R., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Garg, B., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Circuits, Systems and Computers	2020	2181266
3013	Position analysis of brushless direct current motor using robust fixed order H-infinity controller	Hans S., Ghosh S.	Hans, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Assembly Automation	2020	1445154
3014	Rheological properties and thermal conductivity of bitumen binders modified with graphene	Ahmad Nazki M., Chopra T., Chandrappa A.K.	Ahmad Nazki, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chandrappa, A.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2020	9500618
3015	A middleware approach for reliable resource selection on Internet-of-Things	Bharti M., Saxena S., Kumar R.	Bharti, M., CSED, Thapar University, Patiala, India; Saxena, S., CSED, Thapar University, Patiala, India; Kumar, R., CSED, Thapar University, Patiala, India	International Journal of Communication Systems	2020	10745351
3016	An original framework for strategic technology development of small manufacturing enterprises in emerging economies	Nanda T., Gupta H., Singh T.P., Kusi-Sarpong S., Jabbour C.J.C., Cherri A.	Nanda, T., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, H., Department of Management Studies, IIT Dhanbad, Dhanbad, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Kusi-Sarpong, S., Business School, University of Southampton, Southampton, United Kingdom; Jabbour, C.J.C., Montpellier Business School, Montpellier, France; Cherri, A., Universidade de São Paulo, USP, São Carlos, Brazil	Benchmarking	2020	14635771
3017	Capacity optimization of grid connected solar/fuel cell energy system using hybrid ABC-PSO algorithm	Singh S., Chauhan P., Singh N.	Singh, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chauhan, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Hydrogen Energy	2020	3603199
3018	Supporting student registration across sections using a curriculum based existing time-table	Guleria S.K., Lal A.K.	Guleria, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Lal, A.K., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Advanced Science and Technology	2020	20054238
3019	Performance improvement of direct torque controlled five-phase induction motor in context of common-mode voltage, torque ripple and demagnetisation under low speed region	Tatte Y., Aware M., Singh A.K.	Tatte, Y., Thapar Institute of Engineering and Technology, Eied, Patiala, India; Aware, M., Electrical, Vnit, Nagpur, India; Singh, A.K., Thapar Institute of Engineering and Technology, Eied, Patiala, India	IET Power Electronics	2020	17554535
3020	Comparative analysis on selection and synthesis of multiple input converters: A review	Chander A.H., Sahu L.K., Ghosh S., Gupta K.K.	Chander, A.H., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Ghosh, S., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Power Electronics	2020	17554535
3021	Optimal control of infectious disease: Information-induced vaccination and limited treatment	Kumar A., Srivastava P.K., Dong Y., Takeuchi Y.	Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India; Dong, Y., School of Mathematics and Statistics, Central China Normal University, Wuhan, 430079, China; Takeuchi, Y., College of Science and Engineering, Department of Physics and Mathematics, Aoyama Gakuin University, Kanagawa, 252-5258, Japan	Physica A: Statistical Mechanics and its Applications	2020	3784371
3022	Optical and magnetic properties of Dy ³⁺ doped CdS dilute magnetic semiconductor nanoparticles	Jindal S., Sharma P.	Jindal, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Science in Semiconductor Processing	2020	13698001
3023	Optimal design of autonomous desalination with storage energy system using SSO algorithm	Ghosh S.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	International Journal of Energy Research	2020	0363907X
3024	Towards a secure incremental proxy re-encryption for e-healthcare data sharing in mobile cloud computing	Bhatia T., Verma A.K., Sharma G.	Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, G., Département d'Informatique, Université libre de Bruxelles, Bruxelles, Belgium	Concurrency and Computation: Practice and Experience	2020	15320626

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3025	Experimental and computational inverse thermal analysis of transient, non-linear heat flux in circular pin fin with temperature-dependent thermal properties	Singhal M., Singh S., Singla R.K., Goyal K., Jain D.	Singhal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Singh, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Jain, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India	Applied Thermal Engineering	2020	13594311
3026	Effect of variable oxidation states of Mn+n ion impregnated TiO2 nanocomposites for superior adsorption and photoactivity under visible light	Bhardwaj S., Pal B.	Bhardwaj, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Alloys and Compounds	2020	9258388
3027	An Efficient Single-Stage Based Power Electronic Interface for Plug-in Electric Vehicles	Singh A.K., Pathak M.K.	Singh, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Pathak, M.K., Department of Electrical Engineering, Indian Institute of Technology, Roorkee, 247 667, India	IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)	2020	2564602
3028	Modelling single and binary adsorptive behaviour of aniline and nitrobenzene onto granular activated carbon	Midda M.O., Srivastava V.C., Kushwaha J.P.	Midda, M.O., Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India, Department of Chemical Engineering, Manipal University Jaipur, Dehmi Kalan, Jaipur, Rajasthan, India; Srivastava, V.C., Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab, India	Physics and Chemistry of Liquids	2020	319104
3029	Agri-Info: Cloud Based Autonomic System for Delivering Agriculture as a Service	Singh S., Chana I., Buyya R.	Singh, S., School of Electronic Engineering and Computer Science, Queen Mary University of London, United Kingdom; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Buyya, R., Cloud Computing and Distributed Systems (CLOUDS) Laboratory, School of Computing and Information Systems, The University of Melbourne, Australia	Internet of Things (Netherlands)	2020	25426605
3030	Effect of machining parameters on surface finish and noise patterns for machining EN-19 steel with PVD-TiN coated mixed ceramic inserts in CNC turning operation	Arora D., Duvedi R.K., Singh D.	Arora, D., Department of Mechanical Engineering, Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut, U.P. 250005, India; Duvedi, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Scientific and Industrial Research	2020	224456
3031	Digital image forensic approach based on the second-order statistical analysis of CFA artifacts	Singh G., Singh K.	Singh, G., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India	Forensic Science International: Digital Investigation	2020	26662825
3032	Pilot-scale soda pulping of wheat straw using continuous pulp digester	Sheoran M., Kaur N., Chandra A., Gautam A.K., Arya R.K.	Sheoran, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Kaur, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Gautam, A.K., Department of Chemical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, 177 005, India; Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 144 011, India	Journal of the Indian Chemical Society	2020	194522
3033	Performance investigation of an innovative H-bridge derived multilevel inverter topology for marine applications	Kumar A., Bhatia R.S., Nijhawan P.	Kumar, A., Department of Electrical Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Bhatia, R.S., Department of Electrical Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Indian Journal of Geo-Marine Sciences	2020	25826506
3034	A novel stand-alone proton battery-based power supply system for marine ships	Oberoi A.S., Nijhawan P.	Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Indian Journal of Geo-Marine Sciences	2020	25826506
3035	On Commuting Automorphisms of Some Finite p-Groups	Garg R., Gumber D.	Garg, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gumber, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mathematical Notes	2020	14346
3036	Antimicrobial and antioxidant potential of Tylophora indica (Burm. F.) merrill and development of an efficient micropropagation system for its therapeutic use	Anand M., Sharma S., Monga P.	Anand, M., Amity Institute of Biotechnology, Amity University, Gurgaon, Haryana, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Monga, P., Department of Biotechnology, Thapar University, Patiala, Punjab, India	Medicinal Plants	2020	9754261

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3037	BlockSDN: Blockchain as a Service for Software Defined Networking in Smart City Applications	Aujla G.S., Singh M., Bose A., Kumar N., Han G., Buyya R.	Aujla, G.S., Newcastle University and Chandigarh University, United Kingdom; Singh, M., Chandigarh University, India; Bose, A., Chandigarh University, India; Kumar, N., Department of Computer Science and Information Engineering, Asia University, Thapar Institute of Engineering and Technology, Taiwan; Han, G., Nanjing Agricultural University, Hohai University, China; Buyya, R., University of Melbourne, Australia	IEEE Network	2020	8908044
3038	Cost optimization of a stand-alone hybrid energy system with fuel cell and PV	Singh S., Chauhan P., Aftab M.A., Ali I., Suhail Hussain S.M., Ustun T.S.	Singh, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Chauhan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Aftab, M.A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Ali, I., Department of Electrical Engineering, Jamia Millia Islamia (A Central University), New Delhi, 110025, India; Suhail Hussain, S.M., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0298, Japan; Ustun, T.S., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0298, Japan	Energies	2020	19961073
3039	CB-PS: An Efficient Short-Certificate-Based Proxy Signature Scheme for UAVs	Verma G.K., Singh B.B., Kumar N., He D.	Verma, G.K., Department of Mathematics, Hindustan College of Science and Technology, Mathura, 281122, India; Singh, B.B., Department of Computer Science, Government Kamla Raja Girls Post Graduate College, Gwalior, 474001, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China	IEEE Systems Journal	2020	19328184
3040	An Adaptive Grid Frequency Support Mechanism for Energy Management in Cloud Data Centers	Kaur K., Garg S., Kumar N., Aujla G.S., Choo K.-K.R., Obaidat M.S.	Kaur, K., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Garg, S., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, 147004, India; Aujla, G.S., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, 140413, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249-0631, United States; Obaidat, M.S., King Abdullah School of Information Technology, University of Jordan, Amman, Jordan, University of Science and Technology, Beijing, China	IEEE Systems Journal	2020	19328184
3041	Investigations on the strength of mechanical joints prepared from carbon fiber laminates with addition of carbon nanotubes	Kumar M., Saini J.S., Bhunia H.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engg. & Tech., Patiala, Punjab, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engg. & Tech., Patiala, Punjab, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engg. & Tech., Patiala, Punjab, India	Journal of Mechanical Science and Technology	2020	1738494X
3042	Amino acids 563–566 of the Na ⁺ /H ⁺ exchanger isoform 1 C-terminal cytosolic tail prevent protein degradation and stabilize protein expression and activity	Li X., Dutta D., Jung M., Zimmermann R., Fliegel L.	Li, X., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada; Dutta, D., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada, Department of Biotechnology, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab 147004, India; Jung, M., Medical Biochemistry and Molecular Biology, Saarland University, Homburg, 66421, Germany; Zimmermann, R., Medical Biochemistry and Molecular Biology, Saarland University, Homburg, 66421, Germany; Fliegel, L., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada	International Journal of Molecular Sciences	2020	16616596
3043	The impact of the predictive effect on traffic dynamics in a lattice model with passing	Kaur D., Sharma S.	Kaur, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	European Physical Journal B	2020	14346028
3044	Evaluation of the Performance of Search and Rescue Robots Using T-spherical Fuzzy Hamacher Aggregation Operators	Ullah K., Mahmood T., Garg H.	Ullah, K., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	International Journal of Fuzzy Systems	2020	15622479
3045	Experimental analysis of magnetorheological finishing of blind hole surfaces using permanent magnet designed tools	Sirwal S.A., Singh A.K., Paswan S.K.	Sirwal, S.A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2020	16785878
3046	Energy and Latency Aware Resource Management for Solar Powered Cellular Networks	Chamola V., Hassija V., Sikdar B., Kumar N., Ansari N.	Chamola, V., Birla Institute of Technology and Science (BITS), Pilani, India; Hassija, V., Jaypee Institute of Information and Technology, Noida, India; Sikdar, B., North Eastern Hill University, Shillong, India; Kumar, N., Computer Science and Department, Thapar Institute of Engineering and Technology, Patiala, India; Ansari, N., Birla Institute of Technology and Science (BITS), Pilani, India	IEEE Network	2020	8908044

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3047	SecBCS: a secure and privacy-preserving blockchain-based crowdsourcing system	Lin C., He D., Zeadally S., Kumar N., Choo K.-K.R.	Lin, C., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China, State Key Laboratory of Cryptology, P. O. Box 5159, Beijing, 100878, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China, State Key Laboratory of Cryptology, P. O. Box 5159, Beijing, 100878, China; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY 40506, United States; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security and Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249, United States	Science China Information Sciences	2020	1674733X
3048	Convolutional neural networks for 5G-enabled Intelligent Transportation System: A systematic review	Sirohi D., Kumar N., Rana P.S.	Sirohi, D., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science & Information Engineering, Asia University, Taiwan; Rana, P.S., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computer Communications	2020	1403664
3049	Machine Learning Models for Secure Data Analytics: A taxonomy and threat model	Gupta R., Tanwar S., Tyagi S., Kumar N.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Computer Communications	2020	1403664
3050	Discontinuous Galerkin approximation for excitatory-inhibitory networks with delay and refractory periods	Sharma D., Singh P.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	International Journal of Modern Physics C	2020	1291831
3051	Synthesis of naphthalimide-phenanthro[9,10-d]imidazole derivatives: In vitro evaluation, binding interaction with DNA and topoisomerase inhibition	Singh I., Luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Bioorganic Chemistry	2020	452068
3052	Software defined solutions for sensors in 6G/loE	Lv Z., Kumar N.	Lv, Z., School of Data Science and Software Engineering, Qingdao University, Qingdao, 266071, China; Kumar, N., Thapar Institute of Engineering and Technology, India	Computer Communications	2020	1403664
3053	A new method to realize nonrational driving-point functions	Kumar A., Ganguli S.	Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Circuit Theory and Applications	2020	989886
3054	Device-to-device content caching techniques in 5G: A taxonomy, solutions, and challenges	Prerna D., Tekchandani R., Kumar N.	Prerna, D., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Tekchandani, R., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science & Information Engineering, Asia University, Taiwan	Computer Communications	2020	1403664
3055	Guest Editorial: Special Section on Intelligent Informatics for Edge of Things in Smart Industrial Ecosystem	Zomaya A.Y., Kumar N., Rodrigues J.J.P.C., Aujja G.S.	Zomaya, A.Y., University of Sydney, Sydney, NSW, Australia; Kumar, N., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, India; Rodrigues, J.J.P.C., Federal University of Piaui (UFPI), Teresina - PI, Brazil; Aujja, G.S., Newcastle University, Newcastle Upon Tyne, United Kingdom	IEEE Transactions on Industrial Informatics	2020	15513203
3056	Temperature-dependent crosstalk between adjacent MLGNN interconnects of different dimensions and its impact on gate oxide reliability	Sidhu R., Rai M.K., Kaushik B.K.	Sidhu, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaushik, B.K., Department of Electronics and Communication Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India	Journal of Computational Electronics	2020	15698025

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3057	Reduced graphene oxide (RGO) induced modification of optical and magnetic properties of M-type nickel doped barium hexaferrite	Shah S., Pandey O.P., Mohammed J., Srivastava A.K., Gupta A., Basandrai D.	Shah, S., Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mohammed, J., Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India; Srivastava, A.K., Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India; Gupta, A., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basandrai, D., Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India	Journal of Sol-Gel Science and Technology	2020	9280707
3058	Semiautomatic Road Extraction Framework Based on Shape Features and LS-SVM from High-Resolution Images	Soni P.K., Rajpal N., Mehta R.	Soni, P.K., University School of Information Communication and Technology, Guru Gobind Singh Indraprastha University Dwarka, New Delhi, India; Rajpal, N., University School of Information Communication and Technology, Guru Gobind Singh Indraprastha University Dwarka, New Delhi, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of the Indian Society of Remote Sensing	2020	0255660X
3059	Anti-forensic approach for JPEG compressed images with enhanced image quality and forensic undetectability	Kumar A., Kansal A., Singh K.	Kumar, A., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Kansal, A., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, TIET, Patiala, Punjab, India	Multimedia Tools and Applications	2020	13807501
3060	Wavelength remodulation and dispersion compensation for full-duplex radio over fiber System using fiber Bragg grating	Kaur G., Kaler R.S.	Kaur, G., Electronics and Communication Engineering Department, Chandigarh Group of Colleges, Landran, Mohali, India; Kaler, R.S., Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India	Optik	2020	304026
3061	Visible-light-induced enhanced photocatalytic degradation of Rhodamine-B dye using Bi ₂ Sb ₂ -xS ₃ solid-solution photocatalysts	Dashairya L., Mehta A., Saha P., Basu S.	Dashairya, L., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India; Mehta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Saha, P., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Colloid and Interface Science	2020	219797
3062	BER Performance of SFBC-OFDM Systems Working Over Fading Channels Under Impulsive Environment	Kohli A.K., Kapoor D.S.	Kohli, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kapoor, D.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2020	2193567X
3063	Open-circuit fault-tolerance in multilevel inverters with reduced component count	Dewangan N.K., Prakash T., Tandekar J.K., Gupta K.K.	Dewangan, N.K., Department of Electrical Engineering, G H Raison Institute of Engineering and Technology, Nagpur, India; Prakash, T., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Tandekar, J.K., School of Electrical and Electronics Engineering, VIT Bhopal University, Bhopal, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2020	9487921
3064	Effect of MnO on structural, optical and thermoluminescence properties of lithium borosilicate glasses	Kaur A., Khan S., Kumar D., Bhatia V., Rao S.M., Kaur N., Singh K., Kumar A., Singh S.P.	Kaur, A., Department of Physics, Punjabi University, Patiala, Punjab 147002, India; Khan, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, D., Department of Physics, Punjabi University, Patiala, Punjab 147002, India; Bhatia, V., Department of Physics, Punjabi University, Patiala, Punjab 147002, India; Rao, S.M., Department of Physics, Punjabi University, Patiala, Punjab 147002, India, Institute of Physics, Academia Sinica, Taipei, 11529, Taiwan; Kaur, N., Department of Physics, Mata Gujri College, Fatehgarh Sahib, 140407, India; Singh, K., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, A., Department of Physics, University College, Benra, Dhuri, Punjab 148024, India; Singh, S.P., Department of Physics, Punjabi University, Patiala, Punjab 147002, India	Journal of Luminescence	2020	222313
3065	Statistical vertical reduction-based data abridging technique for big network traffic dataset	Garg S., Singh R., Obaidat M.S., Bhalla V.K., Sharma B.	Garg, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Thapar Institute of Engineering and Technology, Patiala, India; Obaidat, M.S., Nazarbayev University, Nur-Sultan, Kazakhstan, KASIT, University of Jordan, Amman, Jordan, and University of Science and Technology Beijing, Beijing, China; Bhalla, V.K., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University Himachal Pradesh, India	International Journal of Communication Systems	2020	10745351
3066	Deciphering the interaction of solvents with dual emissive carbon dots: A photoluminescence study and its response for different metal ions	Kainth S., Maity B., Basu S.	Kainth, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Materials Science and Engineering C	2020	9284931

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3067	A novel analytical model for interference estimation in CR-enabled femtocells	Singh S.P., Kumar A., Mishra S., Lakshmanan M., Kumar S.	Singh, S.P., Department of Electronics and Communication Engineering, Galgotias College of Engineering and Technology, Greater Noida, India; Kumar, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, S., IBM India Pvt. Ltd, Noida, India; Lakshmanan, M., Department of Electronics and Communication Engineering, Galgotias College of Engineering and Technology, Greater Noida, India; Kumar, S., Department of Electronics and Communication Engineering, Birla Institute of Technology Mesra, Ranchi, India	International Journal of Communication Systems	2020	10745351
3068	Low-Voltage Flipped Voltage Follower Cell Based Current Mirrors for High Frequency Applications	Shrivastava A., Pandey R., Jindal C.	Shrivastava, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Jindal, C., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Wireless Personal Communications	2020	9296212
3069	Power Quality Enhancement Using Euclidean Direction Search Based Control Technique	Badoni M., Singh A., Singh B.	Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Singh, A., Department of Electrical Engineering, Delhi Technological University, Delhi, 110042, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India	IEEE Transactions on Industrial Electronics	2020	2780046
3070	Analog Building Blocks Using QFGMOS Technique	Pandey R., Kiran B.	Pandey, R., Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kiran, B., Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Wireless Personal Communications	2020	9296212
3071	Temperature-dependent crosstalk and frequency spectrum analyses in adjacent interconnects of a mixed CNT bundle	Sharma M., Rai M.K., Khanna R.	Sharma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Computational Electronics	2020	15698025
3072	A multi-stage anomaly detection scheme for augmenting the security in IoT-enabled applications	Garg S., Kaur K., Batra S., Kaddoum G., Kumar N., Boukerche A.	Garg, S., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC, H3C 1K3, Canada, Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaur, K., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC, H3C 1K3, Canada, Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Batra, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaddoum, G., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC, H3C 1K3, Canada; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Boukerche, A., SITE, University of Ottawa, Canada	Future Generation Computer Systems	2020	0167739X
3073	Nanoscale Properties of Dysprosium-Doped Zinc Oxide Nanoparticles	Aggarwal N., Vasishth A., Kaur K., Verma N.K.	Aggarwal, N., Department of Physics, Maharishi Markandeshwar University, Sadopur, Ambala, India; Vasishth, A., Department of Physics, Chandigarh University, Gharuan, Mohali, India; Kaur, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Verma, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Superconductivity and Novel Magnetism	2020	15571939
3074	SoTaRePo: Society-Tag Relationship Protocol based architecture for UIP construction	Goel S., Kumar R.	Goel, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Expert Systems with Applications	2020	9574174
3075	Uncertainty Assessment in Cognitive Load for Multiple Object Tracking Based on EEG	Aggarwal A., Agarwal R.	Aggarwal, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Mapan - Journal of Metrology Society of India	2020	9703950
3076	Residence time distribution measurements in an industrial-scale pulp digester using technetium-99m as radiotracer	Goswami S., Pant H.J., Sheoran M., Chandra A., Sharma V.K., Bhunia H.	Goswami, S., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400085, India; Pant, H.J., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400085, India; Sheoran, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, V.K., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400085, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Radioanalytical and Nuclear Chemistry	2020	2365731
3077	Estimation of energy consumption of electric vehicles using Deep Convolutional Neural Network to reduce driver's range anxiety	Modi S., Bhattacharya J., Basak P.	Modi, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Bhattacharya, J., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basak, P., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	ISA Transactions	2020	190578
3078	Externally Recurrent Neural Network based identification of dynamic systems using Lyapunov stability analysis	Kumar R., Srivastava S.	Kumar, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Srivastava, S., Division of Instrumentation and Control Engineering, Netaji Subhas University of Technology (formerly Netaji Subhas Institute of Technology), Sector 3, Dwarka, New Delhi, 110078, India	ISA Transactions	2020	190578

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3079	Load frequency control of multi-area hybrid power system integrated with renewable energy sources utilizing FACTS & energy storage system	Dutta A., Prakash S.	Dutta, A., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India; Prakash, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, India	Environmental Progress and Sustainable Energy	2020	19447442
3080	Open-Switch Fault Tolerance Capabilities of Some Reduced Device Count Multilevel Inverter Topologies	Dewangan N.K., Bhatnagar P., Jain S.K., Gupta S., Gupta K.K.	Dewangan, N.K., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, S., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2020	22286179
3081	A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing	Jia X., He D., Kumar N., Choo K.-K.R.	Jia, X., School of Mathematics and Statistics, South-Central University for Nationalities, Wuhan, 430073, China, Guangxi Key Laboratory of Trusted Software, Guilin University of Electronic Technology, Guilin, 541004, China; He, D., Key Laboratory of Aerospace Information Security and Trusted Computing Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147003, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Systems Journal	2020	19328184
3082	Power Geometric Aggregation Operators Based on Connection Number of Set Pair Analysis Under Intuitionistic Fuzzy Environment	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2020	2193567X
3083	A comparative review of meta-heuristic approaches to optimize the SLA violation costs for dynamic execution of cloud services	Kumar A., Bawa S.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Soft Computing	2020	14327643
3084	Performance evaluation of classifiers for the recognition of offline handwritten Gurmukhi characters and numerals: a study	Kumar M., Jindal M.K., Sharma R.K., Jindal S.R.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, PB, India; Jindal, M.K., Department of Computer Science and Applications, Panjab University Regional Centre, Muksar, PB, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, PB, India; Jindal, S.R., Computer Science and Engineering, Yadavindra College of Engineering, Talwandi Sabo, Bathinda, PB, India	Artificial Intelligence Review	2020	2692821
3085	Multi-criteria group decision making based on ELECTRE I method in Pythagorean fuzzy information	Akram M., Ilyas F., Garg H.	Akram, M., Department of Mathematics, University of the Punjab, New Campus, Lahore, 4590, Pakistan; Ilyas, F., Department of Mathematics, University of the Punjab, New Campus, Lahore, 4590, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Soft Computing	2020	14327643
3086	Linguistic single-valued neutrosophic power aggregation operators and their applications to group decision-making problems	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Nancy, School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	IEEE/CAA Journal of Automatica Sinica	2020	23299266
3087	A survey of mono- and multi-lingual character recognition using deep and shallow architectures: indic and non-indic scripts	Kaur S., Bawa S., Kumar R.	Kaur, S., Thapar Institute of Engineering and Technology, Patiala, India; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Thapar Institute of Engineering and Technology, Patiala, India	Artificial Intelligence Review	2020	2692821
3088	Robust Averaging-Geometric Aggregation Operators for Complex Intuitionistic Fuzzy Sets and Their Applications to MCDM Process	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2020	2193567X
3089	In Vitro Anti-oxidant, Anti-fungal and Anti-staphylococcal Activity of Resveratrol-Producing Endophytic Fungi	Dwibedi V., Saxena S.	Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First Floor), Patiala, Punjab 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First Floor), Patiala, Punjab 147004, India	Proceedings of the National Academy of Sciences India Section B - Biological Sciences	2020	3698211
3090	Enhanced accuracy in reduced order modeling for linear stable/unstable system	Tiwari S.K., Kaur G.	Tiwari, S.K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	International Journal of Dynamics and Control	2020	2195268X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3091	Ball convergence for a three-point method with optimal convergence order eight under weak conditions	Argyros I.K., Kansal M., Kanwar V.	Argyros, I.K., Department of Mathematical Sciences, Cameron University, Lawton, OK 73505, United States; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Kanwar, V., University Institute of Engineering and Technology, Panjab University, Chandigarh, 160 014, India	Asian-European Journal of Mathematics	2020	17935571
3092	Secure Remote User Authenticated Key Establishment Protocol for Smart Home Environment	Wazid M., Das A.K., Odelu V., Kumar N., Susilo W.	Wazid, M., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Odelu, V., Department of Computer Science and Engineering, Indian Institute of Information Technology, Sri City, Chittoor, Andhra Pradesh, 517 588, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Susilo, W., School of Computing and Information Technology, University of Wollongong, Wollongong, NSW 2500, Australia	IEEE Transactions on Dependable and Secure Computing	2020	15455971
3093	Novel nano insulin formulation modulates cytokine secretion and remodelling to accelerate diabetic wound healing	Kaur P., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Progress and Prospects in Nanoscience Today	2020	
3094	A unified machine system identification technique using FAGWO algorithm	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of EIE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, G., Department of EIE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sarkar, P., Department of EE, National Institute of Technical Teachers' Training and Research, Kolkata, India	AIP Conference Proceedings	2020	0094243X
3095	A new hybrid algorithm for identification in the unified delta framework	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of EIE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, G., Department of EIE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sarkar, P., Department of EE, National Institute of Technical Teachers' Training and Research, Kolkata, India	AIP Conference Proceedings	2020	0094243X
3096	Application of fuzzy-genetic and regularization random forest (FG-RRF): Estimation of crop evapotranspiration (ETc) for maize and wheat crops	Saggi M.K., Jain S.	Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering & Technology, India	Agricultural Water Management	2020	3783774
3097	Analysis of behavior of bare and in-filled RC frames subjected to quasi static loading	Sandhu B., Sharma S., Kwatra N.	Sandhu, B., Department of Civil Engineering, Thapar University, Patiala, Punjab, 147004, India; Sharma, S., Department of Civil Engineering, Thapar University, Patiala, Punjab, 147004, India; Kwatra, N., Department of Civil Engineering, Thapar University, Patiala, Punjab, 147004, India	Structural Engineering and Mechanics	2020	12254568
3098	Biocatalytic Aza-Michael Addition of Aromatic Amines to Enone Using α -Amylase in Water	Dutt S., Goel V., Garg N., Choudhury D., Mallick D., Tyagi V.	Dutt, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goel, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Garg, N., School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh 175005, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mallick, D., Department of Chemistry, Presidency University, Kolkata, West Bengal 700073, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advanced Synthesis and Catalysis	2020	16154150
3099	Computation of electroconductive gyrotactic bioconvection under nonuniform magnetic field: Simulation of smart bi-nanopolymer coatings for solar energy	Aneja M., Sharma S., Kuharat S., Anwar Beg O.	Aneja, M., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, Punjab, 147004, India; Sharma, S., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, Punjab, 147004, India; Kuharat, S., Aeronautical and Mechanical Engineering, University of Salford, Manchester, M54WT, United Kingdom; Anwar Beg, O., Aeronautical and Mechanical Engineering, University of Salford, Manchester, M54WT, United Kingdom	International Journal of Modern Physics B	2020	2179792
3100	Lithium Zirconate as a Selective and Cost-Effective Mixed Metal Oxide Catalyst for Glycerol Carbonate Production	Kaur A., Ali A.	Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Industrial and Engineering Chemistry Research	2020	8885885
3101	Overview of cold spray coatings applications and comparisons: a critical review	Kumar S., Kumar M., Jindal N.	Kumar, S., Chandigarh Group of Colleges, Landran, India; Kumar, M., Chandigarh University, Mohali, India; Jindal, N., Thapar University, Patiala, India	World Journal of Engineering	2020	17085284
3102	A study of energy loss due to particle to particle and wall collisions during fluidized dense-phase pneumatic transport	Sharma K., Mallick S.S., Mittal A.	Sharma, K., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Mallick, S.S., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Mittal, A., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India	Powder Technology	2020	325910

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3103	Influence of heat treatment on spectroscopic and structural properties of vitreous Er ³⁺ -doped zinc borotellurite	Kaur S., Pandey O.P., Jayasankar C.K., Chopra N.	Kaur, S., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab, India, School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, India; Jayasankar, C.K., Department of Physics, Sri Venkateswara University, Tirupati, India; Chopra, N., Department of Physics, Kanya Maha Vidyalaya, Jalandhar, Punjab, India	Journal of Non-Crystalline Solids	2020	223093
3104	Chemodosimeters for optical detection of fluoride anion	Dhiman S., Ahmad M., Singla N., Kumar G., Singh P., Luxami V., Kaur N., Kumar S.	Dhiman, S., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Ahmad, M., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Singla, N., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, P., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, N., Department of Chemistry, Center for Advanced Studies, Panjab University, Chandigarh, India; Kumar, S., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	Coordination Chemistry Reviews	2020	108545
3105	Plug flow approaching novel reactor employing in-situ dual effect of photocatalysis and photo-Fenton for the degradation of metronidazole	Talwar S., Verma A.K., Sangal V.K.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India	Chemical Engineering Journal	2020	13858947
3106	Strategically designed reduced graphene oxide based magnetic responsive nanocatalysts for the attenuation of recalcitrant pollutants	Kapoor S., Kumar V., Tikoo K.B., Chudasama B., Goel N., Singhal S.	Kapoor, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Kumar, V., HRTEM Facility Lab, NIPER, S.A.S. Nagar, Mohali, Punjab 160062, India; Tikoo, K.B., HRTEM Facility Lab, NIPER, S.A.S. Nagar, Mohali, Punjab 160062, India; Chudasama, B., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Goel, N., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Singhal, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Ceramics International	2020	2728842
3107	Time fractional (2+1)-dimensional Wu-Zhang system: Dispersion analysis, similarity reductions, conservation laws, and exact solutions	Kaur B., Gupta R.K.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, R.K., Department of Mathematics and Statistics, Central University of Punjab, Bathinda, Punjab 151001, India, Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana 123031, India	Computers and Mathematics with Applications	2020	8981221
3108	A 3-D printed square loop frequency selective surface for harmonic radar applications	Singh D., Yadav R.P.	Singh, D., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Yadav, R.P., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Electromagnetic Waves and Applications	2020	9205071
3109	Impact of K16A and K28A mutation on the structure and dynamics of amyloid-β42 peptide in Alzheimer's disease: key insights from molecular dynamics simulations	Shuaib S., Saini R.K., Goyal D., Goyal B.	Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Saini, R.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Journal of Biomolecular Structure and Dynamics	2020	7391102
3110	Quantum and dual-tree complex wavelet transform-based image watermarking	Ghai D., Gianey H.K., Jain A., Uppal R.S.	Ghai, D., Lovely Professional University, Jalandhar, India; Gianey, H.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, A., Foecs, Terthanker Mahaveer University, Moradabad, U.P., India; Uppal, R.S., Computer Science and Engineering Department, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab, India	International Journal of Modern Physics B	2020	2179792
3111	Real-time mental health monitoring: The indian scenario	Wason R., Rana P.S., Jain V.	Wason, R., Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), India; Rana, P.S., Thapar Institute of Engineering and Technology, India; Jain, V., Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), India	Applications of Deep Learning and Big IoT on Personalized Healthcare Services	2020	
3112	Electrical discharge machining of polymer composite materials	Abylaz T., Muratov K., Shlykov E., Morozov E., Karmanov V., Shakirzianov T., Sarabjeet S.S., Sahil D.	Abylaz, T., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Muratov, K., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Shlykov, E., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Morozov, E., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Karmanov, V., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Shakirzianov, T., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Sarabjeet, S.S., Mechanical Engineering Department, Beant College of Engineering and Technology, Gurdaspur, 143521, India; Sahil, D., Thapar Institute of Engineering and Technology, Patiala, 147001, India	IOP Conference Series: Materials Science and Engineering	2020	17578981

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3113	Experimental analysis of the EDM process of dissimilar materials	Ablyaz T., Shlykov E., Muratov K., Oglezneva S., Karmanov V., Osinnikov I., Sarabjeet S.S., Sahil D.	Ablyaz, T., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Shlykov, E., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Muratov, K., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Oglezneva, S., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Karmanov, V., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Osinnikov, I., Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Sarabjeet, S.S., Mechanical Engineering Department, Beant College of Engineering and Technology, Gurdaspur, 143521, India; Sahil, D., Thapar Institute of Engineering and Technology, Patiala, 147001, India	IOP Conference Series: Materials Science and Engineering	2020	17578981
3114	Capture and fission analysis of various superheavy isotopes with A CN = 258-280	Kaur G., Sharma M.K.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Communications in Theoretical Physics	2020	2536102
3115	Segmentation of Offline Handwritten Gurmukhi Words Using Projection Features	Mahto M.K., Bhatia K., Sharma R.K.	Mahto, M.K., Gurukul Kangri Vishwavidyalaya, Department of Computer Science, Haridwar, India; Bhatia, K., Gurukul Kangri Vishwavidyalaya, Department of Computer Science, Haridwar, India; Sharma, R.K., Thapar Institute of Engg. Tech., Department of CSandE, Patiala, India	Proceedings of the 2019 8th International Conference on System Modeling and Advancement in Research Trends, SMART 2019	2020	
3116	Computational evaluation of effectiveness for intratumoral injection strategies in magnetic nanoparticle assisted radiotherapy	Singh G., Kumar N., Avti P.K.	Singh, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Avti, P.K., Department of Biophysics, Post Graduate Institute of Medical Education and Research (PGIMER), #520, 5th Floor, Research 'B' Block, Sector-12, Chandigarh, 160012, India	International Journal of Heat and Mass Transfer	2020	179310
3117	Numerical analysis on factors affecting hydrophobicity and icephobicity of the high voltage insulator	Srivastava V., Singh Rajpurohit B., Kaur M.	Srivastava, V., Indian Institute of Technology, School of Computing and Electrical Engineering, Mandi, India; Singh Rajpurohit, B., Indian Institute of Technology, School of Computing and Electrical Engineering, Mandi, India; Kaur, M., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering, Patiala, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3118	Frequency response analysis for accounting the changes in permittivity of natural ester oil with mineral oil	Jain A., Garg A., Velandy J., Narasimhan C.S.	Jain, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Garg, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Velandy, J., Formerly in CG Power and Industrial Solution Limited, Transformer Technology in R and D, Mandideep, Bhopal, Madhya Pradesh, India; Narasimhan, C.S., R and D Savita Oil Technologies Limited, Navi Mumbai, Mumbai, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3119	Thermal performance of ester oil transformers with different placement of cooling fan	Velandy J., Garg A., Narasimhan C.S.	Velandy, J., Transformer Technology in R and D, Formerly in CG Power and Industrial Solution Limited, Mandideep, Bhopal, Madhya Pradesh, India; Garg, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., R and D Savita Oil Technologies Limited, Navi Mumbai, Mumbai, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3120	Prediction of insulating oil for transformers through fuzzy logic approach	Siddique Z.B., Mehta S., Basak P.	Siddique, Z.B., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Mehta, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Basak, P., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3121	Behavior of natural ester oil under negative and positive lightning impulse stress	Agarwal R., Uppal A., Sharma P., Narasimhan C.S., Beldar S.S., Velandy J.	Agarwal, R., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Uppal, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Sharma, P., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., R and D Savita Oil Technologies Limited, Navi Mumbai, Mumbai, India; Beldar, S.S., R and D Savita Oil Technologies Limited, Navi Mumbai, Mumbai, India; Velandy, J., Formerly in CG Power and Industrial Solution Limited, Transformer Technology in R and D, Mandideep, Bhopal, Madhya Pradesh, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3122	Continuous thermal overloading capabilities of ester oil transformers in oil directed cooling conditions	Velandy J., Garg A., Narasimhan C.S.	Velandy, J., Formerly in CG Power and Industrial Solution Limited, Transformer Technology in R and D, Mandideep, Bhopal, Madhya Pradesh, India; Garg, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., R and D Savita Oil Technologies Limited, Navi Mumbai, Mumbai, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3123	Effect of aromatics and polar contaminant of natural ester oil on dielectric strength and breakdown time in mineral oil under lightning impulse voltage excitations	Sharma P., Agarwal R., Uppal A., Narasimhan C.S., Beldar S.S., Velandy J.	Sharma, P., Thapar Institute of Engineering and Technology, Dept. Electrical and Instrumentation Engineering, Patiala, Punjab, India; Agarwal, R., Thapar Institute of Engineering and Technology, Dept. Electrical and Instrumentation Engineering, Patiala, Punjab, India; Uppal, A., Thapar Institute of Engineering and Technology, Dept. Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., R and D Savita Oil Technologies Limited, Mumbai, India; Beldar, S.S., R and D Savita Oil Technologies Limited, Mumbai, India; Velandy, J., Transformer R and D, Formerly in CG Power and Industrial Solution Limited, Mandideep, Bhopal, Madhya Pradesh, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3124	A case study on PV assisted microgrid using HOMER pro for variation of solar irradiance affecting cost of energy	Mehta S., Basak P.	Mehta, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Basak, P., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3125	Prediction of static pressure drop, velocity and flow rate of higher viscous nature of ester oil in power transformers under oil directed cooling conditions	Velandy J., Garg A., Narasimhan C.S.	Velandy, J., Formerly in CG Power and Industrial Solution Limited, Transformer Technology in R and D, Bhopal, Madhya Pradesh, India; Garg, A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India; Narasimhan, C.S., R and D Savita Oil Technologies Limited, Navi Mumbai, Mumbai, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3126	Investigation of factors affecting nano-dielectric strength under high voltage stress using finite element method	Srivastava V., Rajpurohit B.S., Kaur M.	Srivastava, V., Indian Institute of Technology, School of Computing and Electrical Engineering, Mandi, India; Rajpurohit, B.S., Indian Institute of Technology, School of Computing and Electrical Engineering, Mandi, India; Kaur, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	PIICON 2020 - 9th IEEE Power India International Conference	2020	
3127	An Ensemble Approach for Extractive Text Summarization	Singh P., Chhikara P., Singh J.	Singh, P., Thapar Institute of Engineering Technology, Computer Science Engineering Department, Patiala, India; Chhikara, P., Thapar Institute of Engineering Technology, Computer Science Engineering Department, Patiala, India; Singh, J., Thapar Institute of Engineering Technology, Computer Science Engineering Department, Patiala, India	International Conference on Emerging Trends in Information Technology and Engineering, ic-ETITE 2020	2020	
3128	A mechanistic insight into defluoridation of simulated wastewater applying bio-inspired sodium alginate bead	Thakre P.N., Mukherjee S., Samanta S., Barman S., Halder G.	Thakre, P.N., Chemical Engineering Department, National Institute of Technology Durgapur, M. G. Avenue, Durgapur, West Bengal 713209, India; Mukherjee, S., Chemical Engineering Department, National Institute of Technology Durgapur, M. G. Avenue, Durgapur, West Bengal 713209, India; Samanta, S., Chemical Engineering Department, National Institute of Technology Durgapur, M. G. Avenue, Durgapur, West Bengal 713209, India; Barman, S., Chemical Engineering Department, Thapar University, Patiala, Punjab 147004, India; Halder, G., Chemical Engineering Department, National Institute of Technology Durgapur, M. G. Avenue, Durgapur, West Bengal 713209, India	Applied Water Science	2020	21905487
3129	Effect of process parameters and vc content on structural and mechanical properties of wc-20co nano composites	Kumar D., Singh K.	Kumar, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India	Indian Journal of Engineering and Materials Sciences	2020	9714588
3130	Experimental and Computational Insights into the Water-Mediated Decomposition of N-Sulfonylhydrazones: A Catalyst-Free Synthesis of γ -Keto/Nitrile Sulfones	Goyal S., Budhiraja M., Mandal D., Tyagi V.	Goyal, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Budhiraja, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Asian Journal of Organic Chemistry	2020	21935807
3131	Cluster radioactivity within the collective fragmentation approach using different mass tables and related deformations	Virk N.K., Kumar R., Sharma M.K.	Virk, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	European Physical Journal A	2020	14346001
3132	Using Diaminomethanal as an Entrainer for the Separation of Isopropanol + Water Mixture	Kataria R., Jain T., Singh N., Kushwaha J.P., Sharma B.	Kataria, R., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Jain, T., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sharma, B., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Journal of Solution Chemistry	2020	959782
3133	Innovative approach of in-situ fixed mode dual effect (photo-Fenton and photocatalysis) for ofloxacin degradation	Sharma K., Talwar S., Verma A.K., Choudhury D., Mansouri B.	Sharma, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Mansouri, B., Substance Abuse Prevention Research Center, Health Institute, Kermanshah University of Medical Sciences, Kermanshah, Iran	Korean Journal of Chemical Engineering	2020	2561115
3134	Deep-Learning-Based Small Surface Defect Detection via an Exaggerated Local Variation-Based Generative Adversarial Network	Lian J., Jia W., Zareapoor M., Zheng Y., Luo R., Jain D.K., Kumar N.	Lian, J., School of Information Science and Engineering, Shandong Normal University, Jinan, 250014, China; Jia, W., School of Information Science and Engineering, Shandong Normal University, Jinan, 250014, China; Zareapoor, M., School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, Shanghai, 200240, China; Zheng, Y., School of Information Science and Engineering, Shandong Normal University, Jinan, 250014, China; Luo, R., School of Light Industry Science and Engineering, Qilu University of Technology (Shandong Academy of Science), Jinan, 250353, China; Jain, D.K., Key Laboratory of Intelligent Air-Ground Cooperative Control for Universities, Chongqing College of Automation, Chongqing University of Posts and Telecommunications, Chongqing, 400065, China; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Industrial Informatics	2020	15513203

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3135	Metatranscriptomics: an approach for retrieving novel eukaryotic genes from polluted and related environments	Mukherjee A., Reddy M.S.	Mukherjee, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	3 Biotech	2020	2190572X
3136	Direct shoot organogenesis from leaf explants of Populus deltoides and changes in selected enzymatic activities	Sharma S., Reddy M.S., Kumar A.	Sharma, S., TIFAC-Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Reddy, M.S., TIFAC-Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, A., TIFAC-Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physiology and Molecular Biology of Plants	2020	9715894
3137	Blockchain for Internet of Energy management: Review, solutions, and challenges	Migliani A., Kumar N., Chamola V., Zeadally S.	Migliani, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan and King Abdul Aziz University, Jeddah, Saudi Arabia; Chamola, V., Department of Electronics Engineering, BITS Pilani, Rajasthan, India; Zeadally, S., University of Kentucky, United States	Computer Communications	2020	1403664
3138	Ensembled machine learning framework for drug sensitivity prediction	Sharma A., Rani R.	Sharma, A., CSED, T.I.E.T, Punjab, Patiala, India; Rani, R., CSED, T.I.E.T, Punjab, Patiala, India	IET Systems Biology	2020	17518849
3139	Improvement in prediction of antigenic epitopes using stacked generalisation: An ensemble approach	Khanna D., Rana P.S.	Khanna, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	IET Systems Biology	2020	17518849
3140	In vitro drought tolerance in selected elite clones of Eucalyptus tereticornis Sm.	Singh D., Kaur S., Kumar A.	Singh, D., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Acta Physiologiae Plantarum	2020	1375881
3141	A robust genetic transformation protocol to obtain transgenic shoots of Solanum tuberosum L. cultivar 'Kufri Chipsona 1'	Kaur A., Guleria S., Reddy M.S., Kumar A.	Kaur, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Reddy, M.S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India	Physiology and Molecular Biology of Plants	2020	9715894
3142	An Efficient Accuracy Reconfigurable CLA Adder Designs Using Complementary Logic	Patel S.K., Garg B., Rai S.K.	Patel, S.K., Thapar Institute of Engineering and Technology Patiala, Punjab, India; Garg, B., Thapar Institute of Engineering and Technology Patiala, Punjab, India; Rai, S.K., Thapar Institute of Engineering and Technology Patiala, Punjab, India	Journal of Electronic Testing: Theory and Applications (JETTA)	2020	9238174
3143	Magnetorheological finishing of grooved drum surface and its performance analysis in winding process	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Advanced Manufacturing Technology	2020	2683768
3144	Phase-Bistability and phase-locking patterns with cavity soliton in Vertical-cavity-based fast semiconductor saturable absorber	Pradhan R., Choudhary A., Samanta S.K., Jana S., Datta P.K.	Pradhan, R., Department of Physics, Midnapore College, Midnapore, 721101, India; Choudhary, A., Advanced Technology Development Centre, Indian Institute of Technology, Kharagpur, 721302, India; Samanta, S.K., Department of Physics, Midnapore College, Midnapore, 721101, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Datta, P.K., Department of Physics & Meteorology, IIT Kharagpur 721302, India	Optik	2020	304026
3145	Luminescent studies of Eu doped ZnAl ₂ O ₄ spinels synthesized by low-temperature combustion route	Priya R., Negi A., Singla S., Pandey O.P.	Priya, R., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Negi, A., Department of Nanoscience and Technology, Mount Carmel College, Bengaluru, 560052, India; Singla, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Optik	2020	304026

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3146	Quantifying gesture information in brain hemorrhage patients using probabilistic dual hesitant fuzzy sets with unknown probability information	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Computers and Industrial Engineering	2020	3608352
3147	In-situ simultaneous surface finishing using abrasive flow machining via novel fixture	Baraiya R., Babbar A., Jain V., Gupta D.	Baraiya, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Babbar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Manufacturing Processes	2020	15266125
3148	Amine derivative of triphenyl ether as an optical sensor for the detection of cyanide ions and traces of water in acetonitrile supported with voltammetric studies	Gupta S., Chhibber M., Mittal S.K.	Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Applied Electrochemistry	2020	0021891X
3149	Synthesis of intense red light-emitting β -Ca ₂ SiO ₄ :Eu ³⁺ phosphors for near UV-excited light-emitting diodes utilizing agro-food waste materials	Priya R., Khurana I., Pandey O.P.	Priya, R., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Khurana, I., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2020	9574522
3150	Influence of variable temperature on performance of mixed-MWCNT, MWCNT and SWCNT nanostructures as interconnects for high-performance VLSI-IC design	Jindal P.K., Sandha K.S.	Jindal, P.K., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147001, India; Sandha, K.S., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147001, India	Journal of Materials Science: Materials in Electronics	2020	9574522
3151	Moisture Absorption in Fibre Matrix Laminates for Different Fibre Orientations: Simulation and Experimental Study	Vats S., Bera T.K., Jain D.	Vats, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University, Earlier-Thapar University), Patiala, 147004, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University, Earlier-Thapar University), Patiala, 147004, India; Jain, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University, Earlier-Thapar University), Patiala, 147004, India	Arabian Journal for Science and Engineering	2020	2193567X
3152	Inactivation of E. coli in water employing Fe-TiO ₂ composite incorporating in-situ dual process of photocatalysis and photo-Fenton in fixed-mode	Thakur I., Örmeci B., verma A.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada; verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Water Process Engineering	2020	22147144
3153	Platform tolerant dual-band UHF-RFID tag antenna with enhanced read range using artificial magnetic conductor structures	Bansal A., Sharma S., Khanna R.	Bansal, A., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Khanna, R., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290
3154	Relevance of Skyrme forces in the decay dynamics of ²⁸ Si* at stellar energies	Sharma I., Sharma M.K.	Sharma, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2020	3759474
3155	Application of mixed metal oxide anode for the electro-oxidation/disinfection of synthetic urine: Potential of harnessing molecular hydrogen generation	Singla J., Sangal V.K., Singh A., Verma A.	Singla, J., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India; Singh, A., Research and Development, Consumer Product Division, HSIL Limited, Gurgaon, Haryana, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Environmental Management	2020	3014797
3156	Fusion Dynamics of Compound Nuclei with AC N = 166–202 Investigated Using Different Projectiles on ¹⁵⁴ Sm Target	Sharma I., Kumar R., Sharma M.K.	Sharma, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Brazilian Journal of Physics	2020	1039733
3157	Security of vehicular ad-hoc networks: A comprehensive survey	Malhi A.K., Batra S., Pannu H.S.	Malhi, A.K., CSED Thapar Institute of Engineering and Technology, Patiala, 147004, India; Batra, S., CSED Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., CSED Thapar Institute of Engineering and Technology, Patiala, 147004, India	Computers and Security	2020	1674048

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3158	An intelligent optimization-based traffic information acquirement approach to software-defined networking	Huo L., Jiang D., Lv Z., Singh S.	Huo, L., School of Computer Science and Engineering, Northeastern University, Shenyang, China; Jiang, D., School of Aeronautics and Astronautics, University of Electronic Science and Technology of China, Chengdu, China; Lv, Z., School of Data Science and Software Engineering, Qingdao University, Qingdao, China; Singh, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Computational Intelligence	2020	8247935
3159	Development of polymer abrasive medium for nanofinishing of microholes on surgical stainless steel using abrasive flow finishing process	Singh S., Ravi Sankar M.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ravi Sankar, M., Department of Mechanical Engineering, Indian Institute of Technology Tirupati, Tirupati, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2020	9544054
3160	Non-polynomial framework for static analysis of functionally graded carbon nano-tube reinforced plates	Soni A., Grover N., Bhardwaj G., Singh B.N.	Soni, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala 147004, Punjab, India; Singh, B.N., Department of Aerospace Engineering, Indian Institute of Technology Kharagpur 721302 West Bengal, India	Composite Structures	2020	2638223
3161	Walking Model of Jansen Mechanism-Based Quadraped Robot and Application to Obstacle Avoidance	Singh R., Bera T.K.	Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Arabian Journal for Science and Engineering	2020	2193567X
3162	Super compact ultrathin quad-band with wide angle stability polarization independent metamaterial absorber	Singh H.S.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Microwave and Optical Technology Letters	2020	8952477
3163	An investigation on the phase purity of iron pyrite (FeS ₂) thin films obtained from the sulfurization of hematite (Fe ₂ O ₃) thin films	Srivastava R.P., Ingole S.	Srivastava, R.P., Laboratory for Photovoltaic and Energy Storage Materials, Department of Materials Science and Engineering, Indian Institute of Technology, Kanpur, 208016, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Ingole, S., Laboratory for Photovoltaic and Energy Storage Materials, Department of Materials Science and Engineering, Indian Institute of Technology, Kanpur, 208016, India	Materials Science in Semiconductor Processing	2020	13698001
3164	A new two-lane lattice model by considering predictive effect in traffic flow	Kaur D., Sharma S.	Kaur, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica A: Statistical Mechanics and its Applications	2020	3784371
3165	Complete removal of endocrine disrupting compound and toxic dye by visible light active porous g-C ₃ N ₄ /H-ZSM-5 nanocomposite	Aanchal, Barman S., Basu S.	Aanchal, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemosphere	2020	456535
3166	Arsenic toxicity and its mitigation in ectomycorrhizal fungus Hebeloma cylindrosporum through glutathione biosynthesis	Khullar S., Reddy M.S.	Khullar, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Chemosphere	2020	456535
3167	A curvelet method for numerical solution of partial differential equations	Sharma D., Goyal K., Singla R.K.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Applied Numerical Mathematics	2020	1689274
3168	A novel voting ensemble model for spatial prediction of landslides using GIS	Sachdeva S., Bhatia T., Verma A.K.	Sachdeva, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Remote Sensing	2020	1431161
3169	Analysis of reinforced concrete rectangular slabs with three-sides supported under uniformly distributed load	Gupta S., Singh H.	Gupta, S., Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, India, Jalandhar, India; Singh, H., Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, India, Civil Engineering from the Thapar University, Patiala, India	Asian Journal of Civil Engineering	2020	15630854
3170	Sandpiper optimization algorithm: a novel approach for solving real-life engineering problems	Kaur A., Jain S., Goel S.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Goel, S., Department of Computer Science and Engineering, Bennett University, Noida, India	Applied Intelligence	2020	0924669X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3171	Effect of Sintering Additives on Structural, Magnetic, and Dielectric Properties of Ba ₃ Co ₂ Fe ₂₄ O ₄₁ Ferrite	Singh A.P., Pandey O.P., Sharma P.	Singh, A.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Superconductivity and Novel Magnetism	2020	15571939
3172	Structural and Magnetic Properties of Six-Line Ferrhydrite Nanoparticles	Parmar C., Parmar G.S.	Parmar, C., Thapar Institute of engineering and Technology, Patiala, 147004, India, Lovely Professional University, Phagwara, 144408, India; Parmar, G.S., Thapar Institute of engineering and Technology, Patiala, 147004, India, Lovely Professional University, Phagwara, 144408, India	Journal of Superconductivity and Novel Magnetism	2020	15571939
3173	Correlation coefficients for T-spherical fuzzy sets and their applications in clustering and multi-attribute decision making	Ullah K., Garg H., Mahmood T., Jan N., Ali Z.	Ullah, K., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Jan, N., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan	Soft Computing	2020	14327643
3174	Effective utilization of F-type bottom ash by enhancement of pozzolanic properties	Kishor C., Kumar S., Sharma S., Singh A.K.	Kishor, C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshepur, India; Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
3175	FIS and hybrid ABC-PSO based optimal capacitor placement and sizing for radial distribution networks	Sharma S., Ghosh S.	Sharma, S., Department of Electrical Engineering, Government Polytechnic College, Ambala City, Haryana 134003, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Ambient Intelligence and Humanized Computing	2020	18685137
3176	Computational analysis on disposal of coal slurry at high solid concentrations through slurry pipeline	Singh M.K., Kumar S., Ratha D.	Singh, M.K., Department of Civil Engineering, Thapar University, Patiala, India; Kumar, S., Department of Mechanical Engineering, Thapar University, Patiala, India; Ratha, D., Department of Civil Engineering, Thapar University, Patiala, India	International Journal of Coal Preparation and Utilization	2020	19392699
3177	Composition dependent magnetic and microwave properties of exchange-coupled hard/soft nanocomposite ferrite	Pahwa C., Narang S.B., Sharma P.	Pahwa, C., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2020	9258388
3178	Efficient content retrieval in fog zone using Nano-Caches	Singh S.P., Kumar R., Sharma A.	Singh, S.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India	Concurrency and Computation: Practice and Experience	2020	15320626
3179	Cellulase Immobilization onto Magnetic Halloysite Nanotubes: Enhanced Enzyme Activity and Stability with High Cellulose Saccharification	Sillu D., Agnihotri S.	Sillu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India, TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	ACS Sustainable Chemistry and Engineering	2020	21680485
3180	A Coordinated Framework of DG Allocation and Operating Strategy in Distribution System for Configuration Management under Varying Loading Patterns	Kumar P., Ali I., Thomas M.S., Singh S.	Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Ali, I., Department of Electrical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, India; Thomas, M.S., National Institute of Technology, Tiruchirappalli, Tamilnadu, India; Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Electric Power Components and Systems	2020	15325008
3181	Novel similarity measure-based random forest for fingerprint recognition using dual-tree complex wavelet transform and ring projection	Kaur H., Kaur G., Pannu H.S.	Kaur, H., Department of Mathematics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kaur, G., Department of Computer Science and Engineering, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Pannu, H.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Modern Physics Letters B	2020	2179849
3182	Base-Mediated Reductive Coupling of Indole-3-tosylhydrazone with Thiols/Boronic Acids: Facile Synthesis of 3-(phenylthio)methyl/benzyl Indole Derivatives	Khan I., Sharma A., Kamboj P., Maity B., Tyagi V.	Khan, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kamboj, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	ChemistrySelect	2020	23656549

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3183	Highly reusable visible light active hierarchical porous WO ₃ /SiO ₂ monolith in centimeter length scale for enhanced photocatalytic degradation of toxic pollutants	Sharma S., Basu S.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Separation and Purification Technology	2020	13835866
3184	Photo-induced oxidation and reduction by plasmonic Ag-TiO ₂ nanocomposites under UV/sunlight	Kaur Aulakh M., Sharma R., Pal B., Prakash R.	Kaur Aulakh, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Solar Energy	2020	0038092X
3185	Dynamic pricing techniques for Intelligent Transportation System in smart cities: A systematic review	Saharan S., Bawa S., Kumar N.	Saharan, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bawa, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science & Information Engineering, Asia University, Taiwan	Computer Communications	2020	1403664
3186	Trust management in social Internet of Things: A taxonomy, open issues, and challenges	Chahal R.K., Kumar N., Batra S.	Chahal, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; King Abdul Aziz University, Jeddah, Saudi Arabia; Batra, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computer Communications	2020	1403664
3187	Efficient data management and control over WSNs using SDN-enabled aerial networks	Sayeed M.A., Kumar R., Sharma V.	Sayeed, M.A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan-si, South Korea	International Journal of Communication Systems	2020	10745351
3188	Microstructures and mechanical properties of ternary Ti-Si-Sn alloys	Tiwary C.S., Paliwal M., Kashyap S., Pandey P., Sarkar S., Kundu I., Bhaskar S., Jung I.-H., Chattopadhyay K., Banerjee D.	Tiwary, C.S., Materials Engineering, Indian Institute of Science, Bangalore, India, Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur, West Bengal, India; Paliwal, M., Materials Science and Engineering, Indian Institute of Technology, Gandhinagar, India; Kashyap, S., Materials Engineering, Indian Institute of Science, Bangalore, India, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, P., Materials Engineering, Indian Institute of Science, Bangalore, India; Sarkar, S., Materials Engineering, Indian Institute of Science, Bangalore, India, Department of Materials Engineering, Indian Institute of Technology, Jammu, 181221, India; Kundu, I., Materials Engineering, Indian Institute of Science, Bangalore, India; Bhaskar, S., Materials Engineering, Indian Institute of Science, Bangalore, India; Jung, I.-H., Department of Materials Science and Engineering, Seoul National University, South Korea; Chattopadhyay, K., Materials Engineering, Indian Institute of Science, Bangalore, India; Banerjee, D., Materials Engineering, Indian Institute of Science, Bangalore, India	Materials Science and Engineering: A	2020	9215093
3189	Effective EEG connectivity by sparse vector autoregressive model	Goyal A., Garg R.	Goyal, A., Thapar Institute of Engineering and Technology, India; Garg, R., Indian Institute of Technology, Delhi, India	ACM International Conference Proceeding Series	2020	
3190	Probabilistic data structures for big data analytics: A comprehensive review	Singh A., Garg S., Kaur R., Batra S., Kumar N., Zomaya A.Y.	Singh, A., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University)Patiala (Punjab), India; Garg, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University)Patiala (Punjab), India; Kaur, R., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University)Patiala (Punjab), India; Batra, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University)Patiala (Punjab), India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University)Patiala (Punjab), India; Zomaya, A.Y., Centre for Distributed and High Performance Computing, The University of Sydney, Sydney, Australia	Knowledge-Based Systems	2020	9507051
3191	Structural transition dynamics of biologically active flavins in alkylglucoside surfactants aggregates	Jana R., Maity B., Seth D.	Jana, R., Department of Chemistry, Indian Institute of Technology Patna, Patna, Bihar 801103, India; Maity, B., Thapar Institute of Engineering and Technology, India; Seth, D., Department of Chemistry, Indian Institute of Technology Patna, Patna, Bihar 801103, India	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2020	13861425
3192	Development of microwave processed Ni + 20% SiC based composite clads on AISI-304 steel	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutes, Ludhiana, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IOP Conference Series: Materials Science and Engineering	2020	17578981
3193	Experimental investigation of cutting temperature during drilling of float glass specimen	Sharma A., Jain V.	Sharma, A., Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IOP Conference Series: Materials Science and Engineering	2020	17578981

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3194	Metal matrix composite: a methodological review	Kumar S., Singh R., Hashmi M.S.J.	Kumar, S., Dept. of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Dept. of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Hashmi, M.S.J., School of Mechanical and Manufacturing Engineering, Dublin City University, Dublin, Ireland	Advances in Materials and Processing Technologies	2020	2374068X
3195	Optimizing Fraudulent Firm Prediction Using Ensemble Machine Learning: A Case Study of an External Audit	Hooda N., Bawa S., Rana P.S.	Hooda, N., Computer Science and Engineering Department, Chandigarh University, Mohali, Punjab, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Applied Artificial Intelligence	2020	8839514
3196	Quantitative analysis of microstructure refinement in ultrafine-grained strips of Al6063 fabricated using large strain extrusion machining	Sharma V.K., Kumar V., Singh Joshi R.	Sharma, V.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh Joshi, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Machining Science and Technology	2020	10910344
3197	Energy efficient global optimisation of reactive dividing wall distillation column	Kaur J., Chugh T., Sangal V.K.	Kaur, J., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chugh, T., Department of Computer Science, University of Exeter, Exeter, United Kingdom; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan, India	Indian Chemical Engineer	2020	194506
3198	New generalised Bonferroni mean aggregation operators of complex intuitionistic fuzzy information based on Archimedean t-norm and t-conorm	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India; Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, India	Journal of Experimental and Theoretical Artificial Intelligence	2020	0952813X
3199	Simulation studies on homogeneously catalyzed finishing reactive distillation for ethyl acetate production	Singh D., Gupta R.K., Kumar V.	Singh, D., IOL Chemicals and Pharmaceuticals Ltd., Barnala, Punjab, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Chemical Engineering, Indian Institute of Technology (ISM), Dhanbad, India	Chemical Engineering Communications	2020	986445
3200	Production of syngas from agricultural residue as a renewable fuel and its sustainable use in dual-fuel compression ignition engine to investigate performance, emission, and noise characteristics	Singh J., Singh S., Mohapatra S.K.	Singh, J., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India; Singh, S., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar University, Patiala, Punjab, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
3201	Erosion tribo performance of HVOF deposited WC-10Co-4Cr and WC-10Co-4Cr + 2%Y2O3 micron layers on pump impeller steel	Singh G., Kumar S., Sehgal S.S.	Singh, G., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sehgal, S.S., Department of Mechanical Engineering, Chandigarh University, Mohali, India	Particulate Science and Technology	2020	2726351
3202	Chemical treatment of low-grade coal using Taguchi approach	Singh J.P., Kumar S., Mohapatra S.K.	Singh, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mohapatra, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Particulate Science and Technology	2020	2726351
3203	Improved Reduced-Order Modeling Using Clustering Method with Dominant Pole Retention	Tiwari S.K., Kaur G.	Tiwari, S.K., Department of Electrical & Instrumentation Engineering, Thapar University, Patiala, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar University, Patiala, India	IETE Journal of Research	2020	3772063
3204	Process optimization of Tung oil methyl ester (Vernicia fordii) using the Taguchi approach, and its fuel characterization	Gadhve S.L., Ragit S.S.	Gadhve, S.L., JIT University Rajasthan, India; Ragit, S.S., JIT University, Thapar University, Patiala, 3441, India	Biofuels	2020	17597269
3205	Computational approach to understand fungal secondary metabolites and responsible biological molecules	Singh B., Mohanty D., Upadhyay A.K.	Singh, B., School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, 144411, India; Mohanty, D., Department of Pharmaceutics, School of Pharmacy, Anurag Group of Institutions, Hyderabad, 500088, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	New and Future Developments in Microbial Biotechnology and Bioengineering: Recent Advances in Application of Fungi and Fungal Metabolites: Biotechnological Interventions and Futuristic Approaches	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3206	Nanofinishing of External Cylindrical Surface of C60 Steel Using Rotating Core-Based Magnetorheological Finishing Process	Singh M., Singh A., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3207	Investigation on Surface Roughness During Finishing of Al-6061 Hybrid Composites Tube with Traces of Rare Earth Metals Using Magnetic Abrasive Flow Machining	Sharma V.K., Kumar V., Joshi R.S.	Sharma, V.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Department of Mechanical Engineering, Faculty of Meerut Institute of Engineering & Technology, Meerut, 250005, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3208	Parametric Study of a Newly Developed Magnetorheological Honing Process	Bedi T.S., Singh A.K.	Bedi, T.S., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, A.K., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3209	Investigation of Weld Bead Shape Parameters in Relation to Heat Input During Submerged Arc Welding	Sharma S.K., Rathod D.W., Payal H., Maheshwari S.	Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Payal, H., Department of Mechanical Engineering, Sharda University, Greater Noida, 201310, India; Maheshwari, S., Division of Manufacturing Processes and Automation Engineering, Netaji Subhas University of Technology, New Delhi, 110078, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3210	Investigations for Barium Titanate and Graphene Reinforced PVDF Matrix for 4D Applications	Sharma R., Singh R., Batish A.	Sharma, R., Thapar Institute of Engineering & Technology, Patiala, India; Singh, R., Guru Nanak Dev Engineering College, Ludhiana, India; Batish, A., Thapar Institute of Engineering & Technology, Patiala, India	Encyclopedia of Renewable and Sustainable Materials: Volume 1-5	2020	
3211	Quantitative Genetics and the Genetic Basis for Polyphenolics Trait in Plants	Sharma G., Sonia, Upadhyay A.K.	Sharma, G., ICAR-Accredited School of Agriculture, Lovely Professional University, Phagwara, India; Sonia, School of Pharmaceutical and Healthcare Sciences, CT University, Ludhiana, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Plant Phenolics in Sustainable Agriculture: Volume 1	2020	
3212	Future Prospects of Fruit and Vegetable-Based Functional Foods	Qadri O.S., Younis K., Yasin T.	Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Younis, K., Department of Bioengineering, Integral University, Lucknow, India; Yasin, T., Institute of Home Science, University of Kashmir, Srinagar, India	Functional Food Products and Sustainable Health	2020	
3213	Entrepreneurial Behavior, Attitude, and Framework Conditions: An Analysis of Efficiency, Factor, and Innovation-Driven Three Asian Economies	Kiran R., Goyal A.	Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Entrepreneurship and Regional Development: Analyzing Growth Models in Emerging Markets	2020	
3214	Significance of Material Compatibility for Ester Oil and Nanofluids as an Alternative Liquid Insulation for Transformer Applications	Garg A., Siddique Z.B., Basak P.	Garg, A., Electrical & Instrumentation Department, Thapar Institute of Engineering & Technology, Patiala, India; Siddique, Z.B., Electrical & Instrumentation Department, Thapar Institute of Engineering & Technology, Patiala, India; Basak, P., Electrical & Instrumentation Department, Thapar Institute of Engineering & Technology, Patiala, India	IET Conference Proceedings	2020	27324494
3215	Biomaterials and Fabrication Methods of Scaffolds for Tissue Engineering Applications	Babbar A., Jain V., Gupta D., Singh S., Prakash C., Pruncu C.	Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., Department of Mechanical Engineering, Lovely Professional University, Phagwara, India, Department of Mechanical Engineering, National University of Singapore, Singapore, Singapore; Prakash, C., Department of Mechanical Engineering, Lovely Professional University, Phagwara, India; Pruncu, C., Department of Mechanical Engineering, Imperial College of London, London, United Kingdom	Materials Horizons: From Nature to Nanomaterials	2020	25245384
3216	OMICS IN CANCER: FROM DIAGNOSTICS TO THERAPEUTICS	Maurya S., Chandel V., Raj S., Upadhyay A., Tandon C., Kumar D.	Maurya, S., Amity Institute of Molecular Medicine and Stem Cell Research (AIMMSCR), Amity University Uttar Pradesh, Sector 125, Noida, 201313, India; Chandel, V., Amity Institute of Molecular Medicine and Stem Cell Research (AIMMSCR), Amity University Uttar Pradesh, Sector 125, Noida, 201313, India; Raj, S., Amity Institute of Molecular Medicine and Stem Cell Research (AIMMSCR), Amity University Uttar Pradesh, Sector 125, Noida, 201313, India; Upadhyay, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Tandon, C., Amity Institute of Biotechnology, Amity University Uttar Pradesh, Sector 125, Noida, 201313, India; Kumar, D., Amity Institute of Molecular Medicine and Stem Cell Research (AIMMSCR), Amity University Uttar Pradesh, Sector 125, Noida, 201313, India	Recent Trends in 'Computational Omics': Concepts and Methodology	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3217	An OpenSim guided tour in machine learning for e-health applications	Verma M., Dawar M., Rana P.S., Jindal N., Singh H.	Verma, M., Computer Science and Engineering department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Dawar, M., Computer Science and Engineering department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Rana, P.S., Computer Science and Engineering department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, H., Computer Science and Engineering department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Intelligent Data Security Solutions for e-Health Applications	2020	
3218	Progressive advancements in security challenges, issues, and solutions in e-health systems	Gothwal R., Tiwari S., Shivani S., Khurana M.	Gothwal, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Shivani, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Khurana, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Intelligent Data Security Solutions for e-Health Applications	2020	
3219	Effectiveness of Normalization over Processing of Textual Data Using Hybrid Approach Sentiment Analysis	Johal S.K., Mohana R.	Johal, S.K., The Department of CSED, Thapar Institute of Engineering and Technology, Jaypee University of Information Technology (JUIT), Waknaghat, India; Mohana, R., The Department of CSE, Jaypee University of Information Technology (JUIT), Waknaghat, India	International Journal of Grid and High Performance Computing	2020	19380259
3220	e-Device for the Protection of Agricultural Land from Elephant Attacks in Odisha: A Review	Badotra S., Panda S.N., Bath K.S., Pattnaik P.K., Rani R., Tanwar S., Sundas A.	Badotra, S., Chitkara University Institute of Engineering and Technology, Punjab, India; Panda, S.N., Chitkara University Institute of Engineering and Technology, Punjab, India; Bath, K.S., Punjab State Council for Science and Technology, Chandigarh, India; Pattnaik, P.K., KIIT University, Bhubaneswar, India; Rani, R., Thapar University, Patiala, India; Tanwar, S., Chitkara University Institute of Engineering and Technology, Punjab, India; Sundas, A., Chitkara University Institute of Engineering and Technology, Punjab, India	Studies in Big Data	2020	21976503
3221	GENERATION OF FAMILY OF PYTHAGOREAN N-TUPLES FROM A SEED PYTHAGOREAN N-TUPLE	Wadhawan N.K., Wadhawan P.	Wadhawan, N.K., Civil Servant, Indian Administrative Services (Retired), Chandigarh, India; Wadhawan, P., Thapar Institute Of Engineering And Technology, Patiala, India	Mathematics Student	2020	255742
3222	A Novel Magnetorheological Grinding Process for Finishing the Internal Cylindrical Surfaces	Aggarwal A., Singh A.K.	Aggarwal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3223	The COVID-19 paradox: Impact on India and developed nations of the world	Kundu A., Basu S., Shetti N.P., Malik A.K., Aminabhavi T.M.	Kundu, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Karnataka, Hubballi, 580 027, India; Malik, A.K., Department of Livestock Products Technology, College of Veterinary Science, Lala Lajpat Rai University of Veterinary & Animal Sciences, Haryana, Hisar, 125004, India; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Karnataka, Dharwad, 580 002, India	Sensors International	2020	26663511
3224	In vitro propagation of rhynchostylis retusa (L.) blume through immature seed culture	Lal A., Pant M., Palni L.M.S., Kumar A.	Lal, A., Department of Biotechnology, Graphic Era (Deemed to be University), Dehradun, Uttarakhand, India; Pant, M., Department of Life Sciences, Graphic Era (Deemed to be University), Dehradun, Uttarakhand, India; Palni, L.M.S., Department of Biotechnology, Graphic Era (Deemed to be University), Dehradun, Uttarakhand, India; Kumar, A., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India	Ecology, Environment and Conservation	2020	0971765X
3225	Invasion of novel corona virus (COVID-19) in Indian territory	Shetti N.P., Srivastava R.K., Sharma S., Basu S., Aminabhavi T.M.	Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Karnataka, Hubballi, 580030, India; Srivastava, R.K., Department of Biotechnology, GIT, Gandhi Institute of Technology and Management (GITAM), Deemed to Be University, A.P, Visakhapatnam, 530045, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, 580-007, India	Sensors International	2020	26663511
3226	Power quality issues, modeling, and control techniques	Singh A., Badoni M.	Singh, A., Electrical Engineering Department, Delhi Technological University, Delhi, India; Badoni, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Advances in Smart Grid Power System: Network, Control and Security	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3227	Indians vs.COVID-19: The scenario of mental health	Sharma S., Kundu A., Basu S., Shetti N.P., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kundu, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka580 027, India; Aminabhavi, T.M., Department of Pharmaceutics, SET's College of Pharmacy, Dharwad, Karnataka580 002, India	Sensors International	2020	26663511
3228	A Compact Ultrathin Metamaterial Absorber for C, K and Ka Band Microwave Frequency Regime	Puri V., Singh H.S.	Puri, V., Thapar Institute Of Engineering And Technology, Department Of Electronics And Communication Engineering, Punjab, Patiala, 147 004, India; Singh, H.S., Thapar Institute Of Engineering And Technology, Department Of Electronics And Communication Engineering, Punjab, Patiala, 147 004, India	2020 IEEE MTT-S Latin America Microwave Conference, LAMC 2020	2020	
3229	Smart grid power system	Gupta N., Kaur N., Jain S.K., Joshal K.S.	Gupta, N., Department of Electrical Engineering, National Institute of Technology, Jammu and Kashmir, Srinagar, India; Kaur, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Joshal, K.S., Department of Electrical Engineering, National Institute of Technology, Jammu and Kashmir, Srinagar, India	Advances in Smart Grid Power System: Network, Control and Security	2020	
3230	TIET at CLEF CheckThat! 2020: Verified Claim Retrieval	Shukla U., Sharma A.	Shukla, U., Thapar Institute of Engineering and Technology, India; Sharma, A., Thapar Institute of Engineering and Technology, India	CEUR Workshop Proceedings	2020	16130073
3231	CO2 sequestration on cement	Goyal S., Sharma D.	Goyal, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Start-Up Creation: The Smart Eco-efficient Built Environment, Second Edition	2020	
3232	Performance of concrete based on recycled brick aggregate	Gayarre F.L., González J.S., Pérez C.L.-C., Serrano López M.A., Siddique R.	Gayarre, F.L., University of Oviedo, Department of Construction and Manufacturing Engineering, Asturias, Spain; González, J.S., University of Oviedo, Department of Construction and Manufacturing Engineering, Asturias, Spain; Pérez, C.L.-C., University of Oviedo, Department of Construction and Manufacturing Engineering, Asturias, Spain; Serrano López, M.A., University of Oviedo, Department of Construction and Manufacturing Engineering, Asturias, Spain; Siddique, R., Thapar University, Department of Civil Engineering, Patiala, India	Advances in Construction and Demolition Waste Recycling: Management, Processing and Environmental Assessment	2020	
3233	A review on process planning strategies and challenges of WAAM	Singh S., Sharma S.K., Rathod D.W.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Today: Proceedings	2020	22147853
3234	Preface	Tanwar S., Tyagi S., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, Gujarat, India, Jan Wyzkowski University, Polkowice, Poland, University of Pitesti, Pitesti, Romania; Tyagi, S., Jan Wyzkowski University, Polkowice, Poland, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Security and Privacy of Electronic Healthcare Records	2020	
3235	Introduction	Tanwar S., Gupta R., Kumari A., Tyagi S., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, Gujarat, India, Jan Wyzkowski University, Polkowice, Poland, University of Pitesti, Pitesti, Romania; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, Gujarat, India; Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, Gujarat, India; Tyagi, S., Jan Wyzkowski University, Polkowice, Poland, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Security and Privacy of Electronic Healthcare Records	2020	
3236	Conclusion	Tanwar S., Tyagi S., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, Gujarat, India, Jan Wyzkowski University, Polkowice, Poland, University of Pitesti, Pitesti, Romania; Tyagi, S., Jan Wyzkowski University, Polkowice, Poland, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Security and Privacy of Electronic Healthcare Records	2020	
3237	Security and privacy of electronic healthcare records: Concepts, paradigms and solutions	Tanwar S., Tyagi S., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, Gujarat, India, Jan Wyzkowski University, Polkowice, Poland, University of Pitesti, Pitesti, Romania; Tyagi, S., Jan Wyzkowski University, Polkowice, Poland, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Security and Privacy of Electronic Healthcare Records	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3238	Effect of alternate expansion and contraction of width on the river morphology	Karmaker T., Ratha D.N., Singh H., Singh J., Mangla J., Gupta J., Singh J., Singh K., Kaswan K., Chauhan K.	Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ratha, D.N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mangla, J., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, J., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaswan, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chauhan, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	River Flow 2020 - Proceedings of the 10th Conference on Fluvial Hydraulics	2020	
3239	Modelling and Analysis of Change in Shape of sintered Cu-TiC tool tip during Electrical Discharge Machining process	Walia A.S., Srivastava V., Jain V., Garg M.	Walia, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Garg, M., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3240	Innovative ranking and conversion approaches to handle impreciseness in transportation	Kumar Srivastava P., Bisht D.C.S., Garg H.	Kumar Srivastava, P., Jaypee Institute of Information Technology, Noida, 201304, India; Bisht, D.C.S., Jaypee Institute of Information Technology, Noida, 201304, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala, Punjab, India	Journal of Multiple-Valued Logic and Soft Computing	2020	15423980
3241	Hybrid feature selection-based feature fusion for liver disease classification on ultrasound images	Bharti P., Mittal D.	Bharti, P., Department of Electrical and Instrumental Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mittal, D., Department of Electrical and Instrumental Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Advances in Computational Techniques for Biomedical Image Analysis: Methods and Applications	2020	
3242	Reinforcement Learning	Bhatia A.S., Saggi M.K., Sundas A., Ashta J.	Bhatia, A.S., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Saggi, M.K., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sundas, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Ashta, J., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	Machine Learning and Big Data: Concepts, Algorithms, Tools and Applications	2020	
3243	Application of variational mode decomposition in automated migraine disease diagnosis	Jindal K., Upadhyay R., Vijay M., Sharma A., Gupta K., Gupta J., Dube A.	Jindal, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Upadhyay, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Vijay, M., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Sharma, A., Department of Neurology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Gupta, K., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Gupta, J., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India; Dube, A., Department of Physiology, S.M.S. Medical College and Attached Hospitals, Jaipur, India	International Journal of Healthcare Technology and Management	2020	13682156
3244	Industrial AI and predictive analytics for smart manufacturing systems	Lee J., Singh J., Azamfar M., Pandhare V.	Lee, J., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, United States; Singh, J., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, United States; Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Azamfar, M., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, United States; Pandhare, V., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, United States	Smart Manufacturing: Concepts and Methods	2020	
3245	Spectral characteristics upon harvesting plasmonic hot electrons at the Ag/ZnO heterostructures	Rahman D.S., Pal S.K., Singha S.S., Kundu S., Basu S., Ghosh S.K.	Rahman, D.S., Department of Chemistry, Assam University, Silchar, 788011, India; Pal, S.K., Department of Chemistry, Assam University, Silchar, 788011, India; Singha, S.S., Department of Physics, Brahmananda Keshab Chandra College, 111/2 B. T. Road, Kolkata, 700108, India; Kundu, S., Sensor and Actuator Division, CSIR-Central Glass and Ceramic Research Institute, 196 Raja S.C. MULLICK Road, Kolkata, 700 032, India; Basu, S., School of Chemistry and Biochemistry, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ghosh, S.K., Department of Chemistry, Assam University, Silchar, 788011, India	Materials Advances	2020	26335409
3246	Dietary Fiber as a Functional Food	Jahan K., Qadri O.S., Younis K.	Jahan, K., Department of Bioengineering, Integral University, Lucknow, India; Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Younis, K., Department of Bioengineering, Integral University, Lucknow, India	Functional Food Products and Sustainable Health	2020	

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3247	A watermarking technique for hyperspectral images using DWT and hessenberg matrix	Kasana G.	Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	40th Asian Conference on Remote Sensing, ACRS 2019: Progress of Remote Sensing Technology for Smart Future	2020	
3248	Hyperspectral image classification using spectral LSTM networks	Singh S., Kasana S.S.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	40th Asian Conference on Remote Sensing, ACRS 2019: Progress of Remote Sensing Technology for Smart Future	2020	
3249	Optimization of solid particle erosion behaviour of waste marble dust filled glass fiber polymer composite using Taguchi approach	Choudhary M., Sharma A., Agarwal P., Bhardwaj A., Patnaik A.	Choudhary, M., Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur, 302017, India; Sharma, A., Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur, 302017, India; Agarwal, P., Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur, 302017, India, Department of Mechanical Engineering, Amity University Rajasthan, Jaipur, 302006, India; Bhardwaj, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patnaik, A., Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur, 302017, India	Materials Today: Proceedings	2020	22147853
3250	Spectroscopic study on the interaction of Co2+with citrate-Mn3O4: Towards the development of nanotherapy against cobalt toxicity	Mondal S., Adhikari A., Singh M., Ghosh R., Goswami M., Biswas P., Pal S.K.	Mondal, S., Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Adhikari, A., Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Singh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Ghosh, R., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, West Bengal 700106, India; Goswami, M., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, West Bengal 700106, India; Biswas, P., Department of Microbiology, St. Xavier's College, 30, Mother Teresa Sarani, Kolkata, 700016, India; Pal, S.K., Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India, Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, West Bengal 700106, India	Materials Today: Proceedings	2020	22147853
3251	Wavelet and kernel dimensional reduction on arrhythmia classification of ECG signals	Singh R., Rajpal N., Mehta R.	Singh, R., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Rajpal, N., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Mehta, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	EAI Endorsed Transactions on Scalable Information Systems	2020	20329407
3252	A modified PFC rectifier based EV charger employing CC/CV mode of charging	Tiwary A., Singh M.	Tiwary, A., Thapar Institute of Engineering and Technology, Punjab, 147002, India; Singh, M., Thapar Institute of Engineering and Technology, Punjab, 147002, India	IFAC-PapersOnLine	2020	24058963
3253	DECISION MAKING ANALYSIS BASED ON SINE TRIGONOMETRIC OPERATIONAL LAWS FOR SINGLE-VALUED NEUTROSOPHIC SETS AND THEIR APPLICATIONS	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India	Applied and Computational Mathematics	2020	16833511
3254	Computational study on effect of Mahua natural surfactant on the flow properties of heavy crude oil in a 90° bend	Kumar P., Singh J.	Kumar, P., Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi, Delhi, 110016, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Today: Proceedings	2020	22147853
3255	Artificial intelligent approach for process parameters modeling of friction stir processing	Rathore S., Raj Singh R.K., Khan K.L.A.	Rathore, S., KIET Group of Institutions, Ghaziabad, India; Raj Singh, R.K., Thapar Institute of Engineering and Technology, Patiala, India; Khan, K.L.A., KIET Group of Institutions, Ghaziabad, India	Materials Today: Proceedings	2020	22147853
3256	3D modeling and experimental investigation for tool deflection in end mill cutting of AISI 1045	Thakur A., Singh G., Minhas N., Sharma V., Bansal A.	Thakur, A., Department of Industrial and Production Engineering, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Singh, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Minhas, N., Department of Industrial and Production Engineering, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Sharma, V., Department of Industrial and Production Engineering, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Bansal, A., Mechanical Engineering Department, SLIET, Longowal, Sangrur, Punjab, India	Materials Today: Proceedings	2020	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3257	The value proposition of food delivery apps from the perspective of theory of consumption value	Kaur P., Dhir A., Talwar S., Ghuman K.	Kaur, P., Department of Psychosocial Science, University of Bergen, Bergen, Norway and Optentia Research Focus Area, North-West University, Potchefstroom, South Africa; Dhir, A., Department of Management, School of Business and Law, University of Agder, Norwegian School of Hotel Management, University of Stavanger, North-West University, Stavanger, Potchefstroom, Norway; Talwar, S., K J Somaiya Institute of Management, Somaiya Vidyavihar University, Mumbai, India; Ghuman, K., LM Thapar School of Management, Dera-Bassi, India	International Journal of Contemporary Hospitality Management	2020	9596119
3258	Investigating allocative efficiency, cost efficiency, technical efficiency using stochastic frontier analysis (Sfa) of groundnut farm households: Evidence from a case in India	Singh P.K., Bhatt R.K., Kiran R.	Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhatt, R.K., Department of Economics, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Custos e Agronegocio	2020	18082882
3259	Laboratory investigations and performance evaluation of stone matrix asphalt as a wearing course using three different fibers	Jain S., Singh H., Chopra T.	Jain, S., Department of civil engineering, Thapar University, Patiala, India; Singh, H., Standard & Research Zone, MoRT&H-IT Roorkee, Delhi, India; Chopra, T., Department of civil engineering, Thapar University, Patiala, India	International Journal of Applied Science and Engineering	2020	17272394
3260	Study and Understanding the Significance of Multilayer-ELM Feature Space	Roul R.K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2020	3029743
3261	i-Fence: A Spatio-Temporal Context-Aware Geofencing Framework for Triggering Impulse Decisions	Singh J., Mittal A., Mittal R., Singh K., Malik V.	Singh, J., Institute of Engineering and Technology, Chitkara University, Punjab, India; Mittal, A., Chitkara Business School, Chitkara University, Punjab, India; Mittal, R., Institute of Engineering and Technology, Chitkara University, Punjab, India; Singh, K., Department of CSE, Thapar University, Punjab, India; Malik, V., Institute of Engineering and Technology, Chitkara University, Punjab, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2020	3029743
3262	Development of rapid micropropagation protocol for germplasm conservation of two orchid species - Aerides multiflora Roxb. and Rhynchostylis retusa (L.) Blume	Lal A., Pant M., Palni L.M.S., Kumar A.	Lal, A., Department of Biotechnology, Graphic Era, Deemed to be University, India; Pant, M., Department of Life Sciences, Graphic Era Deemed to be University, India; Palni, L.M.S., Department of Biotechnology, Graphic Era, Deemed to be University, India; Kumar, A., Thapar Institute of Engineering & Technology, Deemed to be University, India	Asian Journal of Conservation Biology	2020	22787666
3263	Development of circular loop frequency selective surface using 3-d printing technique	Singh D., Jain A., Yadav R.P.	Singh, D., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Jain, A., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Yadav, R.P., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India	Progress In Electromagnetics Research M	2020	19378726
3264	Nature-Inspired Metaheuristics for Two-Agent Scheduling with Due Date and Release Time	Li H., Gajpal Y., Surti C., Cai D., Bhardwaj A.K.	Li, H., Department of Supply Chain Management, I.H. Asper School of Business, University of Manitoba, Winnipeg, MB R3T 5V4, Canada; Gajpal, Y., Department of Supply Chain Management, I.H. Asper School of Business, University of Manitoba, Winnipeg, MB R3T 5V4, Canada; Surti, C., Department of Information System, Analytics and Supply Chain Management College of Business, Rider University, 2 083 Lawrenceville Rd, Lawrenceville, NJ 08648, United States; Cai, D., School of Finance, Southwestern University of Finance and Economics, Chengdu, Sichuan, 610000, China; Bhardwaj, A.K., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Patiala, Punjab, India	Complexity	2020	10762787
3265	Artificial Neural Networks Based Solar Radiation Estimation using Backpropagation Algorithm	Choudhary A., Pandey D., Bhardwaj S.	Choudhary, A., Electronics and Communication Engineering Department, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh 226010, India; Pandey, D., Electronics and Communication Engineering Department, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh 226010, India; Bhardwaj, S., Electronics and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, Punjab 147001, India	International Journal of Renewable Energy Research	2020	13090127
3266	E-learning during COVID-19 outbreak: Cloud computing adoption in indian public universities	Bhardwaj A.K., Garg L., Garg A., Gajpal Y.	Bhardwaj, A.K., L. M. Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi, Punjab, India; Garg, L., Faculty of Information and Communication Technology, University of Malta, Msida, MSD2080, Malta; Garg, A., L. M. Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi, Punjab, India; Gajpal, Y., Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada	Computers, Materials and Continua	2020	15462218
3267	Direct Photo-Thermal Energy Storage Using Nanoparticles Laden Phase Change Materials	Moudgil D., Khullar V.	Moudgil, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab, 147004, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab, 147004, India	Energy, Environment, and Sustainability	2020	25228366

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3268	An interesting approach to the existence of coupled fixed point	Konar P., Chandok S., Bhandari S.K., De La Sen M.	Konar, P., Department of Mathematics, Amity University, Kolkata, West Bengal 700135, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147-004, India; Bhandari, S.K., Department of Mathematics, Bajkul Milani Mahavidyalaya, Bajkul, West Bengal 721655, India; De La Sen, M., Institute of Research and Development of Processes IIDP, University of the Basque Country, Campus of Leioa, PO Box 48940, Leioa, Spain	AIMS Mathematics	2020	24736988
3269	Use of Library and Library Resources in University Libraries of Northern India: A Comparative Study between Research Scholars and Faculty Members	Singh H., Mahajan P.	Singh, H., Central Library Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mahajan, P., Panjab University, Chandigarh, India	Library Philosophy and Practice	2020	15220222
3270	Cyclic picard operator and simulation type functions	Chandok S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Novi Sad Journal of Mathematics	2020	14505444
3271	Determinants of academic stress amongst engineering students	Joshi A., Kiran R.	Joshi, A., Department of Electrical Engineering, Thapar Polytechnic College, Punjab, 147004, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, India	Work	2020	10519815
3272	Understanding the impact of human resource practices on employee competencies: evidence from Indian food processing industry	Kaur S., Kaur G.	Kaur, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Employee Relations	2020	1425455
3273	Examining critical success factors augmenting quality of higher education institutes in India. A SEM_PLS approach	Pandita A., Kiran R.	Pandita, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Applied Research in Higher Education	2020	20507003
3274	ANTI-STAPHYLOCOCCAL POTENTIAL OF FUSARIUM SP: FUNGAL ENDOPHYTE ISOLATED FROM RAUWOLFIA SERPENTINA	Gambhir L., Kapoor N., Saxena S.	Gambhir, L., Department of Biotechnology, School of Basic & Applied Sciences, Shri Guru Ram Rai University, Dehradun, Uttarakhand 248001, India; Kapoor, N., School of Applied Sciences, Suresh Gyan Vihar University, Jaipur, Rajasthan 302017, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Microbiology, Biotechnology and Food Sciences	2020	13385178
3275	Reducing Waste in Circular Economy	Goyal S.	Goyal, S., LM Thapar School of Management, India, Institute for Competitiveness, Gurgaon, Gurgaon, India	Encyclopedia of Renewable and Sustainable Materials: Volume 1-5	2020	
3276	IoT vulnerability assessment for sustainable computing: Threats, current solutions, and open challenges	Anand P., Singh Y., Selwal A., Alazab M., Tanwar S., Kumar N.	Anand, P., Department of Computer Science and Information Technology, Central University of Jammu, Jammu, 181143, India; Singh, Y., Department of Computer Science and Information Technology, Central University of Jammu, Jammu, 181143, India; Selwal, A., Department of Computer Science and Information Technology, Central University of Jammu, Jammu, 181143, India; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmadabad, 382481, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, 80200, Saudi Arabia	IEEE Access	2020	21693536
3277	Privacy-protection scheme based on sanitizable signature for smart mobile medical scenarios	Xu Z., Luo M., Kumar N., Vijayakumar P., Li L.	Xu, Z., College of Computer, Hubei University of Education, Wuhan, China; Luo, M., School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Li, L., School of Cyber Science and Engineering, Wuhan University, Wuhan, China	Wireless Communications and Mobile Computing	2020	15308669
3278	Comparative study of micro-scale size effects on mechanical coupling factors and SH-wave propagation in functionally graded piezoelectric/piezomagnetic structures	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Waves in Random and Complex Media	2020	17455030
3279	Consumers' Attitudes Toward Functional Foods: A Review	Bakshi A., Chhabra S., Kaur R.	Bakshi, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chhabra, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Current Topics in Nutraceutical Research	2020	15407535
3280	CBDR: An efficient storage repository for cultural big data	Sharma S., Bawa S.	Sharma, S., Thapar Institute of Engineering and Technology, India; Bawa, S., Thapar Institute of Engineering and Technology, India	Digital Scholarship in the Humanities	2020	20557671

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3281	Multivalued Problems, Orthogonal Mappings, and Fractional Integro-Differential Equation	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Mathematics	2020	23144629
3282	Green synthesis of silver nanoparticles using plants originating in tropical areas of vietnam for biological applications	Sehnal K., Ly P.T., Uhlirova D., Dung M.L., Stankova M., Xuan T.T., Vsetickova M., Anh N.N., Hosnedlova B., Kepinska M., Ruttkay-Nedecky B., Bach D.N., Milnerowicz H., Prakash T., Hung N.T., Nguyen H.V., Kizek R.	Sehnal, K., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech Republic, Department of Research and Development, Prevention Medicals s.r.o., Studenka-Butovice, Czech Republic, Department of Human Pharmacology and Toxicology, University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic; Ly, P.T., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Uhlirova, D., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech Republic, Department of Research and Development, Prevention Medicals s.r.o., Studenka-Butovice, Czech Republic; Dung, M.L., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Stankova, M., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech Republic, Department of Research and Development, Prevention Medicals s.r.o., Studenka-Butovice, Czech Republic; Xuan, T.T., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Vsetickova, M., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech Republic, Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Anh, N.N., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Hosnedlova, B., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech Republic, Department of Research and Development, Prevention Medicals s.r.o., Studenka-Butovice, Czech Republic, Department of Food and Feed Safety, Veterinary Research Institute, Brno, Czech Republic; Kepinska, M., Department of Biomedical and Environmental Analyses, Faculty of Pharmacy, Division of Laboratory Diagnostics, Wroclaw Medical University, Wroclaw, Poland; Ruttkay-Nedecky, B., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech Republic, Department of Human Pharmacology and Toxicology, University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic; Bach, D.N., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Milnerowicz, H., Department of Biomedical and Environmental Analyses, Faculty of Pharmacy, Division of Laboratory Diagnostics, Wroclaw Medical University, Wroclaw, Poland; Prakash, T., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Hung, N.T., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Nguyen, H.V., Research Center for Environmental Monitoring and Modelling, VNU University of Science, Thanh Xuan district, Hanoi, Viet Nam; Kizek, R., Department of Viticulture and Enology, Faculty of Horticulture, Mendel University in Brno, Lednice, Czech	NANOCON Conference Proceedings - International Conference on Nanomaterials	2020	2694930X
3283	Isolation improvement of compact lte mimo terminal using combination of neutralisation line and modified ground structure	Singh H.S., Shubair R.M.	Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Shubair, R.M., Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, MA, United States	Journal of the National Science Foundation of Sri Lanka	2020	13914588
3284	Complex order $\text{P}\alpha + \text{j}\beta\text{D}\gamma + \text{j}\delta$ design for surface roughness control in machining CNT Al-Mg hybrid composites	Sekhar R., Singh T.P., Shah P.	Sekhar, R., Symbiosis Institute of Technology (SIT), Symbiosis International (Deemed University) (SIU), Pune, 147001, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 111045, India; Shah, P., Symbiosis Institute of Technology (SIT), Symbiosis International (Deemed University) (SIU), Pune, 147001, India	Advances in Science, Technology and Engineering Systems	2020	24156698
3285	Preparation and Optoelectronic Properties of Iridium (III) Complexes Based on 1,3,4-Oxadiazole and β -diketones	Kumar A., Kumar A., Verma A., Singh D.P., Mudila H., Kumar D., Srivastava R.	Kumar, A., Department of Chemistry, Lovely Professional University, Phagwara, 144411, India; Kumar, A., School of Engineering and Technology, Central University of Haryana, Jant-Pali, Mahendergarh, Haryana 123031, India; Verma, A., Advanced Research and Studies (Materials and Devices), Amity Institute, Amity University, Noida, Uttar Pradesh 201303, India; Singh, D.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mudila, H., Department of Chemistry, Lovely Professional University, Phagwara, 144411, India; Kumar, D., Department of Chemistry, Lovely Professional University, Phagwara, 144411, India; Srivastava, R., Center for Organic Electronics, OLED Lab, Physics of Energy Harvesting Division, National Physical Laboratory, New Delhi, 110012, India	Springer Proceedings in Physics	2020	9308989
3286	Multivalued weak cyclic δ -contraction mappings	Konar P., Bhandari S.K., Chandok S., Mukheimer A.	Konar, P., Department of Mathematics, Amity University, Kadampukur, 24PGS(S), Kolkata, West Bengal 700135, India; Bhandari, S.K., Department of Mathematics, Bajkul Milani Mahavidyalaya, P.O- Kismat Bajkul, Dist - Purba Medinipur, Bajkul, West Bengal 721655, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147-004, India; Mukheimer, A., Department of Mathematics and General Sciences, Prince Sultan University, Riyadh, 11586, Saudi Arabia	Journal of Inequalities and Applications	2020	10255834
3287	A Pragmatic Framework for Predicting Change Prone Files Using Machine Learning Techniques with Java-based Software	Kaur L., Mishra A.	Kaur, L., Research Scholar, Department of Computer Science and Engineering, Thapar University, Patiala, India; Mishra, A., Department of Computer Science and Engineering, Thapar University, Patiala, India	Asia Pacific Journal of Information Systems	2020	22885404

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3288	Facilitating User Authorization from Imbalanced Data Logs of Credit Cards Using Artificial Intelligence	Arora V., Leekha R.S., Lee K., Kataria A.	Arora, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Leekha, R.S., Associate Application Support, IT-App Development/Maintenance, Concentrix, Gurugram, India; Lee, K., School of Computer Software, Daegu Catholic University, Gyeongsan, South Korea; Kataria, A., Optical Devices and Systems, CSIR, CSIO, Chandigarh, India	Mobile Information Systems	2020	1574017X
3289	Investigation of cghz during single and multi pass submerged arc welding of high strength steel	Sharma S.K., Maheshwari S.	Sharma, S.K., Thapar Institute of Engineering and Technology Patiala, Punjab, India, Netaji Subhas University of Technology, New Delhi, India; Maheshwari, S., Netaji Subhas University of Technology, New Delhi, India	American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP	2020	0277027X
3290	Serum and cerebrospinal fluid cytokine biomarkers for diagnosis of multiple sclerosis	Martynova E., Goyal M., Johri S., Kumar V., Khaibullin T., Rizvanov A.A., Verma S., Khaiboullina S.F., Baranwal M.	Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Tatarstan, 420008, Russian Federation; Goyal, M., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Tatarstan, 420008, Russian Federation, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Johri, S., Amity School of Engineering and Technology, Amity University, Jaipur, Rajasthan, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khaibullin, T., Republican Clinical Neurological Center, Republic of Tatarstan, Russian Federation; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Tatarstan, 420008, Russian Federation; Verma, S., Department of Microbiology and Immunology, University of Nevada, Reno, NV 89557, United States; Khaiboullina, S.F., Department of Microbiology and Immunology, University of Nevada, Reno, NV 89557, United States; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mediators of Inflammation	2020	9629351
3291	Data prediction of electromagnetic head tracking using self healing neural model for head-mounted display	Kataria A., Ghosh S., Karar V.	Kataria, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Karar, V., Optical Devices and Systems, CSIR-CSIO, Chandigarh, 160030, India	Romanian Journal of Information Science and Technology	2020	14538245
3292	All-optical integrated 2-to-4 decoder and 1-to-4 demultiplexer circuit with enable using SOA based MZI	Nair N., Kaur S., Singh H.	Nair, N., Amity School of Engineering and Technology, Amity University, Noida, 201203, India; Kaur, S., Amity School of Engineering and Technology, Amity University, Noida, 201203, India; Singh, H., Thapar Institute of Engineering and Technology, Patiala, Punjab 144603, India	Journal of Optical Communications	2020	1734911
3293	Stress management of engineering students through deep breathing yoga	Joshi A., Kiran R., Raj R., Agarwal R.	Joshi, A., Electrical Engineering Department, Thapar Polytechnic College, Patiala, Punjab, 147004, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Raj, R., Department of Psychiatry, Government Medical College and, Rajindra Hospital, Patiala, Punjab, 147001, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	International Journal of Work Organisation and Emotion	2020	17408938
3294	Multiple-Attribute Decision-Making Problem Using TOPSIS and Choquet Integral with Hesitant Fuzzy Number Information	Garg H., Keikha A., Mishmast Nehi H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Keikha, A., Department of Mathematics, University of Velayat, Iranshahr, Iran; Mishmast Nehi, H., Department of Mathematics, University of Sistan and Baluchestan, Zahedan, Iran	Mathematical Problems in Engineering	2020	1024123X
3295	Image encryption method using new concept of compound blood transfusion rule with multiple chaotic maps	Gupta R., Pachauri R., Singh A.K.	Gupta, R., Department of Electronics and Communication, Jaypee University of Engineering and Technology, Raghogarh, Guna, MP 473226, India, Department of Electronics and Communication, Thapar Institute of Engineering and Technology University, Patiala, 147004, India; Pachauri, R., Department of Electronics and Communication, Thapar Institute of Engineering and Technology University, Patiala, 147004, India; Singh, A.K., Department of Electronics and Communication, Jaypee University of Engineering and Technology, Raghogarh, Guna, MP 473226, India	Current Medical Imaging	2020	15734056
3296	Optimized time synchronized multilayer mac protocol for wsn using relay nodes	Khurana M., Shivani S., Tiwari S., Sharma B., Obaidat M.S., Hsiao K.-F.	Khurana, M., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Shivani, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, B., Chitkara University, School of Engineering and Technology, Chitkara University Himachal Pradesh, India; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, United Arab Emirates, KASIT, University of Jordan, Amman, Jordan, University of Science and Technology Beijing, Beijing, China; Hsiao, K.-F., Department of Information Management, Ming Chuan University, Taiwan	Ad-Hoc and Sensor Wireless Networks	2020	15519899
3297	Overview of solar radiation estimation techniques with development of solar radiation model using artificial neural network	Choudhary A., Pandey D., Bhardwaj S.	Choudhary, A., Electronics and Communication Engineering Department, Amity School of Engineering and Technology, Amity University, Lucknow, 226010, India; Pandey, D., Electronics and Communication Engineering Department, Amity School of Engineering and Technology, Amity University, Lucknow, 226010, India; Bhardwaj, S., Electronics and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, 147001, India	Advances in Science, Technology and Engineering Systems	2020	24156698

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3298	Improved ber of nano communication over WG fading under GGD noise	Gupta A., Singh S.P., Jain P., Lakshmanan M., Kansal A.	Gupta, A., Thapar Institute of Engineering and Technology, Bhadson Rd., Patiala, Punjab 147004, India; Singh, S.P., Galgotias College of Engineering and Technology, Knowledge Park I, Greater Noida, Uttar Pradesh 201310, India; Jain, P., Galgotias College of Engineering and Technology, Knowledge Park I, Greater Noida, Uttar Pradesh 201310, India; Lakshmanan, M., Galgotias College of Engineering and Technology, Knowledge Park I, Greater Noida, Uttar Pradesh 201310, India; Kansal, A., Thapar Institute of Engineering and Technology, Bhadson Rd., Patiala, Punjab 147004, India	Telecommunications and Radio Engineering (English translation of Elektrosvyaz and Radiotekhnika)	2020	402508
3299	Deciphering the excited state intramolecular charge-coupled double proton transfer in an asymmetric quinoline-benzimidazole system	Kumar G., Paul K., Luxami V.	Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	New Journal of Chemistry	2020	11440546
3300	Comparative study of knee joint torque estimations for linear and rotary actuators using bond graph approach for stand-sit-stand motions	Jain P., Bera T.K., Rafique S., Singla A., Isaksson M.	Jain, P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rafique, S., Department of Electrical Engineering, Mathematics, and Science, Faculty of Engineering and Sustainable Development, University of Gävle, Gävle, Sweden; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Isaksson, M., Department of Electrical Engineering, Mathematics, and Science, Faculty of Engineering and Sustainable Development, University of Gävle, Gävle, Sweden	International Journal of Advanced Robotic Systems	2020	17298806
3301	Optimization methodology based on neural networks and box-behnken design applied to photocatalysis of acid red 114 dye	Garg A., Kaur G., Sangal V.K., Bajpai P.K., Upadhyay S.	Garg, A., Department of Chemical Engineering, National Institute of Technology, Hamirpur, India; Kaur, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Upadhyay, S., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India	Environmental Engineering Research	2020	12261025
3302	Empowering rural women through shared value approach: Study of GNFC Neem Project in India	Goyal S., Kapoor A., Sergi B.S.	Goyal, S., LM Thapar School of Management, Dera Bassi Campus, Off Derabassi, Barwala Road, Chandigarh, Punjab, 140507, India, Institute for Competitiveness, U 24/8, DLF Phase 3, Gurgaon, Haryana, 122 002, India; Kapoor, A., Institute for Competitiveness, U 24/8, DLF Phase 3, Gurgaon, Haryana, 122 002, India; Sergi, B.S., Department of Economics, University of Messina, Messina, 98122, Italy, Davis Center for Russian and Eurasian Studies, Harvard University, Cambridge, United States	World Review of Entrepreneurship, Management and Sustainable Development	2020	17460573
3303	Agriculture supply chain risks and COVID-19: mitigation strategies and implications for the practitioners	Sharma R., Shishodia A., Kamble S., Gunasekaran A., Belhadi A.	Sharma, R., Operations SCM, National Institute of Industrial Engineering (NITIE), Mumbai, India; Shishodia, A., Operations SCM, LM Thapar School of Management, Mohali, India; Kamble, S., Operations and SCM, EDHEC Business School, Roubaix, France; Gunasekaran, A., School of Business and Public Administration, California State University, Bakersfield, CA, United States; Belhadi, A., Cadi Ayyad University, Marrakech, Morocco	International Journal of Logistics Research and Applications	2020	13675567
3304	An adaptive minimum-maximum value-based weighted median filter for removing high density salt and pepper noise in medical images	Garg B.	Garg, B., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Ad Hoc and Ubiquitous Computing	2020	17438225
3305	Analysis of the flexible pavement using falling weight deflectometer for indian national highway road network	Singh A., Sharma A., Chopra T.	Singh, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Transportation Research Procedia	2020	23521457
3306	Decision-Making Analysis Based on Fermatean Fuzzy Yager Aggregation Operators with Application in COVID-19 Testing Facility	Garg H., Shahzadi G., Akram M., Edalatpanah S.A.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Shahzadi, G., Department of Mathematics, University of the Punjab, New Campus, Lahore, 54590, Pakistan; Akram, M., Department of Mathematics, University of the Punjab, New Campus, Lahore, 54590, Pakistan; Edalatpanah, S.A.	Mathematical Problems in Engineering	2020	1024123X
3307	Design and analysis of space vector pulse width modulation techniques for Z-source inverter	Singh S., Sonar S.	Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Power Electronics	2020	1756638X
3308	Current treatment protocol for COVID-19 in India	Sharma S., Basu S., Shetti N.P., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science & Materials, Department of Chemistry, K. L. E. Institute of Technology, Hubballi580030, India; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, 580-007, India	Sensors International	2020	26663511

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3309	Development and characterisation of novel functionally graded hybrid of carbon-glass fibres	Singh S.B., Vummadisetti S., Chawla H.	Singh, S.B., Department of Civil Engineering, BITS Pilani, Rajasthan, India; Vummadisetti, S., Department of Civil Engineering, BITS Pilani, Rajasthan, India; Chawla, H., Department of Civil Engineering, TIET, Patiala, Punjab, India	International Journal of Materials Engineering Innovation	2020	17572754
3310	A conceptual comparison of metaheuristic algorithms and applications to engineering design problems	Kaleka K.K., Kaur A., Kumar V.	Kaleka, K.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Kaur, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Kumar, V., Department of Computer Science and Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, 177005, India	International Journal of Intelligent Information and Database Systems	2020	17515858
3311	Blockchain for secure internet of things	Sharma S., Chaudhry R., Bhardwaj D.	Sharma, S., Department of Computer Science and Engineering, SPM-International Institute of Information Technology Naya Raipur, Naya Raipur, India; Chaudhry, R., Department of Computer Science and Engineering, SPM-International Institute of Information Technology Naya Raipur, Naya Raipur, India; Bhardwaj, D., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, India	Studies in Computational Intelligence	2020	1860949X
3312	A knowledge-driven protocol for prediction of proteins of interest with an emphasis on biosynthetic pathways	Joshi A.G., Harini K., Meenakshi I., Shafi K.M., Pasha S.N., Mahita J., Sajeevan R.S., Karpe S.D., Ghosh P., Nitish S., Gandhimathi A., Mathew O.K., Prasanna S.H., Malini M., Mutt E., Naika M., Ravooru N., Rao R.M., Shingate P.N., Sukhwal A., Sunitha M.S., Upadhyay A.K., Vinekar R.S., Sowdhamini R.	Joshi, A.G., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Harini, K., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Meenakshi, I., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Shafi, K.M., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; The University of Trans-Disciplinary Health Sciences and Technology (TDU), Yelahanka, Bangalore, Karnataka 560064, India; Pasha, S.N., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Mahita, J., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Sajeevan, R.S., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Karpe, S.D., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Ghosh, P., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Nitish, S., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; The University of Trans-Disciplinary Health Sciences and Technology (TDU), Yelahanka, Bangalore, Karnataka 560064, India; Gandhimathi, A., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Mathew, O.K., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Prasanna, S.H., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Malini, M., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Mutt, E., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Naika, M., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Ravooru, N., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Rao, R.M., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Shingate, P.N., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Sukhwal, A., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Sunitha, M.S., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Upadhyay, A.K., National Centre for Biological Sciences (NCBS-TIFR), GKVK campus, Bellary road, Bangalor, Karnataka 560065, India; Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Vinekar, R.S., National Centre for Biological Sciences (NCBS-	MethodsX	2020	22150161
3313	Modeling of Linear Shrinkage in PLA Parts Fabricated by 3D Printing Using TOPSIS Method	Mago J., Kumar R., Agrawal R., Singh A., Srivastava V.	Mago, J., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, R., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Agrawal, R., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, A., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Srivastava, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Lecture Notes on Multidisciplinary Industrial Engineering	2020	25225022
3314	Group decision algorithm for aged healthcare product purchase under q-rung picture normal fuzzy environment using heronian mean operator	Yang Z., Li X., Garg H., Peng R., Wu S., Huang L.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Li, X., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Peng, R., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Wu, S., Kent Business School, University of Kent, Canterbury, Kent, CT2 7FS, United Kingdom; Huang, L., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China	International Journal of Computational Intelligence Systems	2020	18756891
3315	Linearity enhancement techniques for operational transconductance amplifier: A survey	Dubey T., Bhadauria V., Pandey R.	Dubey, T., Electronics and Communication Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh 211004, India; Bhadauria, V., Electronics and Communication Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh 211004, India; Pandey, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Recent Advances in Electrical and Electronic Engineering	2020	23520965

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3316	Estimating technical efficiencies of Indian IT companies for setting improvement targets for inefficient companies: An empirical analysis with workers' effort as key input	Goyal S., Sah A.N., Sharma R.K., Puri J.	Goyal, S., School of Humanities and Social Sciences, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Sah, A.N., School of Humanities and Social Sciences, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering Technology, Patiala, Punjab, India; Puri, J., School of Mathematics, Thapar Institute of Engineering Technology, Patiala, Punjab, India	Work	2020	10519815
3317	Warped product slant lightlike submanifolds of indefinite kaehler manifolds	Sachdeva R., Rani R., Kumar R., Bhatia S.S.	Sachdeva, R., Department of Basic and Applied Sciences, Punjabi University, Patiala, India; Rani, R., Department of Mathematics, University College, Ghanaur, Patiala, Punjab, India; Kumar, R., Department of Basic and Applied Sciences, Punjabi University, Patiala, India; Bhatia, S.S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Springer Proceedings in Mathematics and Statistics	2020	21941009
3318	DeTrAs: deep learning-based healthcare framework for IoT-based assistance of Alzheimer patients	Sharma S., Dudeja R.K., Aujla G.S., Bali R.S., Kumar N.	Sharma, S., Chandigarh University, Mohali, India; Dudeja, R.K., Chandigarh University, Mohali, India; Aujla, G.S., Newcastle University, Newcastle Upon Tyne, United Kingdom; Bali, R.S., Chandigarh University, Mohali, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2020	9410643
3319	Electronic amplifier based on hall effect principle	Kumar A., Ganguli S., Sinha S., Basak R.	Kumar, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Techno India University, Kolkata, 700091, India; Ganguli, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Techno India University, Kolkata, 700091, India; Sinha, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Techno India University, Kolkata, 700091, India; Basak, R., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Techno India University, Kolkata, 700091, India	Lecture Notes in Electrical Engineering	2020	18761100
3320	Min-Max Average Pooling Based Filter for Impulse Noise Removal	Satti P., Sharma N., Garg B.	Satti, P., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Garg, B., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Signal Processing Letters	2020	10709908
3321	Size dependent FEM model for Bi-directional functionally graded nano-beams	Dangi C., Saini S., Lal R., Vir Singh I.	Dangi, C., Indian Institute of Technology Roorkee, Department of Mathematics, Roorkee, 247667, India; Saini, S., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Patiala, 147004, India; Lal, R., Indian Institute of Technology Roorkee, Department of Mathematics, Roorkee, 247667, India; Vir Singh, I., Indian Institute of Technology Roorkee, Department of Mechanical and Industrial Engineering, Roorkee, 247667, India	Materials Today: Proceedings	2020	22147853
3322	An Application of IoT to Develop Concept of Smart Remote Monitoring System	Sharma M., Singla M.K., Nijhawan P., Ganguli S., Rajest S.S.	Sharma, M., Thapar Institute of Engineering and Technology, Patiala, India; Singla, M.K., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India; Ganguli, S., Thapar Institute of Engineering and Technology, Patiala, India; Rajest, S.S., Vels Institute of Science, Technology & Advanced Studies, Chennai, India	EAI/Springer Innovations in Communication and Computing	2020	25228595
3323	An Algorithmic Approach to System Identification in the Delta Domain Using FAdFPA Algorithm	Ganguli S., Kaur G., Sarkar P., Rajest S.S.	Ganguli, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kaur, G., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Sarkar, P., National Institute of Technical Teachers' Training & Research, Bidhannagar, West Bengal, India; Rajest, S.S., Vels Institute of Science, Technology & Advanced Studies, Chennai, Tamil Nadu, India	EAI/Springer Innovations in Communication and Computing	2020	25228595
3324	Integration of WSN with iot applications: A vision, architecture, and future challenges	Bajaj K., Sharma B., Singh R.	Bajaj, K., Chitkara University School of Engineering and Technology, Chitkara UniversityHimachal Pradesh, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara UniversityHimachal Pradesh, India; Singh, R., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	EAI/Springer Innovations in Communication and Computing	2020	25228595
3325	An IoT-Based Controller Realization for PV System Monitoring and Control	Gupta J., Singla M.K., Nijhawan P., Ganguli S., Rajest S.S.	Gupta, J., Thapar Institute of Engineering and Technology, Patiala, India; Singla, M.K., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India; Ganguli, S., Thapar Institute of Engineering and Technology, Patiala, India; Rajest, S.S., Vels Institute of Science, Technology & Advanced Studies, Chennai, India	EAI/Springer Innovations in Communication and Computing	2020	25228595
3326	Development of an Efficient, Cheap, and Flexible IoT-Based Wind Turbine Emulator	Singla M.K., Gupta J., Nijhawan P., Ganguli S., Rajest S.S.	Singla, M.K., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, J., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India; Ganguli, S., Thapar Institute of Engineering and Technology, Patiala, India; Rajest, S.S., Vels Institute of Science, Technology & Advanced Studies, Chennai, India	EAI/Springer Innovations in Communication and Computing	2020	25228595
3327	Intelligence-based channel equalization for 4x1 sfb-c-ofdm receiver	Kapoor D.S., Kohli A.K.	Kapoor, D.S., Electronics and Communication Engineering Department, Chandigarh University, Mohali, Punjab 140413, India; Kohli, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Intelligent Automation and Soft Computing	2020	10798587
3328	Convective and radiative thermal analysis of composite wall with nonlinear temperature-dependent properties	Singhal M., Singla R.K., Goyal K.	Singhal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Heat Transfer Research	2020	10642285

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3329	Multi-objective optimization of performance and emissions characteristics of a variable compression ratio diesel engine running with biogas-diesel fuel using response surface techniques	Mahla S.K., Safieddin Ardebili S.M., Mostafaei M., Dhir A., Goga G., Chauhan B.S.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, India; Safieddin Ardebili, S.M., Department of Biosystems Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran; Mostafaei, M., Mechanics of Biosystems Engineering Department, Razi University, Kermanshah, Iran; Dhir, A., School of Energy Environment, Thapar Institute of Engineering and Technology, Patiala, India; Goga, G., School of Mechanical Engineering, KC College of Engineering and IT, Nawanshahr, Punjab, India; Chauhan, B.S., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
3330	Evaluating the Hydration of Cement Mortar Blended with Calcined Clay Using Piezoelectric-Based Sensing Technique	Anand K., Aggarwal D., Goyal S., Kaur N.	Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aggarwal, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, N., Bridge Engineering and Structures Division, CSIR-Central Road Research Institute (CRRI), New Delhi, 147004, India	RILEM Bookseries	2020	22110844
3331	Designing Intuitionistic Fuzzy Forecasting Model Combined with Information Granules and Weighted Association Reasoning	Hassan S.G., Iqbal S., Garg H., Hassan M., Shuangyin L., Kieuvan T.T.	Hassan, S.G., College of Information Science and Technology, Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China; Iqbal, S., School of Economics and Statistics, Guangzhou University, Guangzhou, 510006, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University Patiala, Patiala, 147004, India; Hassan, M., College of Economics and Management, Jilin Agriculture University, Changchun, 130033, China; Shuangyin, L., College of Information Science and Technology, Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China; Kieuvan, T.T., College of International Trade and Economics, Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China	IEEE Access	2020	21693536
3332	Pulse compression favorable thermal wave imaging methods for testing and evaluation of carbon fibre reinforced polymer	Mulaveesala R., Arora V., Dua G., Rani A., Kher V., Sharma A., Kaur K.	Mulaveesala, R., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Arora, V., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Dua, G., Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India; Rani, A., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Kher, V., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Sharma, A., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India; Kaur, K., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, Punjab, 140001, India	Proceedings of SPIE - The International Society for Optical Engineering	2020	0277786X
3333	Latency Evaluation of SDFGs on Heterogeneous Processors Using Timed Automata	Rajadurai S., Alazab M., Kumar N., Gadekallu T.R.	Rajadurai, S., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, 632014, India; Alazab, M., College of Engineering, It and Environment, Charles Darwin University, Casuarina, NT 0909, Australia; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan; Gadekallu, T.R., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, 632014, India	IEEE Access	2020	21693536
3334	Machine Learning-Based Student's Native Place Identification for Real-Time	Verma C., Stoffova V., Illes Z., Tanwar S., Kumar N.	Verma, C., Department of Media and Educational Informatics, Eotvos Lorand University, Budapest, 1053, Hungary; Stoffova, V., Department Mathematics and Computer Science, Trnava University, Trnava, 91843, Slovakia; Illes, Z., Department of Media and Educational Informatics, Eotvos Lorand University, Budapest, 1053, Hungary; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kumar, N., Department of Computer Science and Engineering (CSE), Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147002, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan	IEEE Access	2020	21693536
3335	Cognitive science based design of smart coaching schema	Kaur H., Singh K., Kaur T.	Kaur, H., Department of Computer Science And Engineering Thapar Institute of Engineering And Technology, Patiala, Punjab, India; Singh, K., University Computer Center Punjabi University, Patiala, Punjab, India; Kaur, T., Center For Diaspora Studies Punjabi University, Patiala, Punjab, India	Advances in Mathematics: Scientific Journal	2020	18578365
3336	The indoor-outdoor image classification and comparison of machine learning methods using the MPEG-7 descriptors	Goel A., Singhal N.	Goel, A., Department of Computer Science And Engineering Thapar Institute Of Engineering And Technology, Patiala, Punjab, India; Singhal, N., Department of Computer Science And Engineering Thapar Institute Of Engineering And Technology, Patiala, Punjab, India	Advances in Mathematics: Scientific Journal	2020	18578365
3337	A swarm intelligence-based quality of service aware resource allocation for clouds	Kumar A., Sharma A., Kumar R.	Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Ad Hoc and Ubiquitous Computing	2020	17438225

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3338	Sequential microbial-photocatalytic degradation of imidacloprid	Sharma T., Kaur M., Sobti A., Rajor A., Toor A.P.	Sharma, T., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, M., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Sobti, A., Dr. SSB University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh, 160014, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Toor, A.P., Energy Research Centre, Panjab University, Chandigarh, 160014, India, Dr. SSB University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh, 160014, India	Environmental Engineering Research	2020	12261025
3339	Rheological study of the developed medium and its correlation with surface roughness during abrasive flow finishing of micro-slots	Singh S., Sankar M.R.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sankar, M.R., Department of Mechanical Engineering, Indian Institute of Technology, Tirupati, India	Machining Science and Technology	2020	10910344
3340	(F, h)-upper class type functions for cyclic admissible contractions in metric spaces	Ansari A.H., Chandok S., Guran L., Farhadabadi S., Shin D.Y., Park C.	Ansari, A.H., Department of Mathematics, Karaj Branch, Islamic Azad University, Karaj, Iran; Chandok, S., School of Mathematics, Thapar University, Patiala, 147004, India; Guran, L., Department of Pharmaceutical Sciences, Vasile Goldiș Western University of Arad, Liviu Rebreanu Street, no. 86, Arad, 310414, Romania; Farhadabadi, S., Computer Engineering Department, Komar University of Science and Technology, Sulaymaniyah, 46001, Iraq; Shin, D.Y., Department of Mathematics, University of Seoul, Seoul, 02504, South Korea; Park, C., Research Institute for Natural Sciences, Hanyang University, Seoul, 04763, South Korea	AIMS Mathematics	2020	24736988
3341	Comparative study of moving least square and point interpolation meshless technique for layered composite beam subjected to transverse loading	Shah K., Gadade A.M.	Shah, K., Mechanical Engineering Department, Army Institute of Technology, Alandi Road, Pune, 411015, India; Gadade, A.M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mathematical Modelling of Engineering Problems	2020	23690739
3342	Elimination of Fipronil insecticide by adsorption technique from aqueous solution by Cu-13X zeolite composite: isotherms, kinetic and thermodynamic studies	Mehta T., Rathi A., Verma A., Barman S., Halder G.	Mehta, T., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Rathi, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Barman, S., Department of Chemical Engineering, National Institute of Engineering and Technology Durgapur West Bengal, India; Halder, G., Department of Chemical Engineering, National Institute of Engineering and Technology Durgapur West Bengal, India	International Journal of Environmental Analytical Chemistry	2020	3067319
3343	Hybrid machine translation system using deep learning	Singh M., Kumar R., Chana I.	Singh, M., CSED, Chandigarh University, Mohali, India; Kumar, R., Language Engineering and Machine Learning Research Labs, CSED, Thapar Institute of Engineering and Technology, Patiala, India; Chana, I., CSED, Thapar Institute of Engineering and Technology, Patiala, India	ASM Science Journal	2020	18236782
3344	Design and performance analysis of L-shaped ground and radiator antenna with a metallic reflector for WBAN	Gupta A., Kansal A., Chawla P.	Gupta, A., Thapar University, India; Kansal, A., Thapar University, India; Chawla, P., Chandigarh University, India	International Journal of Electronics	2020	207217
3345	112 gb/s coherent NG-PON2 downstream transmission using advance polarization multiplexed modulation formats	Sharma D., Bajpai S., Prajapati Y.K., Tripathi R.	Sharma, D., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bajpai, S., Department of Electronics & Communication Engineering, Integral University, Lucknow, U.P., India; Prajapati, Y.K., Department of Electronics & Communication Engineering, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, U.P., India; Tripathi, R., Department of Electronics & Communication Engineering, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, U.P., India	Optoelectronics and Advanced Materials, Rapid Communications	2020	18426573
3346	An efficient clustering algorithm for mixed dataset of postoperative surgical records	Petwal H., Rani R.	Petwal, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Computational Intelligence Systems	2020	18756891
3347	Effect of Addition of Plastic Fibres on Strength Characteristics of Subgrade Soil	Kaushal A., Pathak R., Chopra T.	Kaushal, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pathak, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Civil Engineering	2020	23662557
3348	ITSSAKA-MS: An Improved Three-Factor Symmetric-Key Based Secure AKA Scheme for Multi-Server Environments	Ali Z., Hussain S., Rehman R.H.U., Munshi A., Liaqat M., Kumar N., Chaudhry S.A.	Ali, Z., Department of Computer Science, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Hussain, S., Department of Computer Science, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Rehman, R.H.U., Department of Computer Science, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Munshi, A., Cybersecurity Department, University of Jeddah, Jeddah, 21959, Saudi Arabia; Liaqat, M., College of Computing and Information Technology, University of Jeddah, Khulais, 21921, Saudi Arabia; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, King Abdulaziz University, Jeddah, 22231, Saudi Arabia; Chaudhry, S.A., Department of Computer Engineering, Faculty of Engineering and Architecture, Istanbul Gelisim University, Istanbul, 34310, Turkey	IEEE Access	2020	21693536

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3349	Development of Road Maintenance Management System for India's National Highway Network Using HDM-4 and Genetic Programming	Sharma A., Chopra T.	Sharma, A., Thapar Institute of Engineering and Technology, P.O Box 32, Bhadson Road, Patiala, Punjab 147004, India; Chopra, T., Thapar Institute of Engineering and Technology, P.O Box 32, Bhadson Road, Patiala, Punjab 147004, India	Lecture Notes in Civil Engineering	2020	23662557
3350	RGIM: An integrated approach to improve QoS in AODV, DSR and DSDV routing protocols for FANETS using the chain mobility model	Kaur P., Singh A., Gill S.S.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gill, S.S., School of Electronic Engineering and Computer Science, Queen Mary University of London, London, United Kingdom	Computer Journal	2020	104620
3351	Parametric study of aluminium-rare earth based composites with improved hydrophobicity using response surface method	Sharma V.K., Kumar V., Joshi R.S.	Sharma, V.K., Thapar Institute of Engineering and Technology Patiala, Patiala, India, Meerut Institute of Engineering and Technology, Meerut, India; Kumar, V., Thapar Institute of Engineering and Technology Patiala, Patiala, India; Joshi, R.S., Thapar Institute of Engineering and Technology Patiala, Patiala, India	Journal of Materials Research and Technology	2020	22387854
3352	Group decision making approach based on possibility degree measure under linguistic interval-valued intuitionistic fuzzy set environment	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Journal of Industrial and Management Optimization	2020	15475816
3353	Effect of TIC Reinforcement in the Copper Tool on Roundness During EDM Process	Walia A.S., Srivastava V., Jain V., Bansal S.A.	Walia, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Bansal, S.A., Department of Mechanical Engineering, MAIT, Maharaja Agrasen University, Baddi, H.P. 174103, India	Lecture Notes in Mechanical Engineering	2020	21954356
3354	Effect of Nanoclay in Unidirectional Carbon-Epoxy Laminated Composites	Singh V., Singh M., Saini J.S., Badhwar R., Gupta A., Chauhan N.	Singh, V., Mechanical Engineering Department, Lovely Professional University, Phagwara, Punjab, India; Singh, M., Mechanical Engineering Department, Lovely Professional University, Phagwara, Punjab, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Badhwar, R., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Gupta, A., Mechanical Engineering Department, Lovely Professional University, Phagwara, Punjab, India; Chauhan, N., Mechanical Engineering Department, Lovely Professional University, Phagwara, Punjab, India	Lecture Notes in Mechanical Engineering	2020	21954356
3355	A Posteriori Error Estimates for Hughes Stabilized SUPG Technique and Adaptive Refinement for a Convection-Diffusion Problem	Kaur B., Sangwan V.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sangwan, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advances in Mathematical Physics	2020	16879120
3356	Estimation of Reservoir Capacity and Sediment Deposition Using Remote Sensing Data	Balasmeh O.I.A., Karmaker T., Babbar R.	Balasmeh, O.I.A., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Karmaker, T., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Babbar, R., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	World Environmental and Water Resources Congress 2020: Water Resources Planning and Management and Irrigation and Drainage - Selected Papers from the Proceedings of the World Environmental and Water Resources Congress 2020	2020	
3357	Facial Sentiment Analysis Using AI Techniques: State-of-the-Art, Taxonomies, and Challenges	Patel K., Mehta D., Mistry C., Gupta R., Tanwar S., Kumar N., Alazab M.	Patel, K., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Mehta, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Mistry, C., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Information Technology, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia	IEEE Access	2020	21693536

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3358	Wireless-Powered UAV assisted Communication System in Nakagami-m Fading Channels	Ponnimbaduge Perera T.D., Jayakody D.N.K., Garg S., Kumar N., Cheng L.	Ponnimbaduge Perera, T.D., School of Computer Science and Robotics, National Research Tomsk Polytechnic University, Russian Federation; Jayakody, D.N.K., School of Postgraduate Studies Research, Sri Lanka Technological Campus, Padukka, Sri Lanka; Garg, S., Ecole de Technologie Supérieure, Electrical Engineering Department, Montreal, QC H3C 1K3, Canada; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, India; Cheng, L., School of Electrical and Information Engineering, University of the Witwatersrand, South Africa	2020 IEEE 17th Annual Consumer Communications and Networking Conference, CCNC 2020	2020	
3359	Efficient Load balancing to serve Heterogeneous Requests in Clustered Systems using Kubernetes	Dua A., Randive S., Agarwal A., Kumar N.	Dua, A., BITS Pilani, Department of Computer Science and Information Systems, Pilani, India; Randive, S., BITS Pilani, Department of Computer Science and Information Systems, Pilani, India; Agarwal, A., BITS Pilani, Department of Computer Science and Information Systems, Pilani, India; Kumar, N., Thapar University, Computer Science and Engineering Department, Patiala, Punjab, India	2020 IEEE 17th Annual Consumer Communications and Networking Conference, CCNC 2020	2020	
3360	Numerical solutions for axisymmetric non-newtonian stagnation enrobing flow, heat, and mass transfer with application to cylindrical pipe coating dynamics	Bég O.A., Bhargava R., Sharma S., Bég T.A., Shamshuddin M.D., Kadir A.	Bég, O.A., Aeronautical and Mechanical Engineering, University of Salford, Manchester, M54WT, United Kingdom; Bhargava, R., Mathematics Department, Indian Institute of Technology Roorkee, Uttarakhand, 247667, India; Sharma, S., School of Mathematics, Thapar University, Patiala, Punjab 147001, India; Bég, T.A., Computational Mechanics and Renewable Energy, Dickenson Road, Manchester, M13, United Kingdom; Shamshuddin, M.D., Department of Mathematics, Vaagdevi College of Engineering, Warangal, Telangana 506005, India; Kadir, A., Aeronautical and Mechanical Engineering, University of Salford, Manchester, M54WT, United Kingdom	Computational Thermal Sciences	2020	19402503
3361	Understanding cellular and molecular events of skin aging and cancer: An integrative perspective	Singh B., Malhotra H., Kumar D., Mujtaba S.F., Upadhyay A.K.	Singh, B., Department of Biotechnology, Lovely Professional University, Jalandhar, Punjab, India; Malhotra, H., Department of Biotechnology, Lovely Professional University, Jalandhar, Punjab, India; Kumar, D., Amity Institute of Molecular Medicine, Stem Cell Research Lab, Amity University, Noida, India; Mujtaba, S.F., Department of Zoology, Shia P.G. College, Lucknow, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Skin Aging & Cancer: Ambient UV-R Exposure	2020	
3362	An IoT-Based Solution for Smart Parking	da Cruz M.A.A., Rodrigues J.J.P.C., Gomes G.F.A., Almeida P., Rabelo R.A.L., Kumar N., Mumtaz S.	da Cruz, M.A.A., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí, MG, Brazil, University of Haute Alsace, Colmar, France; Rodrigues, J.J.P.C., Federal University of Piauí (UFPI), Teresina, PI, Brazil, Instituto de Telecomunicações, Lisbon, Portugal; Gomes, G.F.A., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí, MG, Brazil; Almeida, P., National Institute of Telecommunications (INATEL), Santa Rita do Sapucaí, MG, Brazil; Rabelo, R.A.L., Federal University of Piauí (UFPI), Teresina, PI, Brazil; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mumtaz, S., Instituto de Telecomunicações, Lisbon, Portugal	Lecture Notes in Networks and Systems	2020	23673370
3363	Realization of a Dual Stop Band for 'S' and 'X' Bands From the Complimentary Geometry of the Dual Pass Band (S and X Band Application) FSSs	Kaur A., Kaur K.	Kaur, A., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, K., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2020	23673370
3364	Preface	Singh P.K., Pawlowski W., Tanwar S., Kumar N., Rodrigues J.J.P.C., Obaidat M.S.	Singh, P.K., Department of Computer Science and Engineering Jaypee University of Information Technology, Solan, Wagnaghat, Himachal Pradesh, India; Pawlowski, W., Faculty of Mathematics, Physics, and Informatics University of Gdansk, Gdańsk, Poland; Tanwar, S., Department of Computer Engineering Institute of Technology Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rodrigues, J.J.P.C., The National Institute of Telecommunications (Inatel), Santa Rita do Sapucaí, Brazil; Obaidat, M.S., King Abdullah II School of Information Technology University of Jordan, Amman, Jordan	Lecture Notes in Networks and Systems	2020	23673370
3365	Design and development of standalone solar photovoltaic battery system with adaptive sliding mode controller	Bagherwal S., Badoni M., Semwal S., Singh S.	Bagherwal, S., Thapar Institute of Engineering and Technology, Patiala, India; Badoni, M., Thapar Institute of Engineering and Technology, Patiala, India; Semwal, S., Department of Electrical Engineering, Tula's Institute, Dehradun, India; Singh, S., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Renewable Energy Research	2020	13090127
3366	Stochastic neural networks for cryptocurrency price prediction	Jay P., Kalariya V., Parmar P., Tanwar S., Kumar N., Alazab M.	Jay, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kalariya, V., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Parmar, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia	IEEE Access	2020	21693536
3367	Extended TOPSIS method for multi-criteria group decision-making problems under cubic intuitionistic fuzzy environment	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Scientia Iranica	2020	10263098

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3368	Blockchain for Industry 4.0: A comprehensive review	Bodkhe U., Tanwar S., Parekh K., Khanpara P., Tyagi S., Kumar N., Alazab M.	Bodkhe, U., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Parekh, K., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Khanpara, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Kumar, N., Department of CSE, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia	IEEE Access	2020	21693536
3369	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction	Tao H., Salih S.Q., Saggi M.K., Dodangeh E., Voyant C., Al-Ansari N., Yaseen Z.M., Shahid S.	Tao, H., Computer Science Department, Baoji University of Arts and Sciences, Baoji, China; Salih, S.Q., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Computer Science Department, College of Computer Science and Information Technology, University of Anbar, Ramadi, Iraq; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dodangeh, E., Department of Watershed Management, Sari Agricultural Sciences and Natural Resources University, Sari, 48181-68984, Iran; Voyant, C., SPE Laboratory, University of Corsica UMR 6134, Ajaccio, 20000, France; Al-Ansari, N., Civil, Environmental and Natural Resources Engineering, Lulea University of Technology, Lulea, 97187, Sweden; Yaseen, Z.M., Sustainable Developments in Civil Engineering Research Group, Faculty of Civil Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Shahid, S., School of Civil Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), Johor Bahru, 81310, Malaysia	IEEE Access	2020	21693536
3370	Gearbox Fault Diagnosis using Advanced Computational Intelligence	Mukherjee S., Kumar V., Sarangi S., Bera T.K.	Mukherjee, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sarangi, S., Department of Mechanical Engineering, Indian Institute of Technology, Patna, Bihar, 801103, India; Bera, T.K., Department of Mechanical Engineering, Indian Institute of Technology, Patna, Bihar, 801103, India	Procedia Computer Science	2020	18770509
3371	Corpus based Machine Translation System with Deep Neural Network for Sanskrit to Hindi Translation	Singh M., Kumar R., Chana I.	Singh, M., Language Engineering and Machine Learning Research Labs, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Language Engineering and Machine Learning Research Labs, Thapar Institute of Engineering and Technology, Patiala, India; Chana, I., CSED, Thapar Institute of Engineering and Technology, Patiala, India	Procedia Computer Science	2020	18770509
3372	An Improved Signal Pre-Processing Method for Gearbox Fault Features Extraction	Mukherjee S., Kumar V., Sarangi S., Bera T.K.	Mukherjee, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, V., Department of Mechanical Engineering, Indian Institute of Technology, Patna, Bihar, 801103, India; Sarangi, S., Department of Mechanical Engineering, Indian Institute of Technology, Patna, Bihar, 801103, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Procedia Computer Science	2020	18770509
3373	Optical multi input multi output signal processing with linearly polarized mode groups to enhance mode division multiplexing	Gupta R., Kaler R.S.	Gupta, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Kaler, R.S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	Optoelectronics and Advanced Materials, Rapid Communications	2020	18426573
3374	Fault Diagnosis of Cascaded H-bridge Multilevel Inverter by DWPT Multi resolution and ANN	Chappa A., Gupta S., Sahu L.K., Gupta K.K.	Chappa, A., National Institute of Tech, Department of Electrical Eng, Raipur, 492010, India; Gupta, S., National Institute of Tech, Department of Electrical Eng, Raipur, 492010, India; Sahu, L.K., National Institute of Tech, Department of Electrical Eng, Raipur, 492010, India; Gupta, K.K., Thapar Institute of Engineering Technology, Department of Electrical Instrumentation Eng, Punjab, Patiala, India	2020 1st International Conference on Power, Control and Computing Technologies, ICPC2T 2020	2020	
3375	On Ψ -projective expansion, quasi partial metrics aggregation with an application	Gupta V., Dhawan P., Kaur J.	Gupta, V., Department of Mathematics, Maharishi Markandeshwar, Deemed to be University, Mullana, Haryana 133207, India; Dhawan, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Applied Analysis and Computation	2020	2156907X
3376	Deep convolutional neural network with transfer learning for detecting pneumonia on chest x-rays	Chhikara P., Singh P., Gupta P., Bhatia T.	Chhikara, P., Thapar Institute of Engineering and Technology, Patiala, India; Singh, P., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, P., Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, T., Thapar Institute of Engineering and Technology, Patiala, India	Advances in Intelligent Systems and Computing	2020	21945357
3377	CSA based PID controller design technique for optimizing various integral errors	Kaur A., Kaur R., Sondhi S.	Kaur, A., Punjabi University, Department of Electronics and Communication Engineering, Patiala, Punjab, India; Kaur, R., Punjabi University, Department of Electronics and Communication Engineering, Patiala, Punjab, India; Sondhi, S., Thapar Institute of Engg. and Tech, Department of Electrical and Instrumentation Engineering, Patiala, Punjab, India	Proceedings of the Confluence 2020 - 10th International Conference on Cloud Computing, Data Science and Engineering	2020	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3378	Abstractive Text Summarization Using Enhanced Attention Model	Roul R.K., Joshi P.M., Sahoo J.K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Joshi, P.M., Department of Computer Science, BITS-Pilani, K. K. Birla Goa Campus, Zuarinagar, Goa 403726, India; Sahoo, J.K., Department of Mathematics, BITS-Pilani, K. K. Birla Goa Campus, Zuarinagar, Goa 403726, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2020	3029743
3379	Algorithms Based on COPRAS and Aggregation Operators with New Information Measures for Possibility Intuitionistic Fuzzy Soft Decision-Making	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	Mathematical Problems in Engineering	2020	1024123X
3380	A benchmark dataset of online handwritten gurmukhi script words and numerals	Singh H., Sharma R.K., Kumar R., Verma K., Kumar R., Kumar M.	Singh, H., Chitkara University, Institute of Engineering and Technology Punjab, India; Sharma, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, 151001, India	Communications in Computer and Information Science	2020	18650929
3381	Ant Colony Optimization Techniques – An Enhancement to Energy Efficiency in WSNs	Guleria K., Verma A.K.	Guleria, K., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A.K., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2020	23674512
3382	Existence of Picard operator and iterated function system	Garg M., Chandok S.	Garg, M., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Applied General Topology	2020	15769402
3383	Recognition of online handwritten gurmukhi strokes using convolutional neural networks	Budhouliya R., Sharma R.K., Singh H.	Budhouliya, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Singh, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	ICAART 2020 - Proceedings of the 12th International Conference on Agents and Artificial Intelligence	2020	
3384	Algorithms for single-valued neutrosophic decision making based on topsis and clustering methods with new distance measure	Garg H., Nancy	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala Punjab, India; Nancy, Department of Applied Sciences, Punjab Engineering College (Deemed to be University), Chandigarh, India	AIMS Mathematics	2020	24736988
3385	Heat and Mass Transfer Due to Double-Diffusion Convection in a Square Porous Enclosure Occupied by Casson Fluid	Aneja M., Sharma S.	Aneja, M., Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, S., Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Lecture Notes in Mechanical Engineering	2020	21954356
3386	Digital villages: A data-driven approach to precision agriculture in small farms	Fishman R., Ghosh M., Mishra A., Shomrat S., Laks M., Mayer R., Jog A., Dor E.B., Shacham-Diamand Y.	Fishman, R., School of Public Policy, Faculty of Social Sciences, Tel Aviv University, Tel Aviv, Israel; Ghosh, M., TAU/TIET Food Security CoE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mishra, A., TAU/TIET Food Security CoE, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Shomrat, S., Remote Sensing Lab, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, Israel; Laks, M., School of Public Policy, Faculty of Social Sciences, Tel Aviv University, Tel Aviv, Israel; Mayer, R., School of Public Policy, Faculty of Social Sciences, Tel Aviv University, Tel Aviv, Israel; Jog, A., School of EE, Faculty of Engineering, Tel Aviv University, Tel Aviv, Israel; Dor, E.B., Remote Sensing Lab, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, Israel; Shacham-Diamand, Y., School of Public Policy, Faculty of Social Sciences, Tel Aviv University, Tel Aviv, Israel, School of EE, Faculty of Engineering, Tel Aviv University, Tel Aviv, Israel	SENSORNETS 2020 - Proceedings of the 9th International Conference on Sensor Networks	2020	
3387	Optical properties of CdS:Pb thin layer deposited on glass substrate	Kaushik H.K., Kumar S., Chaudhary M.G., Khan S.	Kaushik, H.K., Mahamana Malviya Degree College, Khekra, Baghpat, 250 101, India; Kumar, S., SRM University, NCR Campus, Modinagar, 201 204, India; Chaudhary, M.G., SRM University, NCR Campus, Modinagar, 201 204, India; Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Indian Journal of Pure and Applied Physics	2020	195596
3388	Development and rheological characterisation of abrasive flow finishing medium for finishing macro to micro features	Singh S., Ravi Sankar M.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Ravi Sankar, M., Department of Mechanical Engineering, Indian Institute of Technology Tirupati, Tirupati, 517 506, India	Defence Science Journal	2020	0011748X
3389	Topsis method based on correlation coefficient for solving decision-making problems with intuitionistic fuzzy soft set information	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala Punjab, India; Arora, R., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala Punjab, India	AIMS Mathematics	2020	24736988

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3390	A new configuration of three-level ZSI using transistor clamped topology	Sonar S.	Sonar, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2020	19961073
3391	Real time adaptive street lighting system	Garg S., Ahuja S., Randhawa S.	Garg, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Ahuja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Randhawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Communications in Computer and Information Science	2020	18650929
3392	Impact of core thickness and gate misalignment on rectangular core-shell based double gate junctionless field effect transistor	Narula V., Agarwal M.	Narula, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Semiconductor Science and Technology	2020	2681242
3393	Gauging the effectiveness of music and yoga for reducing stress among engineering students: An investigation based on Galvanic Skin Response	Joshi A., Kiran R.	Joshi, A., School of Humanities and Social Sciences, Thapar University, Punjab, India, Electrical Engineering, Thapar Polytechnic College, Punjab, India; Kiran, R., School of Humanities and Social Sciences, Thapar University, Punjab, India	Work	2020	10519815
3394	Bidirectional fiber bragg grating-circulator based optical add-drop multiplexer in dwdm transmission system with reduced channel spacing at 40 gb/s	Dewra S., Kaler R.S.	Dewra, S., Department of Electronics and Communication Engineering, Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab 152002, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar University, Patiala, 147001, India	Optoelectronics and Advanced Materials, Rapid Communications	2020	18426573
3395	Performance evaluation of an all-optical multicasting strategy based on cross-gain modulation (XGM) in a single semiconductor optical amplifier (SOA)	Singh K., Kaur P., Singla S.K., Kaur G.	Singh, K., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Kaur, P., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Singla, S.K., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Optoelectronics and Advanced Materials, Rapid Communications	2020	18426573
3396	On flexural and pull out properties of 3D printed PLA based hybrid composite matrix	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Dept. of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Dept. of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India, Dept. of Mechanical Engineering, Nitrr, Chandigarh, India; Singh, T.P., Dept. of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Dept. of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Materials Research Express	2020	20531591
3397	Deep learning-based cross-domain adaptation for gearbox fault diagnosis under variable speed conditions	Singh J., Azamfar M., Ainapure A., Lee J.	Singh, J., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Azamfar, M., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States; Ainapure, A., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States; Lee, J., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States	Measurement Science and Technology	2020	9570233
3398	A Review on MXene for energy storage application: Effect of interlayer distance	Garg R., Agarwal A., Agarwal M.	Garg, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Research Express	2020	20531591
3399	An immunoinformatics approach in design of synthetic peptide vaccine against influenza virus	Lohia N., Baranwal M.	Lohia, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India, School of Life Sciences, Jaipur National University, Jaipur, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Methods in Molecular Biology	2020	10643745
3400	Numerical study on performance of flat tube with water based copper oxide nanofluids	Sharma P., Kumar V., Sokhal G.S., Dasaraju G., Bulasara V.K.	Sharma, P., Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab 140413, India; Kumar, V., Department of Physics, Chandigarh University, Mohali, Punjab 140413, India, Department of Physics, National Institute of Technology, Srinagar, J&K 190006, India; Sokhal, G.S., Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab 140413, India; Dasaraju, G., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Bulasara, V.K., Department of Chemical Engineering, C.V. Raman College of Engineering, Bhubaneswar, Odisha 752054, India	Materials Today: Proceedings	2020	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3401	Evolution of Nickel-stearate langmuir monolayers and the synthesized NiOx ultra-thin films with pH	Kaur A., Pruthi P., Brar L.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pruthi, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today: Proceedings	2020	22147853
3402	Potential porous mediums for electrochemical hydrogen storage: State of art and comparative study	Jindal H., Oberoi A.S., Sandhu I.S., Chitkara M.	Jindal, H., Department of Mechanical Engineering, Chitkara University Institute of Engineering and Technology, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sandhu, I.S., Department of Applied Science, Chitkara University Institute of Engineering and Technology, India; Chitkara, M., Department of Mechanical Engineering, Chitkara University Institute of Engineering and Technology, India	Materials Today: Proceedings	2020	22147853
3403	A new contraction and existence theorems on fuzzy metric space with a graph	Gupta V., Verma M., Kaur J.	Gupta, V., Department of Mathematics, Maharishi Markandeshwar Deemed to be University, Mullana, Haryana, India; Verma, M., Department of Mathematics, Maharishi Markandeshwar Deemed to be University, Mullana, Haryana, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Italian Journal of Pure and Applied Mathematics	2020	11268042
3404	An Efficient Expert System for Proactive Fire Detection	Singla V., Kaur H.	Singla, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India; Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3405	Design and Analysis of Higher-Order Sigma Delta Modulator	Malhotra D., Aggarwal A.	Malhotra, D., Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India; Aggarwal, A., Electronics and Communication Engineering, Thapar University, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3406	Detection of hate speech and offensive language in twitter data using LSTM model	Bisht A., Singh A., Bhadauria H.S., Virmani J., Kriti	Bisht, A., G B Pant Institute of Engineering and Technology, Pauri GarhwalUttarakhand, India; Singh, A., G B Pant Institute of Engineering and Technology, Pauri GarhwalUttarakhand, India; Bhadauria, H.S., G B Pant Institute of Engineering and Technology, Pauri GarhwalUttarakhand, India; Virmani, J., CSIR—Central Scientific Instruments Organization, Chandigarh, India; Kriti, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3407	Handwritten Devanagari Character Generation Using Deep Convolutional Generative Adversarial Network	Kaur S., Verma K.	Kaur, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Verma, K., Department of Computer Science, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2020	21945357
3408	Enhancing dependability of wireless sensor network under flooding attack: A machine learning perspective	Sandhu J.K., Verma A.K., Rana P.S.	Sandhu, J.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Verma, A.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India	International Journal of Ad Hoc and Ubiquitous Computing	2020	17438225
3409	Wind power forecasting using wavelet transform and general regression neural network for ontario electricity market	Saroa S., Aggarwal S.K.	Saroa, S., A.P., Electrical Engineering, Department of Printing Technology, Guru Jambheshwar University of Science & Technology, Hisar, India; Aggarwal, S.K., EIED, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Recent Advances in Electrical and Electronic Engineering	2020	23520965
3410	Review of inpainting techniques for UAV images	Kadian G., Khadanga G.	Kadian, G., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Khadanga, G., Civil Engineering Department, IIT Roorkee, Roorkee, India	Lecture Notes in Civil Engineering	2020	23662557
3411	Characterization of Dielectrophoresis Based Relay-Assisted Molecular Communication Using Analogue Transmission Line	Manocha P., Chandwani G., Das S.	Manocha, P., School of Medical Science and Technology, IIT Kharagpur, Kharagpur, 721302, India; Chandwani, G., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, S., School of Medical Science and Technology, IIT Kharagpur, Kharagpur, 721302, India	IEEE Access	2020	21693536
3412	A summarization of collision avoidance techniques for autonomous navigation of UAV	Payal, Akashdeep, Raman Singh C.	Payal, UIET, Panjab University, Chandigarh, India; Akashdeep, UIET, Panjab University, Chandigarh, India; Raman Singh, C., Thapar Institute of Engineering & Technology, Patiala, India	Lecture Notes in Civil Engineering	2020	23662557
3413	Efficient Certificateless Aggregate Signature Scheme for Performing Secure Routing in VANETS	Xu Z., He D., Kumar N., Choo K.-K.R.	Xu, Z., Hubei Co-Innovation Center of Basic Education Information Technology Services, College of Computer, Hubei University of Education, Wuhan, China, Guangdong Provincial Key Laboratory of Data Security and Privacy Protection, Guangzhou, China; He, D., Guangdong Provincial Key Laboratory of Data Security and Privacy Protection, Guangzhou, China, Key Laboratory of Aerospace Information Security and Trusted Computing, Ministry of Education, School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, School of Communication and Information Engineering, Asia University, Taichung City, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia; Choo, K.-K.R., Department of Information Systems and Cyber Security, Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX, United States	Security and Communication Networks	2020	19390114

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3414	Semi-local analysis and real life applications of higher-order iterative schemes for nonlinear systems	Behl R., Bhalla S., Argyros I.K., Kumar S.	Behl, R., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Bhalla, S., Department of Mathematics, Chandigarh University, Gharuan, Mohali, Punjab, 140413, India; Argyros, I.K., Department of Mathematical Sciences, Cameron University, Lawton, OK 73505, United States; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology University, Patiala, Punjab, 147004, India	Mathematics	2020	22277390
3415	Dynamically updated diversified ensemble-based approach for handling concept drift	Goel K., Batra S.	Goel, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Turkish Journal of Electrical Engineering and Computer Sciences	2020	13000632
3416	A power and area efficient approximate carry skip adder for error resilient applications	Patel S.K., Garg B., Rai S.K.	Patel, S.K., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Garg, B., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Turkish Journal of Electrical Engineering and Computer Sciences	2020	13000632
3417	Caliberating length scale parameter and micropolarity on transference of love-type waves in composite of CoFe2O4 and aluminium-epoxy laden with newtonian liquid	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIMS Mathematics	2020	24736988
3418	New dispersion-compensated raman-amplifier cascade with a single-pump parametric amplifier for dense wavelength-division multiplexing	Kaur G., Gurmeet K., Sharma S.	Kaur, G., ECED, Thapar Institute of Engineering & Technology, Deemed University, Patiala, India; Gurmeet, K., ECE, Punjabi University, Patiala, India; Sharma, S., ECED, Thapar Institute of Engineering & Technology, Deemed University, Patiala, India	Ukrainian Journal of Physical Optics	2020	16091833
3419	An efficient hyperpower iterative method for computing weighted Moore-Penrose inverse	Kaur M., Kansal M., Kumar S.	Kaur, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIMS Mathematics	2020	24736988
3420	Determinants of behaviour of working capital requirements of BSE listed companies: An empirical study using co-integration techniques and generalised method of moments	Sharma R.K., Bakshi A., Chhabra S.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Bakshi, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Chhabra, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	Cogent Economics and Finance	2020	23322039
3421	Energy Efficient Routing Protocols for Wireless Sensor Network	Gupta S.K., Kumar S., Tyagi S., Tanwar S.	Gupta, S.K., Department of Electronics and Communication Engineering, SRMS CET&R, Bareilly, UP, India, Department of Electronics and Communication Engineering, Amity University, Lucknow Campus, Lucknow, UP, India; Kumar, S., Department of Electronics and Communication Engineering, Amity University, Lucknow Campus, Lucknow, UP, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Deemed to be University, Patiala, Punjab, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India	Advances in Intelligent Systems and Computing	2020	21945357
3422	Development of Aluminium-Yttrium Oxide Metal Matrix Composite Foam Through FSP	Rathore S., Singh R.K.R., Khan K.L.A.	Rathore, S., KIET Group of Institutions, Ghaziabad, UP, India; Singh, R.K.R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khan, K.L.A., KIET Group of Institutions, Ghaziabad, UP, India	Lecture Notes in Mechanical Engineering	2020	21954356
3423	Biogenic selenium nanoparticles as co-catalysts for enhancing photocatalytic activity of se-zno nanocomposites	Vaishnav A., Prakash R., Pal B., Joshi N., Tejo Prakash N.	Vaishnav, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Joshi, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Tejo Prakash, N., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Selenium Research for Environment and Human Health: Perspectives, Technologies and Advancements - Proceedings of the 6th International Conference on Selenium in the Environment and Human Health, 2019	2020	
3424	A novel entropy measure of pythagorean fuzzy soft sets	Athira T.M., John S.J., Garg H.	Athira, T.M., Department of Mathematics, National Institute of Technology Calicut673 601, India; John, S.J., Department of Mathematics, National Institute of Technology Calicut673 601, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University PatialaPunjab, India	AIMS Mathematics	2020	24736988

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3425	An ecofriendly route to synthesize C-Mo2C and C/N-Mo2C utilizing waste polyethylene for efficient hydrogen evolution reaction (HER) activity and high performance capacitors	Mir R.A., Pandey O.P.	Mir, R.A., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Pandey, O.P., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India	Sustainable Energy and Fuels	2020	23984902
3426	Secure Real-Time Traffic Data Aggregation with Batch Verification for Vehicular Cloud in VANETs	Shen J., Liu D., Chen X., Li J., Kumar N., Vijayakumar P.	Shen, J., Jiangsu Engineering Center of Network Monitoring, Nanjing University of Information Science and Technology, Nanjing, 210044, China, Cyberspace Security Research Center, Peng Cheng Laboratory, Shenzhen, 518000, China, State Key Laboratory of Cryptology, Beijing, 100878, China; Liu, D., Jiangsu Engineering Center of Network Monitoring, Nanjing University of Information Science and Technology, Nanjing, 210044, China, Cyberspace Security Research Center, Peng Cheng Laboratory, Shenzhen, 518000, China, State Key Laboratory of Cryptology, Beijing, 100878, China; Chen, X., State Key Laboratory of Integrated Service Networks, Xidian University, Xi'an, 710071, China; Li, J., School of Computer Science, Guangzhou University, Guangzhou, 510006, China; Kumar, N., King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, 604001, India	IEEE Transactions on Vehicular Technology	2020	189545
3427	Assessing the viability of tri-trophic food chain model in designing a conservation plan: The case of dwindling Quokka population	Roy P., Jain S., Maama M.	Roy, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Maama, M., Normandie Univ, UNIHAVRE, LMAH, FR-CNRS-3335, ISCNLe Havre 76600, France	Ecological Complexity	2020	1476945X
3428	Interactions of a multifunctional d-triazole derivative with Alzheimer's Aβ42 monomer and Aβ42 protofibril: A systematic molecular dynamics study	Kaur A., Shuaib S., Goyal D., Goyal B.	Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Shuaib, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Goyal, D., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140406, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physical Chemistry Chemical Physics	2020	14639076
3429	Impedance control of three dimensional hybrid manipulator	Arora R., Bera T.K.	Arora, R., Mechanical Engineering Department, Chandigarh University, Mohali, Punjab, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Mechanical Science and Technology	2020	1738494X
3430	Comparison of catalase activity in different organs of the potato (Solanum tuberosum L.) cultivars grown under field condition and purification by three-phase partitioning	Kaur G., Sharma S., Das N.	Kaur, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Acta Physiologiae Plantarum	2020	1375881
3431	Designing and implementation of overhead conductor altitude measurement system using GPS for sag monitoring	Kamboj S., Dahiya R.	Kamboj, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dahiya, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Electrical Engineering, National Institute of Technology (Deemed University), Kurukshetra, Haryana, India	Lecture Notes in Electrical Engineering	2020	18761100
3432	Sentiment Analysis and Extractive Summarization Based Recommendation System	Roul R.K., Sahoo J.K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sahoo, J.K., Department of Mathematics, BITS-Pilani, K.K. Birla Goa Campus, Zuarinagar, Mormugao, Goa 403726, India	Advances in Intelligent Systems and Computing	2020	21945357
3433	Near-Duplicate Document Detection Using Semantic-Based Similarity Measure: A Novel Approach	Roul R.K., Sahoo J.K.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sahoo, J.K., Department of Mathematics, BITS-Pilani, K. K. Birla Goa Campus, Zuarinagar, Goa 403726, India	Advances in Intelligent Systems and Computing	2020	21945357
3434	Improved Flower Pollination Algorithm for Linear Antenna Design Problems	Salgotra R., Singh U., Saha S., Nagar A.K.	Salgotra, R., Thapar Institute of Engineering & Technology, Punjab, India; Singh, U., Thapar Institute of Engineering & Technology, Punjab, India; Saha, S., Indian Institute of Technology Patna, Patna, India; Nagar, A.K., Liverpool Hope University, Liverpool, United Kingdom	Advances in Intelligent Systems and Computing	2020	21945357
3435	An Automated Framework to Uncover Malicious Traffic for University Campus Network	Mahajan A., Ramotra A.K., Mansotra V., Singh M.	Mahajan, A., Department of Computer Science & IT, University of Jammu, Jammu, Jammu and Kashmir 180006, India; Ramotra, A.K., Department of Computer Science & IT, University of Jammu, Jammu, Jammu and Kashmir 180006, India; Mansotra, V., Department of Computer Science & IT, University of Jammu, Jammu, Jammu and Kashmir 180006, India; Singh, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Smart Innovation, Systems and Technologies	2020	21903018
3436	Forecasting Soil Moisture Based on Evaluation of Time Series Analysis	Singh S., Kaur S., Kumar P.	Singh, S., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, S., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, P., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2020	18761100

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3437	An Efficient Copy-Move Forgery Detection Technique Using Nature-Inspired Optimization Algorithm	Gupta A., Chawla I.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chawla, I., Department of Mechanical and Industrial Engineering, IIT Roorkee, Roorkee, 247667, India	Studies in Computational Intelligence	2020	1860949X
3438	Dynamic distance based lifetime enhancement scheme for HWSN	Gupta S.K., Kumar S., Tyagi S., Tanwar S.	Gupta, S.K., Department of ECE, SRMS College of Engineering, Technology and Research, Bareilly, India, Department of ECE, Amity School of Engineering & Technology, Lucknow Campus, Uttar Pradesh, India; Kumar, S., Department of ECE, Amity School of Engineering and Technology, Lucknow Campus, Uttar Pradesh, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India	Lecture Notes in Electrical Engineering	2020	18761100
3439	A Capacitated Facility Allocation Approach Based on Residue for Constrained Regions	Mangla M., Garg D.	Mangla, M., CSED, Thapar University, Patiala, India, Faculty of CSED, LTCoE, Navi Mumbai, India; Garg, D., CSED, Bennett University, Greater Noida, India	Advances in Intelligent Systems and Computing	2020	21945357
3440	High Data Rate Audio Steganography	Roy S., Kapoor V.	Roy, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kapoor, V., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3441	Adjacency Cloud-Oriented Storage Overlay Topology Using Self-organizing M-Way Tree	Kumar A., Bawa S.	Kumar, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3442	Higher-Order Non-Symmetric Duality for Nondifferentiable Minimax Fractional Programs with Square Root Terms	Sonali, Sharma V., Kailey N.	Sonali, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Acta Mathematica Scientia	2020	2529602
3443	Human Arthritis Analysis in Fog Computing Environment Using Bayesian Network Classifier and Thread Protocol	Tanwar S., Vora J., Kaneriya S., Tyagi S., Kumar N., Sharma V., You I.	Tanwar, S., Nirma University, Ahmedabad, India; Vora, J., Nirma University, Ahmedabad, India; Kaneriya, S., Nirma University, Ahmedabad, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Sharma, V., Department of Information Security Engineering, Soonchunhyang University, Asan, South Korea; You, I., Department of Information Security Engineering, Soonchunhyang University, Asan, South Korea	IEEE Consumer Electronics Magazine	2020	21622248
3444	Investigation of high temperature corrosion resistance of Ni25Cr coated and bare 347H SS in actual husk fired boiler atmosphere	Gada H., Mudgal D., Parvez S., Ahmad B.	Gada, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology PatialaPunjab, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology PatialaPunjab, India; Parvez, S., Department of Mechanical Engineering, National Institute of Technology, Srinagar, Jammu and Kashmir, India; Ahmad, B., Department of Mechanical Engineering, National Institute of Technology, Srinagar, Jammu and Kashmir, India	Engineering Failure Analysis	2020	13506307
3445	Enhanced photoluminescence intensity of blue-light-emitting BaMgAl10O17:Eu2+ phosphor with Dy3+ co-doping	Jeet S., Pandey O.P.	Jeet, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147002, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147002, India	Journal of Materials Science: Materials in Electronics	2020	9574522
3446	Fault Classification in a Transmission Line Using Levenberg–Marquardt Algorithm Based Artificial Neural Network	Kaur H., Kaur M.	Kaur, H., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, M., Thapar Institute of Engineering and Technology, Patiala, India	Advances in Intelligent Systems and Computing	2020	21945357
3447	Structural, magnetic, dielectric, microwave absorption, and optical characterization of Ni 0.1Co 0.9(MnZr) xFe 2 - 2 xO 4/ Ba ySr 1 - yFe 12O 19 nanocomposites	Pubby K., Sharma P., Narang S.B.	Pubby, K., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Sharma, P., School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	Journal of Materials Science: Materials in Electronics	2020	9574522
3448	Five-axis tool positioning of a toroidal end mill tool near common edge between two intersecting surfaces	Sharma S.K., Duvedi R.K., Bedi S., Mann S.	Sharma, S.K., Thapar Institute of Engineering & Technology, India; Duvedi, R.K., Thapar Institute of Engineering & Technology, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	Computer-Aided Design and Applications	2020	16864360
3449	Dynamic ECG Classification Using Shift-Invariant DTCWT and Discriminant Analysis	Singh R., Rajpal N., Mehta R.	Singh, R., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Rajpal, N., USICT, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Mehta, R., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2020	18761100
3450	No-reference image quality assessment using fusion metric	Bagade J.V., Singh K., Dandawate Y.H.	Bagade, J.V., Department of Information Technology, Vishwakarma Institute of Information Technology, Pune, Maharashtra, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dandawate, Y.H., Department of Electronics and Telecommunication, Vishwakarma Institute of Information Technology, Pune, Maharashtra, India	Multimedia Tools and Applications	2020	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3451	Understanding the Challenges in the Research and Innovation Ecosystem in India	Goyal S., Chauhan S., Kapoor A.	Goyal, S., L M Thapar School of Management, Derabassi, Punjab 140507, India, The Institute for Competitiveness, Gurugram, Haryana, India; Chauhan, S., O. P. Jindal Global Business School, Sonapat, India; Kapoor, A., The Institute for Competitiveness, Gurugram, Haryana, India	Lecture Notes in Networks and Systems	2020	23673370
3452	TUDocChain-Securing Academic Certificate Digitally on Blockchain	Budhiraja S., Rani R.	Budhiraja, S., Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2020	23673370
3453	Implementation of Internet of Things and Protocol	Rishabh, Gianey H.	Rishabh, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gianey, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Networks and Systems	2020	23673370
3454	Enhancing Energy Efficiency in IoT (Internet of Thing) Based Application	Singh U., Chana I.	Singh, U., Thapar Institute of Engineering and Technology, Patiala, India; Chana, I., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2020	23673370
3455	Effect of Temperature and Precipitation on the Vegetation Dynamics of High and Moderate Altitude Natural Forests in India	Al Balasmeh O.I., Karmaker T.	Al Balasmeh, O.I., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of the Indian Society of Remote Sensing	2020	0255660X
3456	Conclusions and future research directions	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3457	New methods for solving fully fuzzy solid transportation problems with LR fuzzy parameters	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3458	New methods for solving the fully fuzzy transportation problems with the LR flat fuzzy numbers	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3459	A brief introduction to fuzzy sets	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3460	New improved methods for solving the fully fuzzy transshipment problems with parameters given as the LR flat fuzzy numbers	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3461	Introduction	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3462	New methods for solving fully fuzzy solid transshipment problems with LR flat fuzzy numbers	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3463	A brief introduction to fuzzy optimization and fuzzy mathematical programming	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3464	New methods for solving fully fuzzy transportation problems with trapezoidal fuzzy parameters	Kaur A., Kacprzyk J., Kumar A.	Kaur, A., Irving K. Barber School of Arts and Sciences, The University of British Columbia, Kelowna, BC, Canada; Kacprzyk, J., Systems Research Institute, Polish Academy of Sciences, Warsaw, Poland; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3465	Morphological influence of ZnO nanostructures and their Cu loaded composites for effective photodegradation of methyl parathion	Aulakh M.K., Kaur S., Pal B., Singh S.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Solid State Sciences	2020	12932558
3466	A compact multi-band multi-input multi-output antenna for 4G/5G and IoT devices using theory of characteristic modes	Kumar N., Khanna R.	Kumar, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University)Punjab, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University)Punjab, India	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3467	Path planning techniques for unmanned aerial vehicles: A review, solutions, and challenges	Aggarwal S., Kumar N.	Aggarwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computer Communications	2020	1403664
3468	Theoretical and experimental investigations on nano-finishing of internal cylindrical surfaces with a newly developed rotational magnetorheological honing process	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2020	9544062
3469	En-ABC: An ensemble artificial bee colony based anomaly detection scheme for cloud environment	Garg S., Kaur K., Batra S., Aujla G.S., Morgan G., Kumar N., Zomaya A.Y., Ranjan R.	Garg, S., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC, H3C 1K3, Canada, Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaur, K., Electrical Engineering Department, École de technologie supérieure, Université du Québec, Montréal, QC, H3C 1K3, Canada, Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Batra, S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Aujla, G.S., School of Computing, Newcastle University, Newcastle Upon Tyne, United Kingdom, Computer Science and Engineering Department, Chandigarh University, Gharuan, Mohali, Punjab, India; Morgan, G., School of Computing, Newcastle University, Newcastle Upon Tyne, United Kingdom; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Zomaya, A.Y., School of Computer Science, University of Sydney, SydneyNSW 2006, Australia; Ranjan, R., School of Computing, Newcastle University, Newcastle Upon Tyne, United Kingdom	Journal of Parallel and Distributed Computing	2020	7437315
3470	Interactive Systems for Fashion Clothing Recommendation	Sachdeva H., Pandey S.	Sachdeva, H., TIET Patiala, Punjab, India; Pandey, S., TIET Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3471	Synthesis and structure of complexes (NiII, AgI) of substituted benzaldehyde thiosemicarbazones and antitubercular activity of NiII complex	Sharma D., Jasinski J.P., Smolinski V.A., Kaur M., Paul K., Sharma R.	Sharma, D., Department of Chemistry, Lovely Professional University, Phagwara, Punjab, India; Jasinski, J.P., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 0343502001, United States; Smolinski, V.A., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 0343502001, United States; Kaur, M., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH 0343502001, United States; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, R., Department of Chemistry, Lovely Professional University, Phagwara, Punjab, India	Inorganica Chimica Acta	2020	201693
3472	On the structural, dielectric and energy storage behaviour of PVDF-CaCu3Ti4O12 nanocomposite films	Kaur S., Singh D.P.	Kaur, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, D.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Materials Chemistry and Physics	2020	2540584
3473	Blockchain for 5G-enabled IoT for industrial automation: A systematic review, solutions, and challenges	Mistry I., Tanwar S., Tyagi S., Kumar N.	Mistry, I., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Mechanical Systems and Signal Processing	2020	8883270
3474	A note on "Novel scaled prioritized intuitionistic fuzzy soft interaction averaging aggregation operators and their application to multi criteria decision making"	Mishra A., Kumar A., Appadoo S.S.	Mishra, A., School of Mathematics, Thapar Institute of Engineering, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering, Patiala, Punjab, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Manitoba, Canada	Engineering Applications of Artificial Intelligence	2020	9521976
3475	Development of sine cosine toolbox for LabVIEW	Maurya S., Jain M., Pachauri N.	Maurya, S., Department of Electronics and Communication, GLA University, Mathura, 281406, India; Jain, M., School of Automation, Banasthali Vidyapith, Vanasthali, Rajasthan 304022, India; Pachauri, N., Department of Electrical and Instrumentation, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Advances in Intelligent Systems and Computing	2020	21945357
3476	A high resolution and low jitter 5-bit flash TDC architecture for high speed intelligent systems	Sahani J.K., Singh A., Agarwal A.	Sahani, J.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Advances in Intelligent Systems and Computing	2020	21945357

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3477	Monostatic radar based ultra-wideband microwave imaging system featuring a miniature fork shaped microstrip patch antenna with a reduced DGS for early breast tumor detection	Kaur A., Kaur A.	Kaur, A., Antenna Research and Testing Laboratory, Department of Electronics and Communication Engineering, Thapar University, Patiala, 147004, India; Kaur, A., Antenna Research and Testing Laboratory, Department of Electronics and Communication Engineering, Thapar University, Patiala, 147004, India	Advances in Intelligent Systems and Computing	2020	21945357
3478	A Hybrid Filtering-Based Retinal Blood Vessel Segmentation Algorithm	Samant P., Bansal A., Agarwal R.	Samant, P., Chandigarh University, Gharuan, India; Bansal, A., GLA University, Mathura, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Advances in Intelligent Systems and Computing	2020	21945357
3479	Breast cancer detection with a ring-shaped DRA (dielectric resonator antenna)	Kaur G., Kaur A.	Kaur, G., ECED, TIET Patiala, Punjab, India; Kaur, A., ECED, TIET Patiala, Punjab, India	Advances in Intelligent Systems and Computing	2020	21945357
3480	Blockchain data-based cloud data integrity protection mechanism	Wei P., Wang D., Zhao Y., Tyagi S.K.S., Kumar N.	Wei, P., School of Mathematics and Information Engineering, Chongqing University of Education, Chongqing, China; Wang, D., School of Electrical Engineering and Automation, Henan Polytechnic University, Jiaozuo, Henan, China; Zhao, Y., School of Mathematics and Information Engineering, Chongqing University of Education, Chongqing, China; Tyagi, S.K.S., School of Electronic and Information Engineering, Zhongyuan University of Technology, Zhengzhou, China; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Future Generation Computer Systems	2020	0167739X
3481	Techno-economical evaluation of coupling ionizing radiation and biological treatment process for the remediation of real pharmaceutical wastewater	Changotra R., Rajput H., Guin J.P., Khader S.A., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guin, J.P., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Khader, S.A., Isotope & Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Cleaner Production	2020	9596526
3482	Influence of acyl acceptor blends on the ester yield and fuel properties of biodiesel generated by whole-cell catalysis of cottonseed oil	Nain P., Jaiswal S.K., Prakash N.T., Prakash R., Gupta S.K.	Nain, P., Environmental Engineering, Department of Civil Engineering, Indian Institute of Technology, Delhi, India; Jaiswal, S.K., Department of Environmental Science and Engineering, Marwadi University Rajkot, India; Prakash, N.T., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, S.K., Environmental Engineering, Department of Civil Engineering, Indian Institute of Technology, Delhi, India	Fuel	2020	162361
3483	MudraChain: Blockchain-based framework for automated cheque clearance in financial institutions	Kabra N., Bhattacharya P., Tanwar S., Tyagi S.	Kabra, N., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India	Future Generation Computer Systems	2020	0167739X
3484	Oxygen deficient V2O3: A stable and efficient electrocatalyst for HER and high performance EDLCs	Chalotra S., Mir R.A., Kaur G., Pandey O.P.	Chalotra, S., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Mir, R.A., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Kaur, G., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India	Ceramics International	2020	2728842
3485	Design of intermittent rainfall-pattern for structures with gridded data: Validation and implementation	Das S., Narula P., Sarkar K.	Das, S., School of Engineering, Indian Institute of Technology Mandi, KamandHimachal Pradesh 175005, India; Narula, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sarkar, K., School of Engineering, Indian Institute of Technology Mandi, KamandHimachal Pradesh 175005, India	Journal of Building Engineering	2020	23527102
3486	Utilization of Copper Slag in Self-compacting Concrete - Strength and Permeation Properties	Gupta N., Siddique R.	Gupta, N., Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	RILEM Bookseries	2020	22110844
3487	A Robust Stackelberg Game Approach for Joint Relay Selection and Optimal Power Allocation for Cooperative Device-to-Device Communication Under Channel Uncertainties	Lamba A.K., Kumar R., Sharma S.	Lamba, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2020	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3488	An improved robust image-adaptive watermarking with two watermarks using statistical decoder	Bhinder P., Jindal N., Singh K.	Bhinder, P., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2020	13807501
3489	Silicone oil envelope for enhancing the performance of nanofluid-based direct absorption solar collectors	Bhalla V., Beejawat S., Doshi J., Khullar V., Singh H., Tyagi H.	Bhalla, V., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India; Beejawat, S., Department of Mechanical Engineering, Indian Institute of Technology Jodhpur, Jodhpur, Rajasthan, India; Doshi, J., School of Engineering and Applied Science, Ahmedabad University, Ahmedabad, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Singh, H., College of Engineering Design and Physical Sciences, Brunel University London, Uxbridge, United Kingdom; Tyagi, H., School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India	Renewable Energy	2020	9601481
3490	Modified reduced device multilevel inverter structures with open circuit fault-tolerance capabilities	Dewangan N.K., Gupta K.K., Bhatnagar P.	Dewangan, N.K., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India	International Transactions on Electrical Energy Systems	2020	20507038
3491	Preface	Tanwar S., Tyagi S., Kumar N.	Tanwar, S., Department of Computer Science and Engineering Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	Intelligent Systems Reference Library	2020	18684394
3492	MOSHEPO: a hybrid multi-objective approach to solve economic load dispatch and micro grid problems	Dhiman G.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India, Department of Computer Science, Government Bikram College of Commerce, Patiala, Punjab 147004, India	Applied Intelligence	2020	0924669X
3493	MH-CACA: multi-objective harmony search-based coverage aware clustering algorithm in WSNs	Singh S., Kumar P.	Singh, S., Department of Computer Engineering, National Institute of Technology Kurukshetra, Kurukshetra, Haryana, India; Kumar, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Enterprise Information Systems	2020	17517575
3494	Energy-Efficient Fuzzy-Logic-Based Data Aggregation in Wireless Sensor Networks	Randhawa S., Jain S.	Randhawa, S., Computer Science and Engineering Department, Thapar University, Patiala, India; Jain, S., Computer Science and Engineering Department, Thapar University, Patiala, India	Advances in Intelligent Systems and Computing	2020	21945357
3495	Accuracy Assessment of the Digital Elevation Model, Digital Terrain Model (DTM) from Aerial Stereo Pairs and Contour Maps for Hydrological Parameters	Al Balasmeh O.I.M., Karmaker T.	Al Balasmeh, O.I.M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Lecture Notes in Civil Engineering	2020	23662557
3496	Parametric similarity measures on linguistic single-valued neutrosophic sets with application to decision-making problems	Nancy	Nancy, School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2020	21945357
3497	Performance comparison of PID and ANFIS controller for stabilization of x and x-y inverted pendulums	Chawla I., Chopra V., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Chopra, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2020	21945357
3498	Intuitionistic fuzzy soft aggregation operator based on einstein norms and its applications in decision-making	Arora R.	Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2020	21945357
3499	Fusion of multi-exposure images using recursive and Gaussian filter	Chaudhary V., Kumar V.	Chaudhary, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multidimensional Systems and Signal Processing	2020	9236082
3500	Matrix games with fuzzy payoffs	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3501	Future scope	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922

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3502	Preface	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3503	Matrix games with intuitionistic fuzzy payoffs	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3504	Constrained matrix games with fuzzy payoffs	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3505	Bimatrix games with intuitionistic fuzzy payoffs	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3506	Matrix games with interval payoffs	Verma T., Kumar A.	Verma, T., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2020	14349922
3507	Dependability Analysis for On-Demand Computing Based Transaction Processing System	Mahato D.P., Sandhu J.K., Singh N.P., Dutta K.	Mahato, D.P., Computer Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, Himachal Pradesh 177005, India; Sandhu, J.K., Computer Science and Engineering, Thapar University, Patiala, Punjab 147001, India; Singh, N.P., Computer Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, Himachal Pradesh 177005, India; Dutta, K., Computer Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, Himachal Pradesh 177005, India	Advances in Intelligent Systems and Computing	2020	21945357
3508	Maclaurin symmetric mean aggregation operators based on t-norm operations for the dual hesitant fuzzy soft set	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Journal of Ambient Intelligence and Humanized Computing	2020	18685137
3509	Engineering flat gain tunable raman-parametric hybrid I-band amplifier for narrow band multi-channel terabits system	Kaur G.	Kaur, G., Ece Department, Thapar University, Patiala, India	Journal of Optical Communications	2020	1734911
3510	A Comprehensive Review on Image Encryption Techniques	Kaur M., Kumar V.	Kaur, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kumar, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Archives of Computational Methods in Engineering	2020	11343060
3511	A novel exponential distance and its based TOPSIS method for interval-valued intuitionistic fuzzy sets using connection number of SPA theory	Garg H., Kumar K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University) Patiala, Patiala, Punjab 147004, India; Kumar, K., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University) Patiala, Patiala, Punjab 147004, India	Artificial Intelligence Review	2020	2692821
3512	Aloe-vera flower shaped rutile TiO2 for selective hydrogenation of nitroaromatics under direct sunlight irradiation	Singh S., Prajapat R., Rather R.A., Pal B.	Singh, S., School of Chemistry and Biochemistry, Thapar University, Patiala (Punjab), 147004, India; Prajapat, R., School of Chemistry and Biochemistry, Thapar University, Patiala (Punjab), 147004, India; Rather, R.A., School of Chemistry and Biochemistry, Thapar University, Patiala (Punjab), 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar University, Patiala (Punjab), 147004, India	Arabian Journal of Chemistry	2020	18785352
3513	Performance improvement of WDM optical network using optimal regenerator placement strategy	Kaur K., Kumar A., Singh H.	Kaur, K., Amity University Haryana, Gurugram, Haryana, India; Kumar, A., Amity University Haryana, Gurugram, Haryana, India; Singh, H., Thapar University, Patiala, Punjab, India	Journal of Optical Communications	2020	1734911
3514	An enhanced separable reversible and secure patient data hiding algorithm for telemedicine applications[Formula presented]	Bhardwaj R., Aggarwal A.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Expert Systems with Applications	2021	9574174
3515	Brain network topology unraveling epilepsy and ASD Association: Automated EEG-based diagnostic model	Wadhwa T.	Wadhwa, T., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Expert Systems with Applications	2021	9574174
3516	An efficient image super resolution model with dense skip connections between complex filter structures in Generative Adversarial Networks	Sharma S., Kumar V.	Sharma, S., Thapar Institute of Engineering and Technology, Punjab, India; Kumar, V., Thapar Institute of Engineering and Technology, Punjab, India	Expert Systems with Applications	2021	9574174

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3517	Distance transform based text-line extraction from unconstrained handwritten document images	Bera S.K., Kundu S., Kumar N., Sarkar R.	Bera, S.K., Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Rd, Kolkata, 700032, India; Kundu, S., Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Rd, Kolkata, 700032, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India; Sarkar, R., Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Rd, Kolkata, 700032, India	Expert Systems with Applications	2021	9574174
3518	A review on social spam detection: Challenges, open issues, and future directions	Rao S., Verma A.K., Bhatia T.	Rao, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Expert Systems with Applications	2021	9574174
3519	Chaotic PSO for PV system modelling	Ganguli S., Gupta J., Nijhawan P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, J., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Intelligent Renewable Energy Systems: Integrating Artificial Intelligence Techniques and Optimization Algorithms	2021	
3520	Synthesis and photobiological applications of naphthalimide-benzothiazole conjugates: cytotoxicity and topoisomerase II α inhibition	Singh I., Luxami V., Choudhury D., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	RSC Advances	2021	20462069
3521	Biocatalytic synthesis of quinoline derivatives via α -amylase catalysed one-pot domino aza-Michael/Aldol/aromatization reactions	Dutt S., Tyagi V.	Dutt, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Tetrahedron Letters	2021	404039
3522	Causal theory on acceleration of seed germination in the vicinity of high voltage direct current transmission line	Kumar A., Pandey O.P.	Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Theoretical Biology	2021	225193
3523	A critical study on genetically engineered bioweapons and computer-based techniques as counter measure	Sharma M., Sharma B., Gupta A.K., Pandey D., Singh J., Kakkar R.	Sharma, M., Department of ECE, Chandigarh Group of Colleges, India; Sharma, B., Department of ME, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, A.K., Department of CSE, Chandigarh Group of Colleges, Landran, Mohali, India; Pandey, D., Department of Technical Education IET, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India; Singh, J., College of Engineering and Management, Punjabi University, Patiala, India; Kakkar, R., Department of Applied Science, Chandigarh Group of College, Landran, Mohali, India	Machine Learning and IoT for Intelligent Systems and Smart Applications	2021	
3524	Construction of an efficient and durable hierarchical porous CuO/SiO ₂ monolith for synergistically boosting the visible-light-driven degradation of organic pollutants	Sharma S., Basu S.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Separation and Purification Technology	2021	13835866
3525	New Grounded and Floating Memristor-Less Meminductor Emulators Using VDTA and CDBA	Yadav N., Rai S.K., Pandey R.	Yadav, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Circuits, Systems and Computers	2021	2181266
3526	Pressure-Tensor method evaluation of the interfacial tension between Gay-Berne isotropic fluid and a smooth repulsive wall	Kaur J., Deb D.	Kaur, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Bhadson Road Punjab 147004, India; Deb, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Bhadson Road Punjab 147004, India	Soft Matter	2021	1744683X
3527	A Pd-catalyzed one-pot cascade consisting of C-C/C-O/N-N bond formation to access benzoxazine fused 1,2,3-triazoles	Soam P., Gaba H., Mandal D., Tyagi V.	Soam, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gaba, H., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Organic and Biomolecular Chemistry	2021	14770520

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3528	Sustainable Utilization of Potato Industry Waste for Antifungal Biopolymer Production by Lactobacillus helveticus and Its Application on Pomegranates (Punica granatum L.)	Ghosh M., Chouhan D., Kamra A., Sharma V.	Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-TAU Center of Excellence for Food Security, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chouhan, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kamra, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Circular Economy and Sustainability	2021	2730597X
3529	WEClustering: word embeddings based text clustering technique for large datasets	Mehta V., Bawa S., Singh J.	Mehta, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Complex and Intelligent Systems	2021	21994536
3530	Ultrasound Image Despeckling and Enhancement using Modified Multiscale Anisotropic Diffusion Model in Non-Subsampled Shearlet Domain	Bedi A.K., Sunkaria R.K., Mittal D.	Bedi, A.K., Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Grand Trunk Road, Bye pass, , Punjab, Jalandhar, 144011, India; Sunkaria, R.K., Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Grand Trunk Road, Bye pass, , Punjab, Jalandhar, 144011, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Adarsh Nagar, Prem Nagar, , Punjab, Patiala, 147004, India	Computer Journal	2021	104620
3531	Leveraging Blockchain for Secure Drone-to-Everything Communications	Auja G.S., Vashisht S., Garg S., Kumar N., Kaddoum G.	Auja, G.S., Durham University, United Kingdom; Vashisht, S., Chandigarh University, India; Garg, S., Université du Québec, Canada; Kumar, N., Thapar Institute of Engineering and Technology, India; Kaddoum, G., Thapar Institute of Engineering and Technology, India	IEEE Communications Standards Magazine	2021	24712825
3532	Decay Dynamics of 221Ac* Nucleus Formed in 16O- and 12C-Induced Reactions at Above Barrier Energies	Sharma N., Kaur A., Sharma M.K.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bulletin of the Russian Academy of Sciences: Physics	2021	10628738
3533	Cupola slag as partial replacement of fine aggregate in concrete – An experimental study	Waseem S.A., Thakur N., Islam S.U., Kumar M., Saini J.S.	Waseem, S.A., Structural Engineering Section, Department of Civil Engineering, National Institute of Technology, Srinagar, J & K 190006, India; Thakur, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Islam, S.U., Research Scholar, Department of Civil Engineering, National Institute of Technology, Srinagar, J & K 190006, India; Kumar, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Building Engineering	2021	23527102
3534	Q and frequency component-based fault and nature detection for hybrid microgrid	Singh M., Basak P.	Singh, M., Electrical Engineering Department, Chandigarh University, Mohali, India; Basak, P., Electrical and Instrumentation Engineering Department of Thapar University, Patiala, Punjab, India	Sustainable Energy, Grids and Networks	2021	23524677
3535	Comparative analysis of numerical methods for constitutive modeling of shape memory alloys	Bhatt N., Soni S., Singla A.	Bhatt, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Soni, S., Biomedical Instrumentation Division, Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, 160030, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Modelling and Simulation in Materials Science and Engineering	2021	9650393
3536	Comparison of wear behaviour of LM13 Al-Si alloy based composites reinforced with synthetic (B4C) and natural (ilmenite) ceramic particles	GUPTA R., NANDA T., PANDEY O.P.	GUPTA, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; NANDA, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; PANDEY, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Transactions of Nonferrous Metals Society of China (English Edition)	2021	10036326
3537	Modeling of surfactant-enhanced drying of poly(Styrene)-p-xylene polymeric coatings using machine learning technique	Arya R.K., Sharma J., Shrivastava R., Thapliyal D., Verros G.D.	Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shrivastava, R., Department of Chemical Engineering, Jaypee University of Engineering and Technology, Guna, 473226, India; Thapliyal, D., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Verros, G.D., Department of Chemistry, Aristotle University of Thessaloniki, P.O. Box 454, Epanomi, 57500, Greece	Coatings	2021	20796412
3538	Complex invariants for some time-independent and time-dependent classical systems	Kumar N., Bhardwaj S.B., Bhardwaj D., Singh R.M., Chand F.	Kumar, N., Department of Physics, Government College, Jind, 126102, India; Bhardwaj, S.B., Department of Physics, SUS Govt College, Matak-Majri, Indri, Karnal, 132041, India; Bhardwaj, D., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, R.M., Department of Physics, Chaudhary Devi Lal University, Sirsa, 125055, India; Chand, F., Department of Physics, Kurukshetra University, Kurukshetra, 136118, India	Reports on Mathematical Physics	2021	344877
3539	Congruences For Sixth Order Mock Theta Functions $\lambda(q)$ A And $\rho(q)$	Kaur H., Rana M.	Kaur, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electronic Research Archive	2021	26881594

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3540	Assessment of positional error and hole quality during vibration-based drilling of aerospace alloy	Singh M., Dhiman S., Singh H., Berndt C.C.	Singh, M., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, India, Department of Mechanical Engineering and Product Design Engineering, Swinburne University of Technology, Surface Engineering for Advanced Materials, Hawthorn, VIC, Australia; Dhiman, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, India; Berndt, C.C., Department of Mechanical Engineering and Product Design Engineering, Swinburne University of Technology, Surface Engineering for Advanced Materials, Hawthorn, VIC, Australia	Journal of Mechanical Science and Technology	2021	1738494X
3541	Design and Development of SODAR Antenna Structure	Kumar N., Soni K., Agarwal R.	Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India, CSIR-National Physical Laboratory, New Delhi, India; Soni, K., CSIR-National Physical Laboratory, New Delhi, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Mapan - Journal of Metrology Society of India	2021	9703950
3542	Magnetorheological finishing of polyamide materials for improving their functional performance	Arora K., Singh A.K.	Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2021	16785878
3543	Gut microbiota as a mediator of essential and toxic effects of zinc in the intestines and other tissues	Skalny A.V., Aschner M., Lei X.G., Gritsenko V.A., Santamaria A., Alekseenko S.I., Prakash N.T., Chang J.-S., Sizova E.A., Chao J.C.J., Aaseth J., Tinkov A.A.	Skalny, A.V., Laboratory of Molecular Dietetics, World-Class Research Center, Digital Biodesign and Personalized Healthcare, IM Sechenov First Moscow State Medical University (Sechenov University), Moscow, 119146, Russian Federation, Department of Bioelementology, K.G. Razumovsky Moscow State University of Technologies and Management, Moscow, 109004, Russian Federation; Aschner, M., Laboratory of Molecular Dietetics, World-Class Research Center, Digital Biodesign and Personalized Healthcare, IM Sechenov First Moscow State Medical University (Sechenov University), Moscow, 119146, Russian Federation, Department of Molecular Pharmacology, Albert Einstein College of Medicine, Bronx, NY 10461, United States; Lei, X.G., Department of Animal Science, Cornell University, Ithaca, NY 14853, United States; Gritsenko, V.A., Institute of Cellular and Intracellular Symbiosis, Russian Academy of Sciences, Orenburg, 460000, Russian Federation; Santamaria, A., Laboratorio de Aminoácidos Excitadores/Laboratorio de Neurofarmacología Molecular y Nanotecnología, Instituto Nacional de Neurología y Neurocirugía, Mexico City, 14269, Mexico; Alekseenko, S.I., Saint-Petersburg Research Institute of Ear, Throat, Nose and Speech, St. Petersburg, 190013, Russian Federation, Department of Otorhinolaryngology, I.I. Mechnikov North-Western State Medical University, St. Petersburg, 195067, Russian Federation, K.A. Raikhfus Children's City Multidisciplinary Clinical Center for High Medical Technologies, St. Petersburg, 191036, Russian Federation; Prakash, N.T., School of Energy and Environment, Thapar Institute Engineering and Technology, Patiala, Punjab, 147004, India; Chang, J.-S., School of Nutrition and Health Sciences, College of Nutrition, Taipei Medical University, Taipei, 110, Taiwan, Graduate Institute of Metabolism and Obesity Sciences, College of Nutrition, Taipei Medical University, Taipei, 110, Taiwan; Sizova, E.A., Federal Research Centre of Biological Systems and Agro-technologies of the Russian Academy of Sciences, Orenburg, 460000, Russian Federation; Chao, J.C.J., School of Nutrition and Health Sciences, College of Nutrition, Taipei Medical University, Taipei, 110, Taiwan, Nutrition Research Center, Taipei Medical University Hospital, Taipei, 110, Taiwan; Aaseth, J., Laboratory of Molecular Dietetics, World-Class Research Center, Digital Biodesign and Personalized Healthcare, IM Sechenov First Moscow State Medical University (Sechenov University), Moscow, 119146, Russian Federation, Research Department, Innlandet Hospital Trust, Brumunddal, 2380, Norway; Tinkov, A.A., Laboratory of Molecular Dietetics, World-Class Research Center, Digital Biodesign and Personalized Healthcare, IM Sechenov First Moscow State Medical University (Sechenov University), Moscow, 119146, Russian Federation, Laboratory of Ecobiomonitoring and Quality Control, Yaroslavl State University, Sovetskaya Str. 14, Yaroslavl, 150000, Russian Federation	International Journal of Molecular Sciences	2021	16616596
3544	ATP binding cassette transporters and cancer: Revisiting their controversial role	Sharma P., Singh N., Sharma S.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Pharmacogenomics	2021	14622416
3545	Genetic polymorphisms in the mEH gene in relation to tobacco smoking: role in lung cancer susceptibility and survival in north Indian patients with lung cancer undergoing platinum-based chemotherapy	Walia H.K., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Future Oncology	2021	14796694
3546	BCPPA: A Blockchain-Based Conditional Privacy-Preserving Authentication Protocol for Vehicular Ad Hoc Networks	Lin C., He D., Huang X., Kumar N., Choo K.-K.R.	Lin, C., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; Huang, X., School of Mathematics and Computer Science, Fujian Normal University, Fuzhou, 350117, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Transactions on Intelligent Transportation Systems	2021	15249050

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3547	Parameter extraction of solar PV cell models using novel metaheuristic chaotic tunicate swarm algorithm	Gupta J., Nijhawan P., Ganguli S.	Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Transactions on Electrical Energy Systems	2021	20507038
3548	Detection of breast tumor using inset-fed microstrip patch antenna at MICS band for implantable applications	Singh G., Kaur J., Kaur S.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kaur, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
3549	Effect of self-heating on small-signal parameters of In0.53Ga0.47As based gate-all-around MOSFETs	Srinivas P.S.T.N., Kumar A., Tiwari P.K.	Srinivas, P.S.T.N., EE Department, IIT Patna, Bihta, Bihar801106, India; Kumar, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Tiwari, P.K., EE Department, IIT Patna, Bihta, Bihar801106, India	Semiconductor Science and Technology	2021	2681242
3550	An efficient scheme for battery assisted solar energized uninterrupted water supply utilizing switched reluctance motor drive	Mishra A.K., Singh B.	Mishra, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology (IIT) Delhi, New Delhi, India	International Transactions on Electrical Energy Systems	2021	20507038
3551	Improving performance of Cu2ZnSnS4 solar cell via back contact interface engineering	Jyoti, Mohanty B.C.	Jyoti, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Solar Energy	2021	0038092X
3552	On Symmetries and Conservation Laws of Einstein–Maxwell Equations for Non-static Cylindrical Symmetric Metric	Gupta R.K., Kaur B.	Gupta, R.K., Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana 123031, India; Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Applied and Computational Mathematics	2021	23495103
3553	Mechanical and corrosion behavior of SiC/Graphite/ZrO2 hybrid reinforced aluminum-based composites for marine environment	Yadav S., Gangwar S., Yadav P.C., Pathak V.K., Sahu S.	Yadav, S., Department of Mechanical Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur, 273010, India; Gangwar, S., Department of Mechanical Engineering, Netaji Subhas University of Technology, New Delhi, 110078, India; Yadav, P.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pathak, V.K., Department of Mechanical Engineering, Manipal University Jaipur, Rajasthan, Jaipur, 303007, India; Sahu, S., Department of Mechanical Engineering, University of Southampton, Highfield Campus, Southampton, SO17 1BJ, United Kingdom	Surface Topography: Metrology and Properties	2021	2051672X
3554	GSTP1 Ile105Val polymorphism among North Indian lung cancer patients treated using monotherapy and poly-pharmacy	Walia H.K., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Human and Experimental Toxicology	2021	9603271
3555	Guest Editorial: Special Section on Embracing Artificial Intelligence for Network and Service Management	Lutfiyya H., Birke R., Casale G., Dhamdhare A., Hwang J., Inoue T., Kumar N., Puthal D., Zincir-Heywood N.	Lutfiyya, H., Department of Computer Science, Western University, London, ON N6A 3K7, Canada; Birke, R., Abb Research, Baden, 5405, Switzerland; Casale, G., Department of Computing, Imperial College London, London, SW7 2BX, United Kingdom; Dhamdhare, A., Amazon Web Services, Amazon.com Inc., Seattle, WA, Usa, United States; Hwang, J., Facebook, New York, NY 10003, United States; Inoue, T., Ntt Network Innovation Laboratories, Ntt Corporation, Yokosuka, Japan, Japan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Puthal, D., School of Computing, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom; Zincir-Heywood, N., Department of Computer Science, Dalhousie University, Halifax, NS B3H 4R2, Canada	IEEE Transactions on Network and Service Management	2021	19324537
3556	Kinetic modelling and process engineering of phenolics microbial and enzymatic biodegradation: A current outlook and challenges	Priyadarshini A., Sahoo M.M., Raut P.R., Mahanty B., Sahoo N.K.	Priyadarshini, A., Department of Chemistry, Environmental Science Program, (ITER), Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, Odisha 751030, India; Sahoo, M.M., Centre for Biotechnology, Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, Odisha 751 030, India; Raut, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Mahanty, B., Department of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore, 641114, India; Sahoo, N.K., Department of Chemistry, Environmental Science Program, (ITER), Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, Odisha 751030, India	Journal of Water Process Engineering	2021	22147144

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3557	Multimachine stability enhancement with hybrid PSO-BFOA based PV-STATCOM	Kumar R., Diwania S., Khetrapal P., Singh S., Badoni M.	Kumar, R., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, India, Electrical and Electronics Engineering Department, Krishna Institute of Engineering and Technology, Ghaziabad, India; Diwania, S., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, India, Electrical and Electronics Engineering Department, Krishna Institute of Engineering and Technology, Ghaziabad, India; Khetrapal, P., Electrical and Electronics Engineering Department, SRM Institute of Science & Technology, Modinagar, India; Singh, S., Electrical and Electronics Engineering Department, Krishna Institute of Engineering and Technology, Ghaziabad, India; Badoni, M., Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Sustainable Computing: Informatics and Systems	2021	22105379
3558	Energy efficient Gaussian filtering for multimedia applications using novel approximate address	Garg B.	Garg, B., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
3559	A Hybrid Deep Reinforcement Learning for Autonomous Vehicles Smart-Platooning	Prathiba S.B., Raja G., Dev K., Kumar N., Guizani M.	Prathiba, S.B., NGNLab, Department of Computer Technology, Anna University, Chennai, 600025, India; Raja, G., NGNLab, Department of Computer Technology, Anna University, Chennai, 600025, India; Dev, K., Department of Institute of Intelligent Systems, University of Johannesburg, Auckland Park2006, South Africa; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung city, 40704, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Guizani, M., Qatar University, Doha, 122104, Qatar	IEEE Transactions on Vehicular Technology	2021	189545
3560	Evolutionary dynamics of rock-paper-scissors game in the patchy network with mutations	Verma T., Gupta A.K.	Verma, T., School of Mathematics, Thapar Institute of Engineering and Technology PatialaPunjab 147004, India; Gupta, A.K., Department of Mathematics, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India	Chaos, Solitons and Fractals	2021	9600779
3561	Multi-population and dynamic-iterative cuckoo search algorithm for linear antenna array synthesis	Salgotra R., Abouhawwash M., Singh U., Saha S., Mittal N., Mahajan S., Pandit A.K.	Salgotra, R., Department of Electronics & Communication Engineering, Thapar UniversityPunjab, India; Abouhawwash, M., Department of Mathematics, Faculty of Science, Mansoura University, Mansoura, 35516, Egypt, Department of Computational Mathematics, Science, and Engineering (CMSE), Michigan State University, East LansingMI 48824, United States; Singh, U., Department of Electronics & Communication Engineering, Thapar UniversityPunjab, India; Saha, S., Department of Computer Science, Indian Institute of Technology, Patna, India; Mittal, N., Electronics & Communication Engineering Department, Chandigarh UniversityPunjab, India; Mahajan, S., School of Electronics & Communication, Shri Mata Vaishno Devi University, Katra, India; Pandit, A.K., School of Electronics & Communication, Shri Mata Vaishno Devi University, Katra, India	Applied Soft Computing	2021	15684946
3562	Parameter Estimation of Fuel Cell Using Chaotic Mayflies Optimization Algorithm	Gupta J., Nijhawan P., Ganguli S.	Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	Advanced Theory and Simulations	2021	25130390
3563	Resource management of IoT edge devices: Challenges, techniques, and solutions	Kumar N., Jindal A., Villari M., Srirama S.N.	Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Jindal, A., School of Computer Science and Electronic Engineering, University of Essex, Essex, United Kingdom; Villari, M., Faculty of Engineering, University of Messina, Messina, Italy; Srirama, S.N., Institute of Computer Science, University of Tartu, Tartu, Estonia, School of Computer and Information Sciences, University of Hyderabad, India	Software - Practice and Experience	2021	380644
3564	Overexpression of sucrose synthase enhances cellulose content in transgenic Populus deltoides Bartr. ex Marsh	Sharma S., Kumar A., Reddy M.S.	Sharma, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, TIFAC-CORE Building, Thapar University, Patiala, Punjab 147001, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, TIFAC-CORE Building, Thapar University, Patiala, Punjab 147001, India; Reddy, M.S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, TIFAC-CORE Building, Thapar University, Patiala, Punjab 147001, India	Revista Brasileira de Botanica	2021	1008404
3565	Role of thermal spray in combating climate change	Viswanathan V., Katiyar N.K., Goel G., Matthews A., Goel S.	Viswanathan, V., London South Bank University, 103 Borough Road, London, SE1 0AA, United Kingdom; Katiyar, N.K., London South Bank University, 103 Borough Road, London, SE1 0AA, United Kingdom; Goel, G., Thapar Institute of Engineering Technology, Patiala, 147004, India; Matthews, A., The University of Manchester, Manchester, M13 9PL, United Kingdom; Goel, S., London South Bank University, 103 Borough Road, London, SE1 0AA, United Kingdom, Cranfield University, Cranfield, MK430AL, United Kingdom, Shiv Nadar University, Gautam Budh Nagar, 201314, India, Indian Institute of Technology Guwahati, Guwahati, 781039, India, University of Petroleum and Energy Studies, Dehradun, 248007, India, Harbin Institute of Technology, Heilongjiang, Harbin, 150001, China	Emergent Materials	2021	2525731

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3566	Efficient multi-objective differential-evolution-based clustering protocol	Joshi U., Kumar R.	Joshi, U., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
3567	A novel low-input-resistance, high-output-resistance and wide-bandwidth current mirror using class-AB FVF cell	Jindal C., Pandey R.	Jindal, C., Department of ECE, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Pandey, R., Department of ECE, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
3568	Mechanical Properties of Selective Laser Melted CoCr Alloys: A Review	Saini J.S., Dowling L., Trimble D., Singh D.	Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Dowling, L., Department of Mechanical and Manufacturing Engineering, Trinity College, The University of Dublin, Dublin 2, Ireland; Trimble, D., Department of Mechanical and Manufacturing Engineering, Trinity College, The University of Dublin, Dublin 2, Ireland; Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Engineering and Performance	2021	10599495
3569	Single-mode optical fiber: An investigation for the bending loss at wavelength 650 nm	Dhupar A., Kumar S., Mittal K., Anu, Sharma S.K., Sharma V., Sharma J.K.	Dhupar, A., Department of Physics, Chandigarh University, Mohali, Punjab, Gharaun, 140413, India; Kumar, S., Department of Physics, MMEC, Maharishi Markandeshwar (Deemed to be University), Haryana, Mullana, 133207, India, Department of Physics, Maharishi Markandeshwar University, Ambala, Haryana, Sadopur, 134007, India; Mittal, K., Department of Physics, Maharishi Markandeshwar University, Ambala, Haryana, Sadopur, 134007, India; Anu, School of Physics and Materials Science, Thapar University, Punjab, Patiala, 147004, India; Sharma, S.K., School of ICT, Gautam Buddha University, Uttar Pradesh, Greater Noida, 201308, India; Sharma, V., Department of Physics, MMEC, Maharishi Markandeshwar (Deemed to be University), Haryana, Mullana, 133207, India; Sharma, J.K., Department of Physics, MMEC, Maharishi Markandeshwar (Deemed to be University), Haryana, Mullana, 133207, India	Jordan Journal of Physics	2021	19947607
3570	Development of titanium dioxide incorporated ultrathin cellulose acetate membrane for enhanced forward osmosis performance	Jain H., Dhupper R., Verma A.K., Garg M.C.	Jain, H., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector-125, Noida, Uttar Pradesh 201313, India; Dhupper, R., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector-125, Noida, Uttar Pradesh 201313, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab 147005, India; Garg, M.C., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector-125, Noida, Uttar Pradesh 201313, India	Nanotechnology for Environmental Engineering	2021	23656379
3571	Performance of Copper Sulfide Hollow Rods in a Supercapacitor Based on Flexible Substrates	Garg R., Agarwal A., Agarwal M.	Garg, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Electronic Materials	2021	3615235
3572	A flicker-free decoupled ripple cancellation technique for LED driver circuits	Barwar M.K., Sahu L.K., Bhatnagar P., Gupta K.K., Chander A.H.	Barwar, M.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chander, A.H., Department of Electrical and Electronics Engineering, National Institute of Technology, Puducherry, India	Optik	2021	304026
3573	2D materials and its heterostructured photocatalysts: Synthesis, properties, functionalization and applications in environmental remediation	Garg A., Basu S., Shetti N.P., Reddy K.R.	Garg, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyannagar, Hubballi, Karnataka 580031, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Journal of Environmental Chemical Engineering	2021	22133437
3574	Comparison between a single unit bioreactor and an integrated bioreactor for nutrient removal from domestic wastewater	Rout P.R., Dash R.R., Bhunia P., Lee E., Bae J.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Dash, R.R., School of Infrastructure, Indian Institute of Technology BhubaneswarOdisha, India; Bhunia, P., School of Infrastructure, Indian Institute of Technology BhubaneswarOdisha, India; Lee, E., Department of Environmental Engineering, Inha University, Incheon, South Korea; Bae, J., Department of Environmental Engineering, Inha University, Incheon, South Korea	Sustainable Energy Technologies and Assessments	2021	22131388
3575	Design of all-optical shift registers using D flip flop based on semiconductor optical amplifiers at 100 Gb/s	Nair N., Kaur S., Singh H.	Nair, N., Amity School of Engineering & Technology, Amity University, Noida, 201203, India; Kaur, S., Amity School of Engineering & Technology, Amity University, Noida, 201203, India; Singh, H., Thapar Institute of Engineering and Technology, Patiala, Punjab 144603, India	Optik	2021	304026
3576	Visibly active Fe-TiO2 composite: A stable and efficient catalyst for the catalytic disinfection of water using a once-through reactor	Thakur I., Verma A., Örmeci B.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada	Journal of Environmental Chemical Engineering	2021	22133437

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3577	Performance enhancement of recessed silicon channel double gate junctionless field-effect-transistor using TCAD tool	Kumar S., Chatterjee A.K., Pandey R.	Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Chatterjee, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Journal of Computational Electronics	2021	15698025
3578	Damage progression in RC beam-column joints under cyclic loading using acoustic emission technique	Singh S., Sharma S., Kwatra N.	Singh, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Structural Concrete	2021	14644177
3579	Blockchain-Based Data Dissemination Scheme for 5G-Enabled Software Defined UAV Networks	Gupta R., Patel M.M., Tanwar S., Kumar N., Zeadally S.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Patel, M.M., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY, United States	IEEE Transactions on Green Communications and Networking	2021	24732400
3580	A comprehensive study on the influence of supplementary cementitious materials on physico-mechanical, microstructural and durability properties of low carbon cement composites	Anurag, Kumar R., Goyal S., Srivastava A.	Anurag, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Organic Building Materials (OBM) Group, CSIR-Central Building Research Institute, Roorkee, Uttarakhand 247 667, India; Goyal, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Srivastava, A., Organic Building Materials (OBM) Group, CSIR-Central Building Research Institute, Roorkee, Uttarakhand 247 667, India	Powder Technology	2021	325910
3581	Clickjacking: Beware of Clicking	Sahani R., Randhawa S.	Sahani, R., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India; Randhawa, S., Computer Science and Engineering Department, Thapar University, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
3582	Influence of porosity distribution on static and buckling responses of porous functionally graded plates	Dhuria M., Grover N., Goyal K.	Dhuria, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Grover, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Structures	2021	23520124
3583	Corrigendum to "Greenhouse gas emissions in sludge ultrasonication followed by anaerobic digestion processes" [Bioresour. Technol. 341 (2021) (1–9) 125754] (Bioresour. Technol. (2021) 341, (S0960852421010956), (10.1016/j.biortech.2021.125754))	Sridhar P., Tyagi R.D., Bhunia P., Rout P.R., Zhang T.C., Surampalli R.Y.	Sridhar, P., Department of Civil Engineering, National Institute of Technology Warangal, Warangal, India; Tyagi, R.D., BOSK Bioproducts, Academician- European Academy of Arts and Sciences, Member Hall of Excellence of University of Quebec, Canada; Bhunia, P., School of Infrastructure, Indian Institute of Technology Bhubaneswar, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Zhang, T.C., Civil and Environmental Engineering, University of Nebraska-Lincoln, Omaha, United States; Surampalli, R.Y., Global Institute for Energy, Environment and Sustainability, KS, United States	Bioresour. Technol.	2021	9608524
3584	Semantic segmentation of high-resolution satellite images using deep learning	Chaurasia K., Nandy R., Pawar O., Singh R.R., Ahire M.	Chaurasia, K., Bennett University, Gautambudh nagar, Uttar Pradesh, India; Nandy, R., Thapar University, Patiala, Punjab, India; Pawar, O., Delhi Technical Campus, Delhi, India; Singh, R.R., K. J. Somaiya Institute of Engineering and Information Technology, Mumbai, India; Ahire, M., University of Mumbai, Maharashtra, India	Earth Science Informatics	2021	18650473
3585	A new approach to find gouge free tool positions for a toroidal cutter for Bézier surfaces in five-axis machining	Singh M., Qu J., Duvedi R.K., Bedi S., Mann S.	Singh, M., University of Waterloo, Waterloo, ON, Canada; Qu, J., University of Waterloo, Waterloo, ON, Canada; Duvedi, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Advanced Manufacturing Technology	2021	2683768
3586	Probabilistic linguistic q-rung orthopair fuzzy Generalized Dombi and Bonferroni mean operators for group decision-making with unknown weights of experts	Saha A., Garg H., Dutta D.	Saha, A., Department of Mathematics, Techno College of Engineering, Agartala, Tripura, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, India; Dutta, D., Department of Basic and Applied Science, NIT, Yupia, Arunachal Pradesh, India	International Journal of Intelligent Systems	2021	8848173
3587	Review on silicate and borosilicate-based glass sealants and their interaction with components of solid oxide fuel cell	Singh K., Walia T.	Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Walia, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Energy Research	2021	0363907X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3588	High Frequency Electronically Tunable Floating Memristor Emulators employing VDGA and Grounded Capacitor	Yadav N., Rai S.K., Pandey R.	Yadav, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
3589	Enhanced photocatalytic degradation of eco-toxic pharmaceutical waste diclofenac sodium by anion loaded Cu-Al LDH-Bi2O3 composites	Kumari P., Das R.K., Pal B.	Kumari, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Das, R.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of the Taiwan Institute of Chemical Engineers	2021	18761070
3590	Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C3N4)	Aggarwal M., Basu S., Shetti N.P., Nadagouda M.N., Kwon E.E., Park Y.-K., Aminabhavi T.M.	Aggarwal, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India; Nadagouda, M.N., Department of Mechanical and Materials Engineering, Wright State University, Dayton, OH 45435, United States; Kwon, E.E., Department of Environment and Energy, Sejong University, Seoul, 05006, South Korea; Park, Y.-K., School of Environmental Engineering, University of Seoul, Seoul, 02504, South Korea; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India, Department of Chemistry, Karnatak University, Dharwad, 580 003, India	Chemical Engineering Journal	2021	13858947
3591	Analysis of simultaneous visual and complex neural dynamics during cognitive learning to diagnose ASD	Wadhera T., Kakkar D.	Wadhera, T., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kakkar, D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Physical and Engineering Sciences in Medicine	2021	26624729
3592	Photocatalytic conversion of CO2 into valuable products using emerging two-dimensional graphene-based nanomaterials: A step towards sustainability	Aggarwal M., Basu S., Shetti N.P., Nadagouda M.N., Aminabhavi T.M.	Aggarwal, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India; Nadagouda, M.N., Department of Mechanical and Materials Engineering, Wright State University, Dayton, OH 45435, United States; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India, Department of Chemistry, Karnatak University, Dharwad, 580 003, India	Chemical Engineering Journal	2021	13858947
3593	Effect of Dual Particle Size Corundum Particles on the Tribological Properties of LM30 Aluminium Alloy Composites for Brake Rotor Applications	Mann V.S., Pandey O.P.	Mann, V.S., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2021	2193567X
3594	A novel and efficient deep learning approach for COVID-19 detection using X-ray imaging modality	Bhardwaj P., Kaur A.	Bhardwaj, P., Electronics and Communication, Thapar University, Patiala, India; Kaur, A., Electronics and Communication, Thapar University, Patiala, India	International Journal of Imaging Systems and Technology	2021	8999457
3595	Triband Millimeter-wave Antenna for 5G Mobile Communications	Chaudhary S., Kansal A.	Chaudhary, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2021	22286179
3596	Triple band-notched UWB antenna design using a novel hybrid optimization technique based on DE and NMR algorithms	Singh G., Singh U.	Singh, G., Department of ECE, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Singh, U., Department of ECE, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	Expert Systems with Applications	2021	9574174
3597	Dimensionally stable anode (Doped-MMO) mediated electro-oxidation and multi-response optimization study for remediation of urea wastewater	Singla J., Thakur I., Sangal V., Verma A.	Singla, J., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Chemosphere	2021	456535
3598	VDCC-Based Memcapacitor/Meminductor Emulator and Its Application in Adaptive Learning Circuit	Singh A., Rai S.K.	Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2021	22286179

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3599	PROTECTOR: An optimized deep learning-based framework for image spam detection and prevention	Makkar A., Kumar N.	Makkar, A., Computer Science Engineering Department, Chandigarh University, Chandigarh, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, King Abdulaziz University, Jeddah, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	Future Generation Computer Systems	2021	0167739X
3600	FedDPGAN: Federated Differentially Private Generative Adversarial Networks Framework for the Detection of COVID-19 Pneumonia	Zhang L., Shen B., Barnawi A., Xi S., Kumar N., Wu Y.	Zhang, L., School of Data Science and Technology, Heilongjiang University, Harbin, 150080, China; Shen, B., School of Data Science and Technology, Heilongjiang University, Harbin, 150080, China; Barnawi, A., King Abdul Aziz University, Riyadh, 11543, Saudi Arabia; Xi, S., School of Data Science and Technology, Heilongjiang University, Harbin, 150080, China; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Department of Computer Science and Information Engineering, Asia University, Taiwan; Wu, Y., School of Data Science and Technology, Heilongjiang University, Harbin, 150080, China	Information Systems Frontiers	2021	13873326
3601	Energy Consumption Minimization Scheme for NOMA-Based Mobile Edge Computation Networks Underlying UAV	Budhiraja I., Kumar N., Tyagi S., Tanwar S.	Budhiraja, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 160012, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 160012, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University Taiwan, Taichung City, 413, Taiwan, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 160012, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India	IEEE Systems Journal	2021	19328184
3602	Investigating the nonlinear performance of corroded reinforced concrete beams	Meet S., Trishna C., Naveen K.	Meet, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Trishna, C., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Naveen, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Building Engineering	2021	23527102
3603	Tumor reversion: a dream or a reality	Tripathi A., Kashyap A., Tripathi G., Yadav J., Bibban R., Aggarwal N., Thakur K., Chhokar A., Jadli M., Sah A.K., Verma Y., Zayed H., Husain A., Bharti A.C., Kashyap M.K.	Tripathi, A., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Haryana, Manesar (Gurugram) -122413, India; Kashyap, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Tripathi, G., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Haryana, Manesar (Gurugram) -122413, India; Yadav, J., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Bibban, R., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Aggarwal, N., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Thakur, K., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Chhokar, A., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Jadli, M., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Sah, A.K., Department of Medical Laboratory Technology, Amity Medical School, Amity University Haryana, Panchgaon, Haryana, Manesar (Gurugram), India, Department of Pathology and Laboratory Medicine, Medanta-The Medicity, Haryana, Gurugram, India; Verma, Y., Department of Toxicology, C C S University, Meerut, UP 250004, India; Zayed, H., Department of Biomedical Sciences, College of Health Sciences, QU Health, Qatar University, Doha, Qatar; Husain, A., Centre for Science & Society, Indian Institute of Science Education and Research (IISER), Bhopal, India, Innovation and Incubation Centre for Entrepreneurship (IICE), Indian Institute of Science Education and Research (IISER), Bhopal, India; Bharti, A.C., Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India; Kashyap, M.K., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Haryana, Manesar (Gurugram) -122413, India, Department of Zoology, Molecular Oncology Laboratory, University of Delhi (North Campus), New Delhi, 110007, India	Biomarker Research	2021	20507771
3604	Assessment of municipal solid waste management system in Lae City, Papua New Guinea in the context of sustainable development	Doaemo W., Dhiman S., Borovskis A., Zhang W., Bhat S., Jaipuria S., Betasolo M.	Doaemo, W., Department of Civil Engineering, Papua New Guinea University of Technology, Lae, 00411, Papua New Guinea, Morobe Development Foundation, Doyle Street, Trish Avenue-Eriku, Lae, 00411, Papua New Guinea; Dhiman, S., United Nations Volunteering Program, Morobe Development Foundation, Lae, 00411, Papua New Guinea, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab 147004, India; Borovskis, A., United Nations Volunteering Program, Morobe Development Foundation, Lae, 00411, Papua New Guinea, Helixos (Sydney), Sydney, Australia; Zhang, W., United Nations Volunteering Program, Morobe Development Foundation, Lae, 00411, Papua New Guinea, Centre for Environmental Policy, Imperial College London, London, United Kingdom; Bhat, S., United Nations Volunteering Program, Morobe Development Foundation, Lae, 00411, Papua New Guinea, Department of Chemistry, University of California, Berkeley, CA, United States; Jaipuria, S., United Nations Volunteering Program, Morobe Development Foundation, Lae, 00411, Papua New Guinea, Urban Planning Department, College of Engineering, Pune, India; Betasolo, M., Department of Civil Engineering, Papua New Guinea University of Technology, Lae, 00411, Papua New Guinea	Environment, Development and Sustainability	2021	1387585X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3605	Quaternions-based detection of power quality events	Kapoor R., Verma S., Kapoor A.	Kapoor, R., Delhi Technological University, New Delhi, India; Verma, S., Delhi Technological University, New Delhi, India; Kapoor, A., Thapar Institute of Engineering, Patiala, India	Electrical Engineering	2021	9487921
3606	ELECTRE-II method for group decision-making in Pythagorean fuzzy environment	Akram M., Ilyas F., Garg H.	Akram, M., Department of Mathematics, University of the Punjab, New Campus, Lahore, 4590, Pakistan; Ilyas, F., Department of Mathematics, University of the Punjab, New Campus, Lahore, 4590, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	Applied Intelligence	2021	0924669X
3607	Energy-Delay Tradeoff Scheme for NOMA-Based D2D Groups with WPCNs	Budhiraja I., Kumar N., Tyagi S.	Budhiraja, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India	IEEE Systems Journal	2021	19328184
3608	LBA-PAKE: Lattice-Based Anonymous Password Authenticated Key Exchange for Mobile Devices	Dabra V., Bala A., Kumari S.	Dabra, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumari, S., Department of Mathematics, Chaudhary Charan Singh University, Meerut, 250004, India	IEEE Systems Journal	2021	19328184
3609	Ensemble Technique for Toxicity Prediction of Small Drug Molecules of the Antioxidant Response Element Signalling Pathway	Gupta V.K., Rana P.S.	Gupta, V.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Computer Journal	2021	104620
3610	LORAX: A High-speed Energy-efficient Lower-Order Rounding-based Approximate Multiplier	Satti P., Agrawal P., Garg B.	Satti, P., Thapar Institute of Engineering and Technology, Patiala, India; Agrawal, P., Thapar Institute of Engineering and Technology, Patiala, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India	National Academy Science Letters	2021	0250541X
3611	Computational Techniques and Tools for Omics Data Analysis: State-of-the-Art, Challenges, and Future Directions	Kaur P., Singh A., Chana I.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Archives of Computational Methods in Engineering	2021	11343060
3612	Single Image Defogging using Deep Learning Techniques: Past, Present and Future	Sharma N., Kumar V., Singla S.K.	Sharma, N., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India; Kumar, V., Department of Computer Science and Engineering, NIT Hamirpur, Hamirpur, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Archives of Computational Methods in Engineering	2021	11343060
3613	A Systematic Review of Applications of Machine Learning in Cancer Prediction and Diagnosis	Sharma A., Rani R.	Sharma, A., CS/IT, Jaypee University of Information Technology, Solan, H.P, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Archives of Computational Methods in Engineering	2021	11343060
3614	HeDI: Healthcare Device Interoperability for IoT-Based e-Health Platforms	Pathak N., Misra S., Mukherjee A., Kumar N.	Pathak, N., Advanced Technology Development Center, Indian Institute of Technology Kharagpur, Kharagpur, India; Misra, S., Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, Kharagpur, India; Mukherjee, A., Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, Kharagpur, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, The Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan	IEEE Internet of Things Journal	2021	23274662
3615	Fuzzy Detection System for Rumors through Explainable Adaptive Learning	Guo Z., Yu K., Jolfaei A., Bashir A.K., Almagrabi A.O., Kumar N.	Guo, Z., Chongqing Engineering Laboratory for Detection Control and Integrated System, National Research Base of Intelligent Manufacturing Service, Chongqing Technology and Business University, Chongqing, China; Yu, K., Global Information and Telecommunication Institute, Waseda University, Tokyo, Japan, School of Electrical Engineering and Computer Science (SEECs), National University of Science and Technology (NUST), Islamabad, 44000, Pakistan, School of Information and Communication Engineering, University of Electronics Science and Technology of China (UESTC), Chengdu, 611731, China; Jolfaei, A., Department of Computing, Macquarie University, Sydney, NSW, Australia; Bashir, A.K., Department of Computing and Mathematics, Manchester Metropolitan University, Manchester, United Kingdom; Almagrabi, A.O., Department of Information Systems, Faculty of Computing and Information Technology (FCIT), King Abdul Aziz University (KAU), Jeddah, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computing, University of Petroleum and Energy Studies, Dehradun, 248007, India	IEEE Transactions on Fuzzy Systems	2021	10636706

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3616	The Impact of Employees' Gender and Age on Organizational Citizenship Behavior Using a Fuzzy Approach	Ajlouni W.M.E., Kaur G., Alomari S.A.	Ajlouni, W.M.E., Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Kaur, G., Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Alomari, S.A., Jadara University, Irbid, Jordan	Social Science Computer Review	2021	8944393
3617	A novel approach to predict stock market price using radial basis function network	Kumar R., Srivastava S., Dass A., Srivastava S.	Kumar, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Srivastava, S., Division of Information Technology, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Dass, A., Division of Instrumentation and Control, Netaji Subhas Institute of Technology, New Delhi, 110078, India; Srivastava, S., Division of Instrumentation and Control, Netaji Subhas Institute of Technology, New Delhi, 110078, India	International Journal of Information Technology (Singapore)	2021	25112104
3618	Performance evaluation of distance metrics on Firefly Algorithm for VRP with time windows	Aggarwal D., Kumar V.	Aggarwal, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, Himachal Pradesh 177005, India	International Journal of Information Technology (Singapore)	2021	25112104
3619	Novel correlation coefficient between hesitant fuzzy sets with application to medical diagnosis	Liu X., Wang Z., Zhang S., Garg H.	Liu, X., School of Mathematics and Physics, Anhui University of Technology, Ma'anshan, Anhui, 243002, China; Wang, Z., Researching Center of Social Security, Wuhan University, Wuhan, Hubei 430072, China; Zhang, S., School of Mathematics and Physics, Anhui University of Technology, Ma'anshan, Anhui, 243002, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Expert Systems with Applications	2021	9574174
3620	Anisotropic strain in epitaxial single-layer molybdenum disulfide on Ag(110)	Bignardi L., Mahatha S.K., Lizzit D., Bana H., Travaglia E., Lacovig P., Sanders C., Baraldi A., Hofmann P., Lizzit S.	Bignardi, L., Department of Physics, University of Trieste, via Valerio 2, Trieste, 34127, Italy, Elettra Sincrotrone Trieste, Strada Statale 14 km. 163.5 in AREA Science Park, Trieste, 34149, Italy; Mahatha, S.K., Department of Physics and Astronomy, Interdisciplinary Nanoscience Center (INANO), Aarhus University, Ny Munkegade 120, Aarhus C, 8000, Denmark, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Lizzit, D., Elettra Sincrotrone Trieste, Strada Statale 14 km. 163.5 in AREA Science Park, Trieste, 34149, Italy, Dipartimento Politecnico di Ingegneria e Architettura, University of Udine, Udine, 33100, Italy; Bana, H., Department of Physics, University of Trieste, via Valerio 2, Trieste, 34127, Italy, Quantum Solid State Physics, KU Leuven, Leuven, 3001, Belgium; Travaglia, E., Department of Physics, University of Trieste, via Valerio 2, Trieste, 34127, Italy, IOM-CNR, Laboratorio TASC, AREA Science Park, Strada Statale 14, km. 163.5, Trieste, 34149, Italy; Lacovig, P., Elettra Sincrotrone Trieste, Strada Statale 14 km. 163.5 in AREA Science Park, Trieste, 34149, Italy; Sanders, C., Department of Physics and Astronomy, Interdisciplinary Nanoscience Center (INANO), Aarhus University, Ny Munkegade 120, Aarhus C, 8000, Denmark, STFC Central Laser Facility, Research Complex at Harwell, Harwell Campus, Didcot, OX11 0QX, United Kingdom; Baraldi, A., Department of Physics, University of Trieste, via Valerio 2, Trieste, 34127, Italy, Elettra Sincrotrone Trieste, Strada Statale 14 km. 163.5 in AREA Science Park, Trieste, 34149, Italy, IOM-CNR, Laboratorio TASC AREA Science Park, Strada Statale 14 km. 163.5, Trieste, 34149, Italy; Hofmann, P., Department of Physics and Astronomy, Interdisciplinary Nanoscience Center (INANO), Aarhus University, Ny Munkegade 120, Aarhus C, 8000, Denmark; Lizzit, S., Elettra Sincrotrone Trieste, Strada Statale 14 km. 163.5 in AREA Science Park, Trieste, 34149, Italy	Nanoscale	2021	20403364
3621	Coal fly ash	Singh M., Siddique R., Singh J.	Singh, M., ICEC Engineering, Patiala, India; Siddique, R., Thapar Institute of Engineering and Technology, Patiala, India; Singh, J., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	Sustainable Concrete Made with Ashes and Dust from Different Sources: Materials, Properties and Applications	2021	
3622	Sustainable concrete made with ashes and dust from different sources: Materials, properties and applications	Siddique R., Belarbi R.	Siddique, R., Thapar Institute of Engineering and Technology, Patiala, India; Belarbi, R., La Rochelle University, La Rochelle, France	Sustainable Concrete Made with Ashes and Dust from Different Sources: Materials, Properties and Applications	2021	
3623	Limestone dust	Siddique R., Gupta N.	Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, N., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Sustainable Concrete Made with Ashes and Dust from Different Sources: Materials, Properties and Applications	2021	
3624	Bagasse ash	Singh M., Singh J., Siddique R.	Singh, M., ICEC Engineering, Patiala, India; Singh, J., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Siddique, R., Thapar Institute of Engineering and Technology, Patiala, India	Sustainable Concrete Made with Ashes and Dust from Different Sources: Materials, Properties and Applications	2021	
3625	Sunlight driven photocatalytic degradation of organic pollutants using a MnV2O6/BiVO4heterojunction: mechanistic perception and degradation pathways	Bano K., Mittal S.K., Singh P.P., Kaushal S.	Bano, K., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Mittal, S.K., School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Singh, P.P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kaushal, S., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India	Nanoscale Advances	2021	25160230

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3626	The intestinal 3M (microbiota, metabolism, metabolome) zeitgeist – from fundamentals to future challenges	Dey P., Chaudhuri S.R., Efferth T., Pal S.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chaudhuri, S.R., Council of Scientific and Industrial Research (CSIR), Institute of Microbial Technology, Chandigarh, India; Efferth, T., Department of Pharmaceutical Biology, Institute of Pharmaceutical and Biomedical Sciences, Johannes Gutenberg University, Mainz, Germany; Pal, S., Mukherjee Hospital, Mitra's Clinic and Nursing Home, Siliguri, West Bengal, India	Free Radical Biology and Medicine	2021	8915849
3627	Concentrate development from litchi juice and quality evaluation during storage	Rani J., Shelke A., Bansal B., Gautam V.	Rani, J., Thapar Institute of Engineering and Technology, Patiala, India; Shelke, A., Deptt of FST, Punjab Agricultural University, Ludhiana, India; Bansal, B., Deptt of FST, Punjab Agricultural University, Ludhiana, India; Gautam, V., Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, India	Journal of Physics: Conference Series	2021	17426588
3628	Guest Editorial Special Issue on Artificial Intelligence-Based Sensors for Next Generation IoT Applications	Sah Tyagi S.K., Wei W., Piuri V., Mukhopadhyay S.C., Striegel A., Elloumi O., Zeadally S., Wang W., Kumar N.	Sah Tyagi, S.K., Zhongyuan University of Technology, Zhengzhou, China; Wei, W., Xi'an University of Technology, Xi'an, China; Piuri, V., University of Milan, Milan, Italy; Mukhopadhyay, S.C., Macquarie University, Sydney, NSW, Australia; Striegel, A., University of Notre Dame, Notre Dame, IN, United States; Elloumi, O., Bell Labs Within Nokia CTO, Nozay, France; Zeadally, S., University of Kentucky, Lexington, KY, United States; Wang, W., University of Macau, Macau; Kumar, N., Thapar Institute of Engineering Technology, Punjab, Patiala, India	IEEE Sensors Journal	2021	1530437X
3629	Electrochemical Reduction of Carbon Dioxide to Ethanol: A Review	Dongare S., Singh N., Bhunia H., Bajpai P.K., Das A.K.	Dongare, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bajpai, P.K., Ex-Distinguished, Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India, G-1 Ekta Apartment, 120/912 Ranjeet Nagar, Kanpur, Uttar Pradesh 208005, India; Das, A.K., Head, Refinery R&D and Process Development, Reliance Industries Limited, Jamnagar, Gujarat 361142, India	ChemistrySelect	2021	23656549
3630	MoS ₂ /WO ₃ heterojunction with the intensified photocatalytic performance for decomposition of organic pollutants under the broad array of solar light	Singla S., Sharma S., Basu S.	Singla, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Cleaner Production	2021	9596526
3631	Solar-light-driven photocatalysis by Sb ₂ S ₃ /carbon based composites towards degradation of noxious organic pollutants	Dashairya L., Sharma S., Rathi A., Saha P., Basu S.	Dashairya, L., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India; Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rathi, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Saha, P., Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha 769008, India, Centre for Nanomaterials, National Institute of Technology, Rourkela, Odisha 769008, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Chemistry and Physics	2021	2540584
3632	An optimized Generative Adversarial Network based continuous sign language classification	Elakkiya R., Vijayakumar P., Kumar N.	Elakkiya, R., School of Computing, SASTRA Deemed University, Thanjavur, India; Vijayakumar, P., Department of Computer Science & Engineering, University College of Engineering Tindivanam, Tindivanam, Tamilnadu 604001, India; Kumar, N., Department of Computer Science and Information Engineering, Asia University Taiwan and School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, India	Expert Systems with Applications	2021	9574174
3633	Nanomolar level detection of metal ions by improving the monodispersity and stability of nitrogen-doped graphene quantum dots	Sohal N., Bhatia S.K., Basu S., Maity B.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhatia, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	New Journal of Chemistry	2021	11440546
3634	Slurryability and flowability of coal water slurry: Effect of particle size distribution	Singh H., Kumar S., Mohapatra S.K., Prasad S.B., Singh J.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, S., Mechanical Engineering Department, National Institute of Technology, Jamshedpur, Jharkhand 831014, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Prasad, S.B., Production and Industrial Engineering Department, National Institute of Technology, Jamshedpur, Jharkhand 831014, India; Singh, J., Department of Chemistry, Guru Nanak College Budhlada Punjab 151502, India	Journal of Cleaner Production	2021	9596526

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3635	Load-based node ranked low-energy adaptive clustering hierarchy: An enhanced energy-efficient algorithm for cluster head selection in wireless sensor networks	Mehta D., Saxena S.	Mehta, D., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Saxena, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Concurrency and Computation: Practice and Experience	2021	15320626
3636	A systematic review on task scheduling in Fog computing: Taxonomy, tools, challenges, and future directions	Kaur N., Kumar A., Kumar R.	Kaur, N., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2021	15320626
3637	Social entrepreneurship for scalable solutions addressing sustainable development goals (SDGs) at BoP in India	Goyal S., Agrawal A., Sergi B.S.	Goyal, S., LM Thapar School of Management, Thapar University, Dera Bassi, India; Agrawal, A., FSB, Flame University, Pune, India; Sergi, B.S., Harvard University, Cambridge, MA, United States	Qualitative Research in Organizations and Management: An International Journal	2021	17465648
3638	Comprehensive and High-throughput Electrolysis of Water and Urea by 3–5 nm Nickel and Copper Coordination Polymers	Kumar A., Parvin S., Das R.K., Bhattacharyya S.	Kumar, A., Department of Chemical Sciences and Centre for Advanced Functional Materials, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur, 741246, India; Parvin, S., Department of Chemical Sciences and Centre for Advanced Functional Materials, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur, 741246, India; Das, R.K., Department of Chemical Sciences and Centre for Advanced Functional Materials, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur, 741246, India, Current Affiliation: School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, 147004, India; Bhattacharyya, S., Department of Chemical Sciences and Centre for Advanced Functional Materials, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur, 741246, India	Chemistry - An Asian Journal	2021	18614728
3639	Morphological and optical studies of Gd2O3:Eu nanostructures synthesized via sacrificial template directed co-precipitation route	Priya R., Michalska-Domańska M., Kumar S., Pandey O.P.	Priya, R., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Michalska-Domańska, M., Institute of Optoelectronics, Military University of Technology, 2 Kaliskiego Str., Warsaw, 00908, Poland; Kumar, S., Department of Chemistry, M. M. Modi College, Patiala, 147001, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Optics and Laser Technology	2021	303992
3640	Adapting Rainfall Variability to Flood Risk: A Case Study of the Ghaggar River Basin	Gorai S., Ratha D., Dhir A.	Gorai, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147 001, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147 001, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147 001, India	Journal of the Geological Society of India	2021	167622
3641	Fabrication of 3D porous peony flower-like β -Bi2O3/BiOCl heterostructure for synergistically boosting the visible-light-driven degradation of organic pollutants	Nagar A., Basu S.	Nagar, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Technology and Innovation	2021	23521864
3642	Modeling and optimal control of dengue disease with screening and information	Srivastav A.K., Kumar A., Srivastava P.K., Ghosh M.	Srivastav, A.K., Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai, India, Basque Center for Applied Mathematics (BCAM), Bilbao, Spain; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India; Ghosh, M., Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai, India	European Physical Journal Plus	2021	21905444
3643	Thermodynamic modeling of Al–Si nanoalloy phase diagram	Seema, Kumar G., Sharma A., Kashyap S., Beddiaf Z., Shekhar C.	Seema, Department of Physics, Amity School of Applied Sciences, Amity University, Haryana, 122413, India; Kumar, G., Department of Electronic and Communication Engineering, Geeta Engineering College, Panipat, 132107, India; Sharma, A., Department of Mathematics, Amity School of Applied Sciences, Amity University, Haryana, 122413, India; Kashyap, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Beddiaf, Z., Department of Physics, Faculty of Matter Sciences, University of Batna, Batna, Algeria; Shekhar, C., Department of Physics, Amity School of Applied Sciences, Amity University, Haryana, 122413, India	Journal of Nanoparticle Research	2021	13880764
3644	Analysis and optimal control of ϕ -hiffier fractional semilinear equations involving nonlocal impulsive conditions	Guechi S., Dhayal R., Debbouche A., Malik M.	Guechi, S., Department of Mathematics, Guelma University, Guelma, 24000, Algeria; Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Debbouche, A., Department of Mathematics, Guelma University, Guelma, 24000, Algeria; Malik, M., School of Basic Sciences, Indian Institute of Technology Mandi, Kamand, 175 005, India	Symmetry	2021	20738994

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3645	Investigation of functionally graded adherents on failure of socket joint of frp composite tubes	Prakash C., Kumar V., Mistri A., Uppal A.S., Babbar A., Pathri B.P., Mago J., Sharma A., Singh S., Wu L.Y., Zheng H.Y.	Prakash, C., Department of Mechanical Engineering, Shandong University of Technology, Zibo, 255000, China, School of Mechanical Engineering, Lovely Professional University, Phagwara, 144001, India; Kumar, V., Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur, 721302, India; Mistri, A., CSIR-Central Mechanical Engineering Research Institute, Durgapur, 713209, India; Uppal, A.S., Merla Wellhead Solution, 51 Esplanade Blvd Suite 600, Houston, TX 77060, United States; Babbar, A., Department of Mechanical Engineering, Guru Gobind Singh Tricentenary University, Gurugram, 122505, India; Pathri, B.P., Mechanical Engineering Department, JK Lakshmipat University, Jaipur, 302026, India; Mago, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, A., Chitkara College of Applied Engineering, Chitkara University, Rajpura, 140401, India; Singh, S., Department of Mechanical Engineering, Chandigarh University, Gharuan, 140413, India; Wu, L.Y., Department of Mechanical Engineering, Shandong University of Technology, Zibo, 255000, China; Zheng, H.Y., Department of Mechanical Engineering, Shandong University of Technology, Zibo, 255000, China	Materials	2021	19961944
3646	Correction to: Experimental investigation for fine finishing of the tapered mould cavity using a newly developed GWMRF process (Journal of the Brazilian Society of Mechanical Sciences and Engineering, (2021), 43, 9, (444), 10.1007/s40430-021-03159-2)	Aggarwal A., Singh A.K.	Aggarwal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2021	16785878
3647	Development of mock-up Ion cyclotron resonance heating system with a new algorithmic approach for automatic impedance matching	Jain A., Yadav R.P., Kumar S.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, near police lines, Patiala, Punjab 147004, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, near police lines, Patiala, Punjab 147004, India; Kumar, S., High power ICRH division, Institute for Plasma Research, Gandhinagar, Gujarat, India	Fusion Engineering and Design	2021	9203796
3648	Design and analysis of fiber Bragg grating sensor to monitor strain and temperature for structural health monitoring	Dhingra I., Kaur G., Kaler R.S.	Dhingra, I., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, G., Electronics and Communication Engineering Department, University Institute of Engineering, Chandigarh University, Gharuan, Mohali, Punjab 140413, India; Kaler, R.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Optical and Quantum Electronics	2021	3068919
3649	Prediction of tool shape in electrical discharge machining of en31 steel using machine learning techniques	Walia A.S., Srivastava V., Rana P.S., Somani N., Gupta N.K., Singh G., Pimenov D.Y., Mikolajczyk T., Khanna N.	Walia, A.S., Department of Mechanical Engineering, Thapar Polytechnic College, Patiala, 147001, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Rana, P.S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Somani, N., Department of Mechanical Engineering, DIT University, Dehradun, 248001, India; Gupta, N.K., Department of Mechanical Engineering, ABES Engineering College, Ghaziabad, 110093, India; Singh, G., School of Mechanical and Materials Engineering, University College Dublin, Belfield, 4, Dublin, D04 V1W8, Ireland; Pimenov, D.Y., Department of Automated Mechanical Engineering, South Ural State University, Lenin Prosp. 76, Chelyabinsk, 454080, Russian Federation; Mikolajczyk, T., Department of Production Engineering, UTP University of Science and Technology, Al. Prof. S. Kaliskiego 7, Bydgoszcz, 85-796, Poland; Khanna, N., Advanced Manufacturing Laboratory, Institute of Infrastructure Technology Research and Management (IITRAM), Ahmedabad, 380026, India	Metals	2021	20754701
3650	An approach to expose dithering-based JPEG anti-forensics	Bhardwaj D., Pankajakshan V.	Bhardwaj, D., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pankajakshan, V., Department of ECE, Indian Institute of Technology Roorkee, Roorkee, 247667, India	Forensic Science International	2021	3790738
3651	Influence of samarium doping on the phase stability and optical properties of calcium silicates derived from agro-food wastes	Chhina M.K., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Science: Materials in Electronics	2021	9574522
3652	Developing sustainable measures to restore fly-ash contaminated lands: Current challenges and future prospects	Upadhyay S.K., Edrisi S.A.	Upadhyay, S.K., Department of Environmental Science, V.B.S. Purvanchal University, Jaunpur, Uttar Pradesh, India; Edrisi, S.A., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Land Degradation and Development	2021	10853278
3653	A ranking method based on Muirhead mean operator for group decision making with complex interval-valued q-rung orthopair fuzzy numbers	Garg H., Naz S., Ziaa F., Shoukat Z.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Naz, S., Department of Mathematics, Division of Science and Technology, University of Education, Lahore, Pakistan; Ziaa, F., School of Mathematics, Minhaj University, Lahore, Pakistan; Shoukat, Z., School of Mathematics, Minhaj University, Lahore, Pakistan	Soft Computing	2021	14327643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3654	A Multi-graph Convolutional Network Framework for Tourist Flow Prediction	Wang W., Chen J., Zhang Y., Gong Z., Kumar N., Wei W.	Wang, W., Faculty of Information Technology, Macau University of Science and Technology, Taipa, Macau; Chen, J., State Key Lab. of Internet of Things for Smart City and Dept. of Computer and Information Science, University of Macau, Macau; Zhang, Y., College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, 211106, China; Gong, Z., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., School of Computer Science and Engineering, Xi'an University of Technology, Xi'an, 710048, China; Wei, W., Faculty of Information Technology, Macau University of Science and Technology, Taipa, Macau	ACM Transactions on Internet Technology	2021	15335399
3655	Influencing mechanism of post-sulfurization with sulfur flakes on phase evolution and Schottky diode characteristic of Cu ₂ ZnSnS ₄ thin films sputter deposited from a single target	Pandey K., Mohanty B.C.	Pandey, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Solar Energy	2021	0038092X
3656	Machine Learning-based Mist Computing Enabled Internet of Battlefield Things	Shahid H., Shah M.A., Almogren A., Khattak H.A., Din I.U., Kumar N., Maple C.	Shahid, H., Department of Computer Science, COMSATS University Islamabad, Islamabad, 445500, Pakistan; Shah, M.A., Department of Computer Science, College of Computer and Information Sciences, King Saud University, Riyadh, 11633, Saudi Arabia; Almogren, A., Department of Information Technology, University of Haripur, Haripur, Pakistan; Khattak, H.A., Department of Computer Science and Information Engineering, Asia University Taiwan and Department of Computer Science and Engineering, Thapar University, Patiala, 147001, India; Din, I.U., Warwick Manufacturing Group, University of Warwick, Coventry, CV4 7AL, United Kingdom; Kumar, N., Department of Computer Science, COMSATS University Islamabad, Islamabad, 445500, Pakistan; Maple, C., Department of Computer Science, COMSATS University Islamabad, Islamabad, 445500, Pakistan	ACM Transactions on Internet Technology	2021	15335399
3657	A CMOS standard-cell based fully-synthesizable low-dropout regulator for ultra-low power applications	Sood L., Agarwal A.	Sood, L., Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Agarwal, A., Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India	AEU - International Journal of Electronics and Communications	2021	14348411
3658	Decay aspects of the compound nuclei formed via CF and ICF path in ¹² C+ ⁵² Cr reaction	Sarkar G., Grover N., Sharma M.K., Maiti M.	Sarkar, G., Department of Physics, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India; Grover, N., Department of Physics and Astronomical Sciences, Central University of Jammu, Jammu, 181143, J&K, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maiti, M., Department of Physics, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India	Nuclear Physics A	2021	3759474
3659	Need of transdisciplinary research for accelerating land restoration during the UN Decade on Ecosystem Restoration	Edrisi S.A., Abhilash P.C.	Edrisi, S.A., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Abhilash, P.C., Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi, Uttar Pradesh 221005, India	Restoration Ecology	2021	10612971
3660	CASE-CF: Context Aware Smart Epidemic Control Framework	Gill H.K., Sehgal V.K., Verma A.K.	Gill, H.K., Department of Computer Science and Engineering & Information Technology, Jaypee University of Information Technology, Solan, Himachal Pradesh, India; Sehgal, V.K., Department of Computer Science and Engineering & Information Technology, Jaypee University of Information Technology, Solan, Himachal Pradesh, India; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	New Generation Computing	2021	2883635
3661	Conserved immunogenic peptides of Ebola glycoprotein elicit immune response in human peripheral blood mononuclear cells	Jain S., Baranwal M.	Jain, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, University Institute of Biotechnology, Chandigarh University, Mohali, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Microbiology and Immunology	2021	3855600
3662	Ensemble learning-based prediction of contentment score using social multimedia in education	Kaur M., Mehta H., Randhawa S., Sharma P.K., Park J.H.	Kaur, M., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Mehta, H., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Randhawa, S., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Sharma, P.K., Department of Computing Science, University of Aberdeen, Aberdeen, AB24 3FX, United Kingdom; Park, J.H., Department of Computer Science and Engineering, Seoul National University of Science and Technology, (SeoulTech), Seoul, 01811, South Korea	Multimedia Tools and Applications	2021	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3663	Signcryption Based Authenticated and Key Exchange Protocol for EI-Based V2G Environment	Ahmed S., Shamshad S., Ghaffar Z., Mahmood K., Kumar N., Parizi R.M., Choo K.-K.R.	Ahmed, S., Department of Computer Science, Bahria University, Lahore, 54600, Pakistan; Shamshad, S., Department of Computer Science, Comsats University Islamabad, Sahiwal Campus, Islamabad, 57000, Pakistan; Ghaffar, Z., Department of Computer Science, Comsats University Islamabad, Sahiwal Campus, Islamabad, 57000, Pakistan; Mahmood, K., Department of Computer Science, Comsats University Islamabad, Sahiwal Campus, Islamabad, 57000, Pakistan; Kumar, N., Csed, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Parizi, R.M., College of Computing and Software Engineering, Kennesaw State University, Kennesaw, GA 30060, United States; Choo, K.-K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, TX 78249, United States	IEEE Transactions on Smart Grid	2021	19493053
3664	A Lagrangian approach for the electromechanical model of single-stage spur gear with tooth root cracks	Kumar V., Rai A., Mukherjee S., Sarangi S.	Kumar, V., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar 801103, India; Rai, A., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar 801103, India; Mukherjee, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sarangi, S., Department of Mechanical Engineering, Indian Institute of Technology PatnaBihar 801103, India	Engineering Failure Analysis	2021	13506307
3665	Fabrication and characterization of thin 64Zn and 68Zn targets for nuclear reaction measurements	Noor S., Abhilash S.R., Kabiraj D., Anjali, Kalkal S.	Noor, S., Thapar Institute of Engg. & Tech., Patiala, India; Abhilash, S.R., Inter-University Accelerator CenterNew Delhi, India; Kabiraj, D., Inter-University Accelerator CenterNew Delhi, India; Anjali, University of DelhiNew Delhi, India; Kalkal, S., Thapar Institute of Engg. & Tech., Patiala, India	Vacuum	2021	0042207X
3666	Design and analysis of high isolated super compact 2 × 2 MIMO antenna for WLAN application	Kaur M., Singh H.S.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2021	10964290
3667	ALPHA: An Anonymous Orthogonal Code-Based Privacy Preserving Scheme for Industrial Cyber-Physical Systems	Ali W., Din I.U., Almogren A., Kumar N.	Ali, W., Department of Information Technology, University of Haripur, Haripur, 22620, Pakistan; Din, I.U., Department of Information Technology, University of Haripur, Haripur, 22620, Pakistan; Almogren, A., Chair of Cyber Security, Department of Computer Science, College of Computer and Information Sciences, King Saud University, Riyadh, 11633, Saudi Arabia; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, King Abdulaziz University, Jeddah, 80200, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan	IEEE Transactions on Industrial Informatics	2021	15513203
3668	An energy efficient scheme for wpn-noma based device-to-device communication	Budhiraja I., Kumar N., Tyagi S., Tanwar S., Han Z.	Budhiraja, I., Department of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Punjab, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University Taiwan, Taichung City, 413, Taiwan, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Punjab, Patiala, 147004, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, 382481, India; Han, Z., Electrical and Computer Engineering, Houston University, Houston, TX 77004, United States	IEEE Transactions on Vehicular Technology	2021	189545
3669	Influence of anatase-brookite composition on photocatalytic degradation of diethyl phthalate	Singla P., Gupta A., Singh K., Pandey O.P.	Singla, P., Ceramics Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Mechanical Engineering, GLA University, Mathura, 281406, India; Singh, K., Ceramics Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2021	2728842
3670	Non-Lubricated Sliding Wear Performance of LM13 Alloy Foam and its Composite Foams Reinforced with ZrSiO4	Kumar S., Teotia P.K., Pandey O.P., Panwar R.S.	Kumar, S., Terminal Ballistics Research Laboratory, DRDO, Chandigarh, 160030, India; Teotia, P.K., Delhi Technological University, Delhi, 110042, India; Pandey, O.P., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Panwar, R.S., Department of Metallurgical and Materials Engineering, Punjab Engineering College, Chandigarh, 160012, India	Transactions of the Indian Institute of Metals	2021	9722815
3671	Luminescence and Judd-Ofelt study of Ho ³⁺ /Ho ³⁺ +Yb ³⁺ doped/ codoped lead tellurite glasses for multifunctional applications	Azam M., Mohanty D.K., Rai V.K., Singh K.	Azam, M., Ceramic Research Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mohanty, D.K., Department of Physics, Fakir Mohan Autonomous College, Balasore, Odisha, India; Rai, V.K., Laser and Spectroscopy Laboratory, Department of Physics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India; Singh, K., Ceramic Research Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Luminescence	2021	222313

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3672	Why do people purchase from food delivery apps? A consumer value perspective	Tandon A., Kaur P., Bhatt Y., Mäntymäki M., Dhir A.	Tandon, A., Turku School of Economics, University of Turku, Finland; Kaur, P., Department of Psychosocial Science, University of Bergen, Norway, Optentia Research Focus Area, North-West University, Vanderbijlpark, South Africa; Bhatt, Y., LM Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to Be University), District Mohali, Dera Bassi, Punjab 140507, India; Mäntymäki, M., Turku School of Economics, University of Turku, Finland; Dhir, A., Optentia Research Focus Area, North-West University, Vanderbijlpark, South Africa, Department of Management, School of Business & Law, University of Agder, Kristiansand, Norway, The Norwegian School of Hotel Management, Faculty of Social Sciences, Stavanger, Norway	Journal of Retailing and Consumer Services	2021	9696989
3673	Antiinflammatory phytochemicals against virus-induced hyperinflammatory responses: Scope, rationale, application, and limitations	Baranwal M., Gupta Y., Dey P., Majaw S.	Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Gupta, Y., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Dey, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Majaw, S., Department of Biotechnology & Bioinformatics, North-Eastern Hill University, Shillong, India	Phytotherapy Research	2021	0951418X
3674	Design of super compact ultrathin perfect wide-angle polarization independent metamaterial absorber for C, X, and Ku band applications	Puri V., Singh H.S.	Puri, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, TIET-VT Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, India	Microwave and Optical Technology Letters	2021	8952477
3675	Deep learning-based bird eye view social distancing monitoring using surveillance video for curbing the COVID-19 spread	Magoo R., Singh H., Jindal N., Hooda N., Rana P.S.	Magoo, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, H., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Hooda, N., School of Computing, Indian Institute of Information Technology, Una, Himachal Pradesh, India; Rana, P.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Neural Computing and Applications	2021	9410643
3676	A Review of Recent Research on Rare Earth Particulate Composite Materials and Structures with Their Applications	Srikant, Sharma V.K., Kumar V., Joshi R.S., Jain S., Kumar P.	Srikant, Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, UP 250005, India; Sharma, V.K., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, UP 250005, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, S., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, UP 250005, India; Kumar, P., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, UP 250005, India	Transactions of the Indian Institute of Metals	2021	9722815
3677	Reactive power compensation using derated power generation mode of modified P&O algorithm in grid-interfaced PV system	Kumar V., Singh M.	Kumar, V., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab 147004, India; Singh, M., Department of Electrical and Instrumentation Engineering, TIET, Patiala, Punjab 147004, India	Renewable Energy	2021	9601481
3678	A very low output resistance and wide-swing class-AB level-shifted folded flipped voltage follower cell	Jindal C., Pandey R.	Jindal, C., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Integration	2021	1679260
3679	Dry Sliding Wear Study of Solid Lubricants and Sillimanite-Reinforced Aluminum Alloy Composites	Singhal V., Pandey O.P.	Singhal, V., Metallurgical Lab, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., Metallurgical Lab, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Engineering and Performance	2021	10599495
3680	GA-UNet: UNet-based framework for segmentation of 2D and 3D medical images applicable on heterogeneous datasets	Kaur A., Kaur L., Singh A.	Kaur, A., Computer Science and Engineering Department, University College of Engineering, Punjabi University, Patiala, Punjab 147001, India, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, L., Computer Science and Engineering Department, University College of Engineering, Punjabi University, Patiala, Punjab 147001, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Neural Computing and Applications	2021	9410643
3681	Artificial intelligence-enabled Internet of Things-based system for COVID-19 screening using aerial thermal imaging	Barnawi A., Chhikara P., Tekchandani R., Kumar N., Alzahrani B.	Barnawi, A., Faculty of Computing and Information Technology, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Faculty of Computing and Information Technology, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Alzahrani, B., Faculty of Computing and Information Technology, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia	Future Generation Computer Systems	2021	0167739X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3682	Evaluation of 3D design lower limb exoskeleton on human musculoskeletal with various loads	Sohane A., Agarwal R.	Sohane, A., EIED, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Agarwal, R., EIED, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Expert Systems	2021	2664720
3683	Study of vibration modes and strain distribution of a flow energy harvester in the wake region of different bluff bodies	Agarwal A., Purohit A.	Agarwal, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Purohit, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2021	9544062
3684	Evaluation of inhibition efficiency of generic compounds with additional heteroatom in simulated concrete pore solution and migration potential in concrete	Tiwari A., Goyal S., Luxami V., Chakraborty M.K., Gundlapalli P.	Tiwari, A., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Chakraborty, M.K., Resources & Documentation Division, Atomic Energy Regulatory Board, Mumbai, India; Gundlapalli, P., Nuclear Power Corporation of India Limited, Mumbai, India	Journal of Building Engineering	2021	23527102
3685	COVID-19 pandemic and transmission factors: An empirical investigation of different countries	Singh P.K., Kiran R., Bhatt R.K., Tabash M.I., Pandey A.K., Chouhan A.	Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Bhatt, R.K., Department of Economics, Banaras Hindu University, Varanasi, India; Tabash, M.I., College of Business, Al Ain University, Al Ain, United Arab Emirates; Pandey, A.K., Centre for the Integrated Rural Development, Banaras Hindu University, Varanasi, India; Chouhan, A., Department of Economics, Banaras Hindu University, Varanasi, India	Journal of Public Affairs	2021	14723891
3686	The self-healing investigations on fiber-reinforced polymer composites through a novel compartmented microcapillary approach	Jain D., Gupta A., Mahajan S.	Jain, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, A., SIKKA Aerospace and Defence, Karnataka, Bangalore, India; Mahajan, S., Department of Mechanical Engineering, Gautam Budhha University, Uttar Pradesh, Greater Noida, India	Polymers and Polymer Composites	2021	9673911
3687	Bidirectional transfer learning model for sentiment analysis of natural language	Malhotra S., Kumar V., Agarwal A.	Malhotra, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
3688	ξboost: An AI-Based Data Analytics Scheme for COVID-19 Prediction and Economy Boosting	Vekaria D., Kumari A., Tanwar S., Kumar N.	Vekaria, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India, Department of Informatics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computing, University of Petroleum and Energy Studies, Dehradun, 248007, India	IEEE Internet of Things Journal	2021	23274662
3689	An ensemble approach to outlier detection using some conventional clustering algorithms	Saha A., Chatterjee A., Ghosh S., Kumar N., Sarkar R.	Saha, A., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Chatterjee, A., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Ghosh, S., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan; Sarkar, R., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India	Multimedia Tools and Applications	2021	13807501
3690	Federated learning-based aerial image segmentation for collision-free movement and landing	Chhikara P., Tekchandani R., Kumar N., Tanwar S.	Chhikara, P., Thapar Institute of Engineering and Technology, Punjab, India; Tekchandani, R., Thapar Institute of Engineering and Technology, Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, Punjab, India; Tanwar, S., Institute of Technology, Nirma University, Gujarat, Ahmedabad, India	DroneCom 2021 - Proceedings of the 4th ACM MobiCom Workshop on Drone Assisted Wireless Communications for 5G and Beyond	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3691	An ESIPT based versatile fluorescent probe for bioimaging live-cells and E. coli under strongly acidic conditions	Singla N., Ahmad M., Dhiman S., Kumar G., Singh S., Verma S., Kaur S., Rashid M., Kaur S., Luxami V., Singh P., Kumar S.	Singla, N., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Ahmad, M., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Dhiman, S., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., Department of Botanical and Environment Science, Guru Nanak Dev University, Amritsar, 143005, India; Verma, S., Department of Botanical and Environment Science, Guru Nanak Dev University, Amritsar, 143005, India; Kaur, S., Department of Botanical and Environment Science, Guru Nanak Dev University, Amritsar, 143005, India; Rashid, M., Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Kaur, S., Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Kumar, S., Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	New Journal of Chemistry	2021	11440546
3692	Magnetic and optical properties of transition metal (Fe, Co) and rare-earth (Tb, Dy) doped ZnS nanoparticles	Jindal S., Sharma P.	Jindal, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2021	9258388
3693	Blockchain-based framework for secured storage, sharing, and querying of electronic healthcare records	Kaur J., Rani R., Kalra N.	Kaur, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2021	15320626
3694	Erratum: Development of ultrasensitive and As(III)-selective upconverting (NaYF ₄ :Yb ³⁺ ,Er ³⁺) platform (Analyst (2020) 145 (6378-6387) DOI: 10.1039/DOAN00717J)	Duhan S., Sahoo K., Singh S.K., Kumar M.	Duhan, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sahoo, K., Department of Chemical Engineering and Technology, IIT (BHU), Varanasi, 221005, India; Singh, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, M., Department of Chemical Engineering and Technology, IIT (BHU), Varanasi, 221005, India	Analyst	2021	32654
3695	Capsule: All you need to know about Tactile Internet in a Nutshell	Gupta R., Tanwar S., Obaidat M.S., Tyagi S., Kumar N.	Gupta, R., Nirma University, Institute of Technology, Department of Computer Science and Engineering, Gujarat, India; Tanwar, S., Nirma University, Institute of Technology, Department of Computer Science and Engineering, Gujarat, India; Obaidat, M.S., University of Sharjah, College of Computing and Information, United Arab Emirates; Tyagi, S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India	Proceedings of the 2021 IEEE International Conference on Communications, Computing, Cybersecurity and Informatics, CCCI 2021	2021	
3696	Building Safer Autonomous Agents by Leveraging Risky Driving Behavior Knowledge	Rana A., Malhi A.	Rana, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Malhi, A., Bournemouth University, Department of Computing and Informatics, Bournemouth, United Kingdom	Proceedings of the 2021 IEEE International Conference on Communications, Computing, Cybersecurity and Informatics, CCCI 2021	2021	
3697	Nutrient removal from domestic wastewater: A comprehensive review on conventional and advanced technologies	Rout P.R., Shahid M.K., Dash R.R., Bhunia P., Liu D., Varjani S., Zhang T.C., Surampalli R.Y.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Shahid, M.K., Department of Environmental Engineering, Chungnam National University, South Korea; Dash, R.R., School of Infrastructure, Indian Institute of Technology Bhubaneswar, India; Bhunia, P., School of Infrastructure, Indian Institute of Technology Bhubaneswar, India; Liu, D., College of Biosystems Engineering and Food Science, Zhejiang University, China; Varjani, S., Gujarat Pollution Control Board, Gandhinagar, Gujarat 382 010, India; Zhang, T.C., Department of Civil and Environmental Engineering, University of Nebraska-Lincoln, Omaha, NE 68182, United States; Surampalli, R.Y., Global Institute for Energy, Environment and Sustainability, KS, United States	Journal of Environmental Management	2021	3014797
3698	Ceramic biomaterials: Properties, state of the art and future prospectives	Punj S., Singh J., Singh K.	Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, J., Department of Physics, Gulzar Group of Institutes, Ludhiana, 141001, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2021	2728842
3699	Federated Learning and Autonomous UAVs for Hazardous Zone Detection and AQI Prediction in IoT Environment	Chhikara P., Tekchandani R., Kumar N., Guizani M., Hassan M.M.	Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guizani, M., Department of Computer Science and Engineering, Qatar University, Doha, Qatar; Hassan, M.M., Research Chair of Pervasive and Mobile Computing, College of Computer and Information Sciences, King Saud University, Riyadh, 11543, Saudi Arabia	IEEE Internet of Things Journal	2021	23274662

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3700	Increased Predictive Accuracy of Multi-Environment Genomic Prediction Model for Yield and Related Traits in Spring Wheat (<i>Triticum aestivum</i> L.)	Tomar V., Singh D., Dhillon G.S., Chung Y.S., Poland J., Singh R.P., Joshi A.K., Gautam Y., Tiwari B.S., Kumar U.	Tomar, V., Borlaug Institute for South Asia, Ludhiana, India, Department of Biological Sciences and Biotechnology, Institute of Advanced Research, Gandhinagar, India, International Maize and Wheat Improvement Center, New Delhi, India; Singh, D., Department of Plant Pathology, Kansas State University, Manhattan, KS, United States, †Dajjit Singh, The Climate Corporation, Bayer Crop Science, Creve Coeur, MO, United States; Dhillon, G.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Chung, Y.S., Department of Plant Resources and Environment, Jeju National University, Jeju-si, South Korea; Poland, J., Department of Plant Pathology, Kansas State University, Manhattan, KS, United States; Singh, R.P., Global Wheat Program, International Maize and Wheat Improvement Center, Texcoco, Mexico; Joshi, A.K., Borlaug Institute for South Asia, Ludhiana, India, International Maize and Wheat Improvement Center, New Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Center, Texcoco, Mexico; Gautam, Y., Borlaug Institute for South Asia, Ludhiana, India; Tiwari, B.S., Department of Biological Sciences and Biotechnology, Institute of Advanced Research, Gandhinagar, India; Kumar, U., Borlaug Institute for South Asia, Ludhiana, India, International Maize and Wheat Improvement Center, New Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Center, Texcoco, Mexico	Frontiers in Plant Science	2021	1664462X
3701	A brief review on mechanical properties of Al-MMCs fabricated by stir casting route & applications	Thakur A., Joshi R.S., Singh A.	Thakur, A., Thapar Institute of Engineering and Technology, Patiala, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Thapar Institute of Engineering and Technology, Patiala, India	E3S Web of Conferences	2021	25550403
3702	Cancer cell profiling using image moments and neural networks with model agnostic explainability: A case study of breast cancer histopathological (breckhis) database	Kaplun D., Krasichkov A., Chetyrbok P., Oleinikov N., Garg A., Pannu H.S.	Kaplun, D., Department of Automation and Control Processes, Saint Petersburg Electrotechnical University "LETI", Saint Petersburg, 197376, Russian Federation; Krasichkov, A., Radio Engineering Systems Department, Saint Petersburg Electrotechnical University "LETI", Saint Petersburg, 197376, Russian Federation; Chetyrbok, P., Department of Mathematics and Informatics, V. I. Vernadsky Crimean Federal University, Yalta, 298635, Russian Federation; Oleinikov, N., Department of Mathematics and Informatics, V. I. Vernadsky Crimean Federal University, Yalta, 298635, Russian Federation; Garg, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mathematics	2021	22277390
3703	An integrated decision-making COPRAS approach to probabilistic hesitant fuzzy set information	Krishankumar R., Garg H., Arun K., Saha A., Ravichandran K.S., Kar S.	Krishankumar, R., School of Computing, SASTRA University, Tamil Nadu, Thanjavur, 613401, India, Department of Computer Science and Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Tamil Nadu, Coimbatore, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 140074, India; Arun, K., School of Computing, SASTRA University, Tamil Nadu, Thanjavur, 613401, India; Saha, A., Department of Mathematics, Techno College of Engineering Agartala, Agartala, India; Ravichandran, K.S., School of Computing, SASTRA University, Tamil Nadu, Thanjavur, 613401, India, Rajiv Gandhi National Institute of Youth Development, Tamil Nadu, Sriperumbudur, India; Kar, S., Department of Mathematics, NIT Durgapur, West Bengal, Durgapur, India	Complex and Intelligent Systems	2021	21994536
3704	A software fault prediction on inter-And intra-release prediction scenarios	Mishra A., Singla M.	Mishra, A., Thapar Institute of Engineering and Technology, India; Singla, M., Thapar Institute of Engineering and Technology, India	International Journal of Open Source Software and Processes	2021	19423926
3705	A novel hybrid Fuzzy AHP-TOPSIS Approach towards Enhanced multi-criteria Feature-based EV Recommender System	Prajapati S., Upadhyay Y., Chharia A., Sharma B.	Prajapati, S., National Institute of Technology, Department of Mechanical Engineering, Tripura, Agartala, India; Upadhyay, Y., Aligarh Muslim University, Zakir Husain College of Engineering and Technology, Department of Mechanical Engineering, Uttar Pradesh, Aligarh, India; Chharia, A., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India; Sharma, B., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India	2021 2nd Global Conference for Advancement in Technology, GCAT 2021	2021	
3706	NeT-Vent: Low-Cost, Rapidly Scalable and IoT-enabled Smart Invasive Mechanical Ventilator with adaptive control to reduce incidences of Pulmonary Barotrauma in SARS-CoV-2 patients	Chharia A., Chauhan S., Basak S., Sharma B.	Chharia, A., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India, Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Chauhan, S., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India; Basak, S., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India, Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Sharma, B., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India	2021 2nd Global Conference for Advancement in Technology, GCAT 2021	2021	
3707	Structural and functional aspects of ebola virus proteins	Jain S., Martynova E., Rizvanov A., Khaiboullina S., Baranwal M.	Jain, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, University Institute of Biotechnology, Chandigarh University, Mohali, Punjab, 140413, India; Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Rizvanov, A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Khaiboullina, S., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Pathogens	2021	20760817

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3708	Bi-Objective Reliability-Cost Interactive Optimization Model for Series-Parallel System	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	International Journal of Mathematical, Engineering and Management Sciences	2021	24557749
3709	Surface roughness analysis of H13 steel during electrical discharge machining process using Cu-TiC sintered electrode	Walia A.S., Srivastava V., Garg M., Somani N., Gupta N.K., Prakash C., Bhargava C., Kotecha K.	Walia, A.S., Department of Mechanical Engineering, Thapar Polytechnic College, Patiala, 147004, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Somani, N., Department of Mechanical Engineering, DIT University, Dehradun, 248009, India; Gupta, N.K., Department of Mechanical Engineering, ABES Engineering College, Ghaziabad, 201001, India; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Phagwara, 144402, India; Bhargava, C., Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Pune, 412115, India; Kotecha, K., Symbiosis Centre for Applied Artificial Intelligence (SCAAI), Symbiosis International (Deemed University) (SIU), Pune, 412115, India	Materials	2021	19961944
3710	Long term immune response produced by the sputnikv vaccine	Martynova E., Hamza S., Garanina E.E., Kabwe E., Markelova M., Shakirova V., Khaertynova I.M., Kaushal N., Baranwal M., Rizvanov A.A., Urbanowicz R.A., Khaiboullina S.F.	Martynova, E., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation; Hamza, S., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation; Garanina, E.E., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation; Kabwe, E., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation; Markelova, M., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation; Shakirova, V., Kazan State Medical Academy, Kazan, 420012, Russian Federation; Khaertynova, I.M., Department of Infectious Diseases, Kazan State Medical Academy, Kazan, 420012, Russian Federation; Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rizvanov, A.A., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation; Urbanowicz, R.A., Department of Infection Biology and Microbiomes, Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, Liverpool, L3 5RF, United Kingdom; Khaiboullina, S.F., IFMIB, Kazan Federal University, Kazan, 420008, Russian Federation	International Journal of Molecular Sciences	2021	16616596
3711	Initial step of selenite reduction via thioredoxin for bacterial selenoprotein biosynthesis	Shimizu A., Tobe R., Aono R., Inoue M., Hagita S., Kiriyaama K., Toyotake Y., Ogawa T., Kurihara T., Goto K., Prakash N.T., Mihara H.	Shimizu, A., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; Tobe, R., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; Aono, R., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; Inoue, M., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; R-GIRO, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; Hagita, S., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; Kiriyaama, K., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan; Toyotake, Y., Institute for Chemical Research, Kyoto University, Gokasho, Kyoto, Uji, 611-0011, Japan; Ogawa, T., Institute for Chemical Research, Kyoto University, Gokasho, Kyoto, Uji, 611-0011, Japan; Kurihara, T., Institute for Chemical Research, Kyoto University, Gokasho, Kyoto, Uji, 611-0011, Japan; Goto, K., Department of Chemistry, School of Science, Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo, 152-8551, Japan; Prakash, N.T., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mihara, H., College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Shiga, Kusatsu, 525-8577, Japan	International Journal of Molecular Sciences	2021	16616596
3712	Reaction kinetics during non-isothermal solid-state synthesis of boron trioxide via boric acid dehydration	Kaur G., Kainth S., Kumar R., Sharma P., Pandey O.P.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kainth, S., TIET - Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Reaction Kinetics, Mechanisms and Catalysis	2021	18785190
3713	Existence and controllability of impulsive fractional stochastic differential equations driven by Rosenblatt process with Poisson jumps	Dhayal R., Malik M.	Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Malik, M., School of Basic Sciences, Indian Institute of Technology Mandi, Kamand, H.P., India	Journal of Engineering Mathematics	2021	220833
3714	Microbial polymers as sustainable agents for mitigating health risks of plant-based endocrine disruptors in surface water	Ghosh M., Balamurugan K., Sharma V.	Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Balamurugan, K., Department of Biotechnology, Alagappa University, Karaikudi, Tamil Nadu, 630003, India; Sharma, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	International Journal of Environmental Research and Public Health	2021	16617827

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3715	Adoption of strategies for clean combustion of biomass in boilers	Sharma S., Sharma M., Mudgal D., Bhowmick H.	Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhowmick, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Corrosion Reviews	2021	3346005
3716	Breast cancer detection from histopathology images using modified residual neural networks	Gupta V., Vasudev M., Doegar A., Sambyal N.	Gupta, V., Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, Chandigarh, India; Vasudev, M., Department of Computer Science and Engineering, National Institute of Technical Teachers Training & Research, Chandigarh, India; Doegar, A., Department of Computer Science and Engineering, National Institute of Technical Teachers Training & Research, Chandigarh, India; Sambyal, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Biocybernetics and Biomedical Engineering	2021	2085216
3717	Prediction of face age progression with generative adversarial networks	Sharma N., Sharma R., Jindal N.	Sharma, N., Department of Electronics and Communication Engineering, Punjabi University, Patiala, Punjab 147001, India; Sharma, R., Department of Electronics and Communication Engineering, Punjabi University, Patiala, Punjab 147001, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Multimedia Tools and Applications	2021	13807501
3718	Clustering-based shadow detection from images with texture and color analysis	Dhingra G., Kumar V., Joshi H.D.	Dhingra, G., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Joshi, H.D., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
3719	Behaviour of simply supported RC skew slabs stiffened with shallow beams	Sharma M., Singh H., Kwatra N.	Sharma, M., Jawaharlal Nehru Govt. Engineering College SundernagarHimachal Pradesh, India; Singh, H., Guru Nanak Dev Engineering College, Ludhiana, Punjab, India; Kwatra, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Advances in Structural Engineering	2021	13694332
3720	Selection of third party reverses logistic providers: an approach of BCF-CRITIC-MULTIMOORA using Archimedean power aggregation operators	Baidya J., Garg H., Saha A., Mishra A.R., Rani P., Dutta D.	Baidya, J., Department of Basic and Applied Science, NIT Arunachal Pradesh, Yupia, 791112, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, 147004, India; Saha, A., Department of Mathematics, Techno College of Engineering Agartala, Tripura, 799004, India; Mishra, A.R., Department of Mathematics, Govt. College Jaitwara, MP, Satna, India; Rani, P., Department of Mathematics, NIT Warangal, Telangana, Warangal, 506004, India; Dutta, D., Department of Basic and Applied Science, NIT Arunachal Pradesh, Yupia, 791112, India	Complex and Intelligent Systems	2021	21994536
3721	Photocatalytic water splitting hydrogen production via environmental benign carbon based nanomaterials	Singla S., Sharma S., Basu S., Shetti N.P., Aminabhavi T.M.	Singla, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India; Aminabhavi, T.M., P. G. Department of Studies in Chemistry, Karnatak University, Dharwad, Karnataka, India	International Journal of Hydrogen Energy	2021	3603199
3722	An Efficient Blockchain-Based Authentication Scheme for Energy-Trading in V2G Networks	Aggarwal S., Kumar N., Gope P.	Aggarwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science, The University of Sheffield, Sheffield, United Kingdom; Gope, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Industrial Informatics	2021	15513203
3723	A comprehensive review on blockchain and Internet of Things in healthcare	Sharma A., Kaur S., Singh M.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Transactions on Emerging Telecommunications Technologies	2021	21615748
3724	Electrochemical reduction of CO ₂ using oxide based Cu and Zn bimetallic catalyst	Dongare S., Singh N., Bhunia H., Bajpai P.K.	Dongare, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bajpai, P.K., Ex-Distinguished Professor, Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Electrochimica Acta	2021	134686
3725	Investigation on oxidation stability of V ₂ AIC MAX phase	Sharma P., Singh K., Pandey O.P.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India	Thermochimica Acta	2021	406031
3726	Analytic study of norms of prime partitions	Kumar A.	Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Bulletin des Sciences Mathematiques	2021	74497

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3727	An observer-based current reconstruction of induction motor driven water pump with improved power flow control by ANN based DPC of PV-grid interactive system	Shukla S., Singh B., Al-Durra A.	Shukla, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, B., Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, India; Al-Durra, A., Advanced Power and Energy Center, EECs Department, Khalifa University, Abu Dhabi, United Arab Emirates	IET Power Electronics	2021	17554535
3728	A framework for effective and clean conversion of machining waste into metal powder feedstock for additive manufacturing	Dhiman S., Joshi R.S., Singh S., Gill S.S., Singh H., Kumar R., Kumar V.	Dhiman, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (Patiala), India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (Patiala), India; Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (Patiala), India; Gill, S.S., Department of Mechanical Engineering, Sardar Beant Singh State University (Gurdaspur), India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar (Roopnagar), India; Kumar, R., CSIR-National Metallurgical Laboratory (Jamshedpur), India, Department of Fuel Minerals and Metallurgical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (Patiala), India	Cleaner Engineering and Technology	2021	26667908
3729	Conceptualization and techno-economic evaluation of microgrid based on PV/Biomass in Indian scenario	Singh A., Basak P.	Singh, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Cleaner Production	2021	9596526
3730	Blockchain management and machine learning adaptation for IoT environment in 5G and beyond networks: A systematic review	Miglani A., Kumar N.	Miglani, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, King Abdul Aziz University, Jeddah, Saudi Arabia	Computer Communications	2021	1403664
3731	Dielectric behavior of natural ester based mineral oil blend dispersed with TiO ₂ and ZnO nanoparticles as insulating fluid for transformers	Siddique Z.B., Basu S., Basak P.	Siddique, Z.B., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Molecular Liquids	2021	1677322
3732	Residence time distribution studies on recycle reactor with recirculation	Datta A., Bhunia H., Gupta R.K.	Datta, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Chemical Reactor Engineering	2021	15426580
3733	Agro waste as a source of bioactive glass for targeted drug delivery and bone implantation	Kaur D., Reddy M.S., Pandey O.P.	Kaur, D., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Drug Delivery Science and Technology	2021	17732247
3734	Design of all-optical Johnson counter using SOA-MZI at 100 Gb/s	Nair N., Kaur S., Singh H.	Nair, N., Amity School of Engineering & Technology, Amity University, Noida, 201203, India; Kaur, S., Amity School of Engineering & Technology, Amity University, Noida, 201203, India; Singh, H., Thapar Institute of Engineering and Technology, Patiala, Punjab 144603, India	Optik	2021	304026
3735	Behaviour of steel fibers reinforced exterior beam-column joint using headed bars under reverse cyclic loading	Sachdeva P., Danie Roy A.B., Kwatra N.	Sachdeva, P., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India, Chitkara College of Applied Engineering, Chitkara University, Rajpura, Punjab, India; Danie Roy, A.B., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Structures	2021	23520124
3736	Sensitivity enhancement of Passive Infrared (PIR) sensor for motion detection	Verma M., Kaler R.S., Singh M.	Verma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Optik	2021	304026
3737	A non-polynomial axiomatic framework for modelling and bending analysis of doubly curved spherical and cylindrical shells: An analytical solution	Sharma L.K., Grover N., Purohit A., Sahoo R.	Sharma, L.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Purohit, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sahoo, R., Civil Engineering Department, Indian Institute of Technology (Banaras Hindu University), Varanasi, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2021	14644207

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3738	Development and characterization of multiwalled carbon nanotube-reinforced microwave sintered hybrid aluminum metal matrix composites: An experimental investigation on mechanical and tribological performances	Kumar R., Bhowmick H., Gupta D., Bansal S.	Kumar, R., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Bansal, S., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2021	14644207
3739	Recycling of landfill wastes (tyres, plastics and glass) in construction – A review on global waste generation, performance, application and future opportunities	Ferdous W., Manalo A., Siddique R., Mendis P., Zhuge Y., Wong H.S., Lokuge W., Aravinthan T., Schubel P.	Ferdous, W., Senior Research Fellow, University of Southern Queensland, Centre for Future Materials (CFM)QLD 4350, Australia; Manalo, A., Professor, University of Southern Queensland, Centre for Future Materials (CFM), School of Civil Engineering and SurveyingQLD 4350, Australia; Siddique, R., Senior Professor, Thapar Institute of Engineering and Technology, Department of Civil Engineering, Patiala, 147004, India; Mendis, P., Professor, The University of Melbourne, Department of Infrastructure Engineering, Parkville, VIC 3010, Australia; Zhuge, Y., Professor, University of South Australia, School of Natural and Built Environments, Adelaide, Australia; Wong, H.S., Reader, Imperial College London, Department of Civil and Environmental Engineering, London, Kensington SW7 2AZ, Australia; Lokuge, W., Senior Lecturer, University of Southern Queensland, Centre for Future Materials (CFM), School of Civil Engineering and Surveying, Toowoomba, QLD 4350, Australia; Aravinthan, T., Professor, University of Southern Queensland, Centre for Future Materials (CFM), School of Civil Engineering and SurveyingQLD 4350, Australia; Schubel, P., Professor and Executive Director (IAESS), University of Southern Queensland, Centre for Future Materials (CFM)QLD 4350, Australia	Resources, Conservation and Recycling	2021	9213449
3740	Deep eutectic solvent functionalized rice husk ash for effective adsorption of ofloxacin from aqueous environment	Kaur G., Singh N., Rajor A., Kushwaha J.P.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Contaminant Hydrology	2021	1697722
3741	Control of DSTATCOM using nonparametric variable step-size NLMS: An experimental study	Badoni M., Singh A., Semwal S., Tatte Y.	Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Electrical Engineering, Delhi Technological University, Delhi, India; Semwal, S., Department of Electrical and Electronics Engineering, Tula's Institute, Dehradun, India and Electronics & Communication Department, Model Institute of Engineering and Technology, Jammu, India; Tatte, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Electric Power Systems Research	2021	3787796
3742	An approach to probabilistic hesitant fuzzy risky multiattribute decision making with unknown probability information	Liu X., Wang Z., Zhang S., Garg H.	Liu, X., Department of Information and Computing Science, School of Mathematics and Physics, Anhui University of Technology, Ma'anshan, China, Department of Control and Decision, Key Laboratory of Multidisciplinary Management and Control of Complex Systems of Anhui Higher Education Institutes, Anhui University of Technology, Ma'anshan, China; Wang, Z., Department of Public Economy and Social Security, Researching Center of Social Security, Wuhan University, Wuhan, China; Zhang, S., Department of Information and Computing Science, School of Mathematics and Physics, Anhui University of Technology, Ma'anshan, China; Garg, H., Department of Mathematics, School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India	International Journal of Intelligent Systems	2021	8848173
3743	A high output resistance, wide bandwidth, and low input resistance current mirror using flipped voltage follower cell	Jindal C., Pandey R.	Jindal, C., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2021	989886
3744	Effect of Process Parameters on Mechanical Properties of Aluminum Composite Foam Developed by Friction Stir Processing	Rathore S., Singh R.K.R., Khan K.L.A.	Rathore, S., KIET Group of Institutions, Ghaziabad, India; Singh, R.K.R., Thapar Institute of Engineering & Technology, Patiala, India; Khan, K.L.A., KIET Group of Institutions, Ghaziabad, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2021	9544054
3745	New exponential operation laws and operators for interval-valued q-rung orthopair fuzzy sets in group decision making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Neural Computing and Applications	2021	9410643
3746	An Adaptive Fuzzy-Based Clustering and Bio-Inspired Energy Efficient Hierarchical Routing Protocol for Wireless Sensor Networks	Saxena S., Mehta D.	Saxena, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mehta, D., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Wireless Personal Communications	2021	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3747	Manifestation of Flexible p-i-n Solar Cells Fabricated Using HWCVD in WSN Application	Agarwal M., Munjal A., Wadibhasme N., Dusane R.	Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Munjal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Wadibhasme, N., Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology, Bombay, Mumbai, 400076, India; Dusane, R., Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology, Bombay, Mumbai, 400076, India	Wireless Personal Communications	2021	9296212
3748	Addition of compatibilized nanoclay to GFRCs for improved izod impact strength and tensile properties	Shelly D., Nanda T., Mehta R.	Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India, TIET-Virginia Tech Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2021	14644207
3749	Accuracy Improvement of Solar Power Estimation Using Real-Time Degradation Computation of PV Panels	Bhola P., Bhardwaj S.	Bhola, P., Electronics and Communication Engineering Department, ITS Engineering College, Uttar Pradesh, Greater Noida, 201308, India; Bhardwaj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Deep Learning Research Laboratory, Virginia Tech, United States	Journal of Circuits, Systems and Computers	2021	2181266
3750	Identification and removal of micro- and nano-plastics: Efficient and cost-effective methods	Kundu A., Shetti N.P., Basu S., Raghava Reddy K., Nadagouda M.N., Aminabhavi T.M.	Kundu, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 027, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Raghava Reddy, K., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia; Nadagouda, M.N., The United States Environmental Protection Agency, ORD, CESER, WID, CMTB, 26 W. Martin Luther King Drive, Cincinnati, OH 45268, United States; Aminabhavi, T.M., Department of Chemistry, Karnatak University, Dhasrwad, 580 003, India	Chemical Engineering Journal	2021	13858947
3751	Blockchain-Envisioned Trusted Random Oracles for IoT-Enabled Probabilistic Smart Contracts	Patel N.S., Bhattacharya P., Patel S.B., Tanwar S., Kumar N., Song H.	Patel, N.S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Patel, S.B., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India; Song, H., Department of Electrical Engineering and Computer Science, Security and Optimization for Networked Globe Laboratory, Embry-Riddle Aeronautical University, Daytona Beach, FL 32114, United States	IEEE Internet of Things Journal	2021	23274662
3752	Correction to: EDVWDD: Event-Driven Virtual Wheel-based Data Dissemination for Mobile Sink-Enabled Wireless Sensor Networks (The Journal of Supercomputing, (2021), 77, 10, (11432-11457), 10.1007/s11227-021-03714-7)	Jain S., Pattanaik K.K., Verma R.K., Shukla A.	Jain, S., Indian Institute of Information Technology, Bhopal, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Thapar University), Patiala, India; Pattanaik, K.K., ABV-Indian Institute of Information Technology and Management, Gwalior, India; Verma, R.K., Department of Computer Science Engineering, Bennett University, Greater Noida, India; Shukla, A., ABV-Indian Institute of Information Technology and Management, Gwalior, India	Journal of Supercomputing	2021	9208542
3753	Application of Interval Type-2 Fuzzy PID Controller for Frequency Regulation of AC Islanded Microgrid Using Modified Equilibrium Optimization Algorithm	Khadanga R.K., Kumar A., Panda S.	Khadanga, R.K., Department of Electrical and Electronics Engineering, CUTM, Bhubaneswar, Odisha 752050, India; Kumar, A., Department of Electrical and Instrumentation Engineering, TIET, Patiala, 147004, India; Panda, S., Department of Electrical Engineering, VSSUT, Burla, Odisha 768018, India	Arabian Journal for Science and Engineering	2021	2193567X
3754	A novel sine augmented scaled sine cosine algorithm for frequency control issues of a hybrid distributed two-area power system	Khadanga R.K., Kumar A., Panda S.	Khadanga, R.K., Department of Electrical & Electronics Engineering, CUTM, Bhubaneswar, Odisha 752050, India; Kumar, A., Department of Electrical and Instrumentation Engineering, TIET, Patiala, 147004, India; Panda, S., Department of Electrical Engineering, VSSUT, Burla, Odisha 768018, India	Neural Computing and Applications	2021	9410643
3755	Comparison of tool wear during friction stir welding of Al alloy and Al-SiC metal matrix composite	Bist A., Saini J.S., Sharma V.	Bist, A., Mechanical Engineering Department, Graphic Era Deemed to be University, Dehradun, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, V., Mechanical Engineering Department, MM University, Mullana, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021	9544089

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3756	Designing Authenticated Key Management Scheme in 6G-Enabled Network in a Box Deployed for Industrial Applications	Wazid M., Das A.K., Kumar N., Alazab M.	Wazid, M., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, 248002, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies (UPES), Uttaranchal, Dehradun, India, College of Engineering, IT and Environment, Charles Darwin University, Casuarina NT, 0810, Australia; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina NT, 0810, Australia	IEEE Transactions on Industrial Informatics	2021	15513203
3757	EDVWDD: Event-Driven Virtual Wheel-based Data Dissemination for Mobile Sink-Enabled Wireless Sensor Networks	Jain S., Pattanaik K.K., Verma R.K., Shukla A.	Jain, S., Indian Institute of Information Technology, Bhopal, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Thapar University), Patiala, India; Pattanaik, K.K., ABV-Indian Institute of Information Technology and Management, Gwalior, India; Verma, R.K., Department of Computer Science Engineering, Bennett University, Greater Noida, India; Shukla, A., ABV-Indian Institute of Information Technology and Management, Gwalior, India	Journal of Supercomputing	2021	9208542
3758	Interval-Valued Picture Uncertain Linguistic Generalized Hamacher Aggregation Operators and Their Application in Multiple Attribute Decision-Making Process	Garg H., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan	Arabian Journal for Science and Engineering	2021	2193567X
3759	T-spherical fuzzy power aggregation operators and their applications in multi-attribute decision making	Garg H., Ullah K., Mahmood T., Hassan N., Jan N.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Hassan, N., School of Mathematical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, Bangi, 43600, Malaysia; Jan, N., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
3760	Adaptive-Slope Squashing-Function-Based ANN for CSI Estimation and Symbol Detection in SFBC-OFDM System	Kapoor D.S., Kohli A.K.	Kapoor, D.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kohli, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2021	2193567X
3761	CDP-UA: Cognitive Data Processing Method Wearable Sensor Data Uncertainty Analysis in the Internet of Things Assisted Smart Medical Healthcare Systems	Manogaran G., Alazab M., Song H., Kumar N.	Manogaran, G., University of California, Davis, CA 95616, United States, College of Information and Electrical Engineering, Asia University, Taichung City, 41354, Taiwan; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia; Song, H., Department of Electrical Engineering and Computer Science Embry-Riddle Aeronautical University, Daytona Beach, FL 32114, United States; Kumar, N., Thapar University, Patiala, 147001, India	IEEE Journal of Biomedical and Health Informatics	2021	21682194
3762	Performance Evaluation of Negative Capacitance Junctionless FinFET under Extreme Length Scaling	Kaushal S., Rana A.K., Sharma R.	Kaushal, S., Department of Electronics and Communication Engineering, National Institute of Technology Hamirpur (NITH), Hamirpur, H.P. 177005, India; Rana, A.K., Department of Electronics and Communication Engineering, National Institute of Technology Hamirpur (NITH), Hamirpur, H.P. 177005, India; Sharma, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India	Silicon	2021	1876990X
3763	Robustly stabilizing proportional integral controller for uncertain system under computational delay	Saxena S., Hote Y.V.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, India; Hote, Y.V., Department of Electrical Engineering, Indian Institute of Technology Roorkee, India	JVC/Journal of Vibration and Control	2021	10775463
3764	Comparative assessment of application of ionizing radiations in degradation of amoxicillin trihydrate (AMT) in aqueous solutions	Changotra R., Rajput H., Guin J.P., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Guin, J.P., Radiation Technology Development Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemical Engineering Journal	2021	13858947
3765	Modeling of surface roughness in a novel magnetorheological gear profile finishing process	Yadav R.D., Singh A.K., Arora K.	Yadav, R.D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2021	9544062
3766	Stress analysis of smart composite plate structures	Chanda A., Chandel U., Sahoo R., Grover N.	Chanda, A., Civil Engineering Department, Indian Institute of Technology (BHU), Varanasi, India; Chandel, U., Civil Engineering Department, Indian Institute of Technology (BHU), Varanasi, India; Sahoo, R., Civil Engineering Department, Indian Institute of Technology (BHU), Varanasi, India; Grover, N., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2021	9544062

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3767	Modified Fuzzy Q Learning Based Classifier for Pneumonia and Tuberculosis	Kukker A., Sharma R.	Kukker, A., EIE Department, TIET, Patiala, India; Sharma, R., ICE Division, NSUT, India	IRBM	2021	19590318
3768	Performance Analysis of Gate Electrode Work Function Variations in Double-gate Junctionless FET	Kumar S., Chatterjee A.K., Pandey R.	Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Chatterjee, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Silicon	2021	1876990X
3769	Experimental verification of super-compact ultra-wideband (UWB) polarization and incident angle-independent metamaterial absorber	Kaur M., Singh H.S.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	International Journal of Microwave and Wireless Technologies	2021	17590787
3770	Factors influencing dividend decisions of Indian construction, housing and real estate companies: An empirical panel data analysis	Sharma R.K.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	International Journal of Finance and Economics	2021	10769307
3771	Energy-Efficient Gaussian Filter Design Using Novel Low-Complexity Accuracy Reconfigurable Reverse Carry Adder	Garg B.	Garg, B., Thapar Institute of Engineering and Technology, Patiala, India	National Academy Science Letters	2021	0250541X
3772	Real-time cheating immune secret sharing for remote sensing images	Shivani S., Patel S.C., Arora V., Sharma B., Jolfaei A., Srivastava G.	Shivani, S., Thapar Institute of Engineering and Technology, Patiala, India; Patel, S.C., School of Computer Science and Engineering, VIT Bhopal University, Bhopal, India; Arora, V., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh, India; Jolfaei, A., Department of Computing, Macquarie University, Sydney, Australia; Srivastava, G., Department of Mathematics and Computer Science, Brandon University, Brandon, R7A 6A9, Canada, Research Center for Interneural Computing, China Medical University, Taichung, Taiwan 40402, Taiwan, College of Information and Electrical Engineering, Asia University, Taichung, 41354, Taiwan	Journal of Real-Time Image Processing	2021	18618200
3773	A Low Supply Voltage, Low Line Sensitivity and High PSRR Subthreshold CMOS Voltage Reference	Thakur A., Pandey R., Rai S.K.	Thakur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Circuits, Systems and Computers	2021	2181266
3774	Novel Meminductor Emulators Using Operational Amplifiers and their Applications in Chaotic Oscillators	Singh A., Rai S.K.	Singh, A., Department of Electronics and Communication Engineering (ECED), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rai, S.K., Department of Electronics and Communication Engineering (ECED), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Circuits, Systems and Computers	2021	2181266
3775	Evaluations of Genomic Prediction and Identification of New Loci for Resistance to Stripe Rust Disease in Wheat (<i>Triticum aestivum</i> L.)	Tomar V., Dhillon G.S., Singh D., Singh R.P., Poland J., Chaudhary A.A., Bhati P.K., Joshi A.K., Kumar U.	Tomar, V., Borlaug Institute for South Asia, Ludhiana, India, International Maize and Wheat Improvement Center, New Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico; Dhillon, G.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, D., Department of Plant Pathology, Kansas State University, Manhattan, KS, United States, The Climate Corporation, Bayer Crop Science, Creve Coeur, MO, United States; Singh, R.P., Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico; Poland, J., Department of Plant Pathology, Kansas State University, Manhattan, KS, United States; Chaudhary, A.A., Department of Biology, College of Science, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia; Bhati, P.K., Borlaug Institute for South Asia, Ludhiana, India; Joshi, A.K., Borlaug Institute for South Asia, Ludhiana, India, International Maize and Wheat Improvement Center, New Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico; Kumar, U., Borlaug Institute for South Asia, Ludhiana, India, International Maize and Wheat Improvement Center, New Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico	Frontiers in Genetics	2021	16648021

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3776	A xanthen-based novel colorimetric and fluorometric chemosensor for the detection of hydrazine and its application in the bio-imaging of live cells	Guria U.N., Manna S.K., Maiti K., Samanta S.K., Ghosh A., Datta P., Mandal D., Mahapatra A.K.	Guria, U.N., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, West Bengal 711103, India; Manna, S.K., Department of Chemistry, Haldia Government College, Debhog, Purba Medinipur, West Bengal 721657, India; Maiti, K., Department of Chemistry, University of Calcutta, University College of Science, 92, A. P. C. Road, Kolkata, 700009, India; Samanta, S.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, West Bengal 711103, India; Ghosh, A., Centre for Healthcare Science, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Datta, P., Centre for Healthcare Science, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mahapatra, A.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, West Bengal 711103, India	New Journal of Chemistry	2021	11440546
3777	Power generation using thermoelectric power generator with parabolic solar dish concentrator	Nyandang A.N., Singh B., Remeli M.F., Oberoi A.	Nyandang, A.N., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Selangor, Shah Alam, 40450, Malaysia; Singh, B., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Selangor, Shah Alam, 40450, Malaysia; Remeli, M.F., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Selangor, Shah Alam, 40450, Malaysia; Oberoi, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Pujab, Patiala, 147004, India	Journal of Physics: Conference Series	2021	17426588
3778	Out of plane performance of novel concrete sandwich panel using different geosynthetics	Bishnoi U., Danie Roy A.B., Kwatra N.	Bishnoi, U., Thapar Institute of Engineering and Technology, Patiala, India; Danie Roy, A.B., Thapar Institute of Engineering and Technology, Patiala, India; Kwatra, N., Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2021	9500618
3779	Bio-consolidation of cracks with fly ash amended biogrouting in concrete structures	Joshi S., Goyal S., Sudhakara Reddy M.	Joshi, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Construction and Building Materials	2021	9500618
3780	Bacillus circulans MTCC 7906 aided facile development of bioconjugate nano-silica alkaline protease formulation with superlative dehairing potential	Joshi N., Kocher G.S., Kalia A., Banga H.S.	Joshi, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kocher, G.S., Department of Microbiology, College of Basic Sciences and Humanities, Punjab Agricultural University, Ludhiana, Punjab 141001, India; Kalia, A., Electron Microscopy and Nanoscience Laboratory, Department of Soil Science, College of Agriculture, Punjab Agricultural University, Ludhiana, Punjab 141001, India; Banga, H.S., Department of Veterinary Pathology, College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana, Punjab 141004, India	Environmental Pollution	2021	2697491
3781	Designing of biodegradable polycaprolactone: Binary and ternary coatings to minimize the defects and cost of solvent(s)	Arya R.K., Kaur J., Chandra A., Ahuja S., Rawat M., Sharma J.	Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India; Kaur, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Applied Polymer Science	2021	218995
3782	A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETS	Wang C., Huang R., Shen J., Liu J., Vijayakumar P., Kumar N.	Wang, C., School of Computer and Software, Nanjing University of Information Science and Technology, Nanjing, China; Huang, R., School of Computer and Software, Nanjing University of Information Science and Technology, Nanjing, China; Shen, J., Jiangsu Engineering Center of Network Monitoring, Nanjing University of Information Science and Technology, Nanjing, China, Cyberspace Security Research Center, Peng Cheng Laboratory, Shenzhen, 518000, China; Liu, J., School of Cyber Science and Technology, Beihang University, Beijing, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering, Tindivanam, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India	IEEE Internet of Things Journal	2021	23274662
3783	Application of clean gaseous fuels in compression ignition engine under dual fuel mode: A technical review and Indian perspective	Sharma H., Dhir A., Mahla S.K.	Sharma, H., Enviro-Energy Research Lab, School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Dhir, A., Enviro-Energy Research Lab, School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Hoshiarpur Campus, Hoshiarpur, 146001, India	Journal of Cleaner Production	2021	9596526

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3784	Nitritotris-methylenephosphonate sorption from wastewater on zirconium-lanthanum modified magnetite: Reusability and mechanism study	Altaf R., Lin X., Zhuang W.-Q., Lu H., Rout P.R., Liu D.	Altaf, R., Key Laboratory of Equipment and Informatization in Environment Controlled Agriculture, Ministry of Agriculture and Rural Affairs, College of Biosystems Engineering and Food Science, Zhejiang University, Hangzhou, 310058, China; Lin, X., Key Laboratory of Equipment and Informatization in Environment Controlled Agriculture, Ministry of Agriculture and Rural Affairs, College of Biosystems Engineering and Food Science, Zhejiang University, Hangzhou, 310058, China; Zhuang, W.-Q., Department of Civil and Environmental Engineering, Faculty of Engineering, The University of Auckland, Symonds St, Auckland, 1010, New Zealand; Lu, H., Key Laboratory of Environment Remediation and Ecological Health, Ministry of Education, College of Environmental Resource Sciences, Zhejiang University, Hangzhou, 310058, China; Rout, P.R., Key Laboratory of Equipment and Informatization in Environment Controlled Agriculture, Ministry of Agriculture and Rural Affairs, College of Biosystems Engineering and Food Science, Zhejiang University, Hangzhou, 310058, China, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Liu, D., Key Laboratory of Equipment and Informatization in Environment Controlled Agriculture, Ministry of Agriculture and Rural Affairs, College of Biosystems Engineering and Food Science, Zhejiang University, Hangzhou, 310058, China	Journal of Cleaner Production	2021	9596526
3785	Emphasis of Weld Time, Shielding Gas and Oxygen Content in Activated Fluxes on the Weldment Microstructure	Tathgir S., Rathod D.W., Batish A.	Tathgir, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Thapar Technology Campus, Patiala, 147004, India; Rathod, D.W., Department of Mechanical Engineering, National Institute of Technology Srinagar, Hazratbal, Srinagar, 190006, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Thapar Technology Campus, Patiala, 147004, India	Mechanical Engineering for Society and Industry	2021	27985245
3786	Enantioselective Total Synthesis of Sacubitril	Kaur A., Gehlawat A., Prakash R., Pandey S.K.	Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Gehlawat, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Pandey, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, 221 005, India	ChemistrySelect	2021	23656549
3787	Vision-based force distribution analysis for object catching	Kansal S.	Kansal, S., Thapar Institute of Engineering Technology, Punjab, Patiala, India	Journal of Electronic Imaging	2021	10179909
3788	When Blockchain Meets Edge Intelligence: Trusted and Security Solutions for Consumers	Gupta R., Reebadiya D., Tanwar S., Kumar N., Guizani M.	Gupta, R., Nirma University, India; Reebadiya, D., Nirma University, India; Tanwar, S., Nirma University, India; Kumar, N., Thapar Institute of Engineering and Technology, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, Asia University, Taiwan; Guizani, M., Qatar University, Qatar	IEEE Network	2021	8908044
3789	Performance analysis of basin-type vertical multiple-effect diffusion solar still integrated with solar pond: Energy, exergy and economical analysis	Dhindsa G.S., Mittal M.K., Sokhal G.S., Sokhal K.S., Khalilpoor N., Emani S.	Dhindsa, G.S., Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab, 140413, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Sokhal, G.S., Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab, 140413, India; Sokhal, K.S., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Khalilpoor, N., Department of Energy Engineering, Graduate School of the Environment and Energy, Science and Research Branch, Islamic Azad University, Tehran, Iran; Emani, S., Chemical Engineering Department, Universiti Teknologi Petronas, Bandar Seri Iskandar, Perak D.R., Malaysia	International Journal of Low-Carbon Technologies	2021	17481317
3790	Performance analysis of pump materials employed in bottom ash slurry erosion conditions	Singh J., Mohapatra S.K., Kumar S.	Singh, J., Department of Engineering, Punjab State Aeronautical Engineering College, Patiala, Punjab, 147001, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand, 831014, India	Jurnal Tribologi	2021	22897232
3791	Bottom-boosting differential evolution based digital image security analysis	Ghai D., Tiwari S., Das N.N.	Ghai, D., Lovely Professional University Punjab 144001, India; Tiwari, S., Department of Computer Science & Engineering, Thapar Institute of Engineering And Technology, Patiala, Punjab 147004, India; Das, N.N., Department of Information Technology, School of Computing and Information Technology, Manipal University Jaipur, Jaipur, Rajasthan 303007, India	Journal of Information Security and Applications	2021	22142134
3792	A Review on Mechanisms and Testing of Wear in Slurry Pumps, Pipeline Circuits, and Hydraulic Turbines	Singh J.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Tribology	2021	7424787
3793	Derated Mode of Power Generation in PV System Using Modified Perturb and Observe MPPT Algorithm	Kumar V., Singh M.	Kumar, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Modern Power Systems and Clean Energy	2021	21965625

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3794	Hamy mean operators based on complex q-rung orthopair fuzzy setting and their application in multi-attribute decision making	Garg H., Sirbiladze G., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, 147004, India; Sirbiladze, G., Department of Computer Sciences of Ivane Javakishvili, Tbilisi State University, University St. 13, Tbilisi, 0186, Georgia; Ali, Z., Department of Mathematics & Statistics, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Mahmood, T., Department of Mathematics & Statistics, International Islamic University Islamabad, Islamabad, 44000, Pakistan	Mathematics	2021	22277390
3795	Special issue on "augmented reality, virtual reality & semantic 3d reconstruction"	Lv Z., Wang J.-Y., Kumar N., Lloret J.	Lv, Z., School of Data Science and Software Engineering, Qingdao University, Qingdao, 266000, China; Wang, J.-Y., PEGASUS FZ LLC, Abu Dhabi, 51133, United Arab Emirates; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, 248001, India; Lloret, J., Department of Communications, Polytechnic University of Valencia, Valencia, 46022, Spain	Applied Sciences (Switzerland)	2021	20763417
3796	A multiplicative Gauss-Newton minimization algorithm: Theory and application to exponential functions	Gupta A., Kumar S.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Mathematics	2021	10051031
3797	Prior information affecting traffic dynamics in a two dimensional (2D) network	Kaur D., Sharma S.	Kaur, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	European Physical Journal B	2021	14346028
3798	Microwave cladding of NiCrSiC-5Al2O3 on austenitic stainless steel to improve cavitation erosion resistance	Bansal S., Mago J., Gupta D., Jain V.	Bansal, S., Surface Engineering and Tribology Research Laboratory, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mago, J., Surface Engineering and Tribology Research Laboratory, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, D., Surface Engineering and Tribology Research Laboratory, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jain, V., Surface Engineering and Tribology Research Laboratory, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Surface Topography: Metrology and Properties	2021	2051672X
3799	On flexural and pull out properties of smart polymer based 3D printed functional prototypes	Sharma R., Singh R., Batish A.	Sharma, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
3800	Glassy polymers—diffusion, sorption, ageing and applications	Arya R.K., Thapliyal D., Sharma J., Verros G.D.	Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Thapliyal, D., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, 147004, India; Verros, G.D., Laboratory of Chemistry and Technology of Polymers and Colors, Department of Chemistry, Aristotle University of Thessaloniki, P.O. Box 454, Plagiari, Thessaloniki, 57500, Greece	Coatings	2021	20796412

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3801	Modification of a single atom affects the physical properties of double fluorinated fmoc-phe derivatives	Aviv M., Cohen-Gerassi D., Orr A.A., Misra R., Arnon Z.A., Shimon L.J.W., Shacham-Diamand Y., Tamamis P., Adler-Abramovich L.	Aviv, M., Department of Oral Biology, The Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for the Physics and Chemistry of Living Systems, Tel Aviv University, Tel Aviv, 6997801, Israel, School of Mechanical Engineering, Afeka Tel Aviv Academic College of Engineering, Tel Aviv, 6910717, Israel; Cohen-Gerassi, D., Department of Oral Biology, The Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for the Physics and Chemistry of Living Systems, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Materials Science and Engineering, Iby and Aladar Fleischman Faculty of Engineering, Tel Aviv University, Tel Aviv, 6997801, Israel; Orr, A.A., Artie McFerrin, Department of Chemical Engineering, Texas A&M University, College Station, TX 77843-3122, United States; Misra, R., Department of Oral Biology, The Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for the Physics and Chemistry of Living Systems, Tel Aviv University, Tel Aviv, 6997801, Israel; Arnon, Z.A., Department of Oral Biology, The Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for the Physics and Chemistry of Living Systems, Tel Aviv University, Tel Aviv, 6997801, Israel; Shimon, L.J.W., Department of Chemical Research Support, Weizmann Institute of Science, Rehovot, 76132701, Israel; Shacham-Diamand, Y., Department of Materials Science and Engineering, Iby and Aladar Fleischman Faculty of Engineering, Tel Aviv University, Tel Aviv, 6997801, Israel, Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, TAU/TIET Food Security Center of Excellence (T2FSCoE), Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tamamis, P., Artie McFerrin, Department of Chemical Engineering, Texas A&M University, College Station, TX 77843-3122, United States, Department of Materials Science and Engineering, Texas A&M University, College Station, TX 77843-3003, United States; Adler-Abramovich, L., Department of Oral Biology, The Goldschleger School of Dental Medicine, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, 6997801, Israel, The Center for the Physics and Chemistry of Living Systems, Tel Aviv University, Tel Aviv, 6997801, Israel	International Journal of Molecular Sciences	2021	16616596
3802	Experimental investigation for fine finishing of the tapered mould cavity using a newly developed GWMRF process	Aggarwal A., Singh A.K.	Aggarwal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2021	16785878
3803	Infrared Image Correlation for Non-destructive Testing and Evaluation of Materials	Arora V., Mulaveesala R., Rani A., Kumar S., Kher V., Mishra P., Kaur J., Dua G., Jha R.K.	Arora, V., School of Electronics, Indian Institute of Information Technology Una, Chandpur, Teh. Haroli, Distt. Una, Himachal Pradesh, India; Mulaveesala, R., Manpower Development in Instrument Technology (MDIT) Laboratory, Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India; Rani, A., Department of Electrical Engineering, InfraRed Imaging Laboratory (IRIL), Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India; Kumar, S., School of Electronics, Indian Institute of Information Technology Una, Chandpur, Teh. Haroli, Distt. Una, Himachal Pradesh, India; Kher, V., Department of Electrical Engineering, InfraRed Imaging Laboratory (IRIL), Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India; Mishra, P., Department of Electrical Engineering, InfraRed Imaging Laboratory (IRIL), Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India; Kaur, J., Department of Electrical Engineering, InfraRed Imaging Laboratory (IRIL), Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India; Dua, G., Thapar Institute of Engineering & Technology, Punjab, 147004, India; Jha, R.K., Department of Electrical Engineering, Indian Institute of Technology Patna, Bihta, Patna, 801106, India	Journal of Nondestructive Evaluation	2021	1959298
3804	CT image reconstruction using NLMfuzzyCD regularization method	Devi M., Singh S., Tiwari S.	Devi, M., Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana, India; Singh, S., Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana, India; Tiwari, S., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India	Current Medical Imaging	2021	15734056
3805	Surface structure, morphology and crystal phase-dependent photoactivity of MnO ₂ nanocatalysts under sunlight	Thakur S., Tinna D., Pal B.	Thakur, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tinna, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bulletin of Materials Science	2021	2504707
3806	A Consortium Blockchain-Based Energy Trading for Demand Response Management in Vehicle-to-Grid	Aggarwal S., Kumar N.	Aggarwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, UK 248007, India	IEEE Transactions on Vehicular Technology	2021	189545

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3807	Design of a compact superstrate-loaded slotted implantable antenna for ISM band applications	Singh G., Kaur J.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
3808	Cybersecurity analysis of load frequency control in power systems: A survey	Saxena S., Bhatia S., Gupta R.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Bhatia, S., School of Computer Science and Engineering, Sacred Heart University, 3135 Easton Turnpike, Fairfield, CT 06825, United States; Gupta, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, 147004, India	Designs	2021	24119660
3809	CeO ₂ supported Zn _{1-x} MnxS (x: 0.025, 0.05, 0.075 and 0.10) catalyst for photoremoval of rhodamine B dye	Kaur G., Gupta A., Wolski L., Pandey O.P.	Kaur, G., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Department of Mechanical Engineering, GLA University, Mathura, 281406, India; Wolski, L., Adam Mickiewicz University, Poznan, Uniwersytetu Poznanskiiego 8, Poznan, 61-614, Poland; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Solar Energy	2021	0038092X
3810	Effect of vanadium doping on MXene-based supercapacitor	Garg R., Agarwal A., Agarwal M.	Garg, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Science: Materials in Electronics	2021	9574522
3811	Formulation of cartap hydrochloride crosslinked chitosan tripolyphosphate nanospheres and its characterization	Kaur I., Goyal D., Agnihotri S.	Kaur, I., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed To Be University), Patiala, Punjab 147001, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed To Be University), Patiala, Punjab 147001, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed To Be University), Patiala, Punjab 147001, India, Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Kundli, Sonapat, Haryana 131028, India	Colloid and Polymer Science	2021	0303402X
3812	Time-dependent growth of CaO nano flowers from egg shells exhibit improved adsorption and catalytic activity	Thakur S., Singh S., Pal B.	Thakur, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Advanced Powder Technology	2021	9218831
3813	Computational analysis of a dual-port semi-circular patch antenna combined with Koch curve fractals for ultra-wideband systems	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Engineering Reports	2021	25778196
3814	An understandable way to discover methods to model interval input-output samples	Xu S., Li S., Liu H., Garg H., Jin X., Zhao J.	Xu, S., College of Mathematics and Statistics Science, Shaanxi Normal University, Xi'an, 710062, China; Li, S., College of Mathematics and Statistics Science, Shaanxi Normal University, Xi'an, 710062, China; Liu, H., School of Science, Guangxi University of Nationalities, Nanning, 530006, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Jin, X., College of Mathematics and Statistics Science, Shaanxi Normal University, Xi'an, 710062, China; Zhao, J., School of Psychology, Shaanxi Normal University, Xi'an, 710062, China	Computational and Applied Mathematics	2021	22383603
3815	Improved recognition results of offline handwritten Gurumukhi characters using hybrid features and adaptive boosting	Kumar M., Jindal M.K., Sharma R.K., Jindal S.R., Singh H.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Jindal, M.K., Department of Computer Science & Applications, Panjab University Regional Centre, Muktsar, Punjab, India; Sharma, R.K., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Jindal, S.R., Department of Computer Science & Engineering, Yadavindra College of Engineering, Talwandi Sabo, Bathinda, Punjab, India; Singh, H., Chitkara University Institute of Engineering and Technology Chitkara University, Chandigarh, Punjab, India	Soft Computing	2021	14327643
3816	An efficient reversible and secure patient data hiding algorithm for E-healthcare	Bhardwaj R., Singh A.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
3817	Estimation of minimum color channel using difference channel in single image Dehazing	Raikwar S.C., Tapaswi S.	Raikwar, S.C., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Tapaswi, S., ABV-Indian Institute of Information Technology and Management, Morena Link Road, Gwalior, 474015, India	Multimedia Tools and Applications	2021	13807501
3818	Tuning rules: Graphical analysis and experimental validation of a simplified fractional order controller for a class of open-loop unstable systems	Dwivedi P., Pandey S.	Dwivedi, P., Department of Electrical Engineering, NIT Uttarakhand, Srinagar Garhwal, India; Pandey, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Asian Journal of Control	2021	15618625

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3819	Recent progress in bimetallic nanostructure impregnated metal-organic framework for photodegradation of organic pollutants	Bathla A., Younis S.A., Pal B., Kim K.-H.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Younis, S.A., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea, Analysis and Evaluation Department, Egyptian Petroleum Research Institute, Cairo, Nasr City 11727, Egypt; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea	Applied Materials Today	2021	23529407
3820	Flaw and amendment of a two-party authenticated key agreement protocol for post-quantum environments	Dabra V., Bala A., Kumari S.	Dabra, V., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India, Department of Computer Science & Engineering, SGT University, Gurugram, India; Bala, A., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumari, S., Department of Mathematics, Chaudhary Charan Singh University, Meerut, India	Journal of Information Security and Applications	2021	22142134
3821	Investigation on wall thickness reduction of hydropower pipeline underwent to erosion-corrosion process	Singh J., Singh S., Pal Singh J.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, S., Department of Computer Science and Engineering, Bennett University, Greater Noida 201310, Uttar Pradesh, India; Pal Singh, J., School of Mechanical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India	Engineering Failure Analysis	2021	13506307
3822	Imine derivative as an analytical probe for Al ³⁺ , F ⁻ and CN ⁻ sensing with antibacterial activity against E. coli – An application of electrochemical and spectrofluorimetric techniques	Mittal S.K., Chhibber M., Gupta S.	Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 14700, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 14700, India; Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 14700, India	Microchemical Journal	2021	0026265X
3823	Commentary on “Utilizing Linguistic Picture Fuzzy Aggregation Operators for Multiple-Attribute Decision-Making Problems”	Appadoo S.S., Makhani M., Kumar A.	Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Makhani, M., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147004, India	International Journal of Fuzzy Systems	2021	15622479
3824	Existence of series solutions for certain nonlinear systems of time fractional partial differential equations	Singla K.	Singla, K., Department of Mathematics, Chandigarh University, Gharuan-Mohali, Punjab, India, School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala 147004, India	Journal of Geometry and Physics	2021	3930440
3825	A novel machine learning-based analytical framework for automatic detection of COVID-19 using chest X-ray images	Johri S., Goyal M., Jain S., Baranwal M., Kumar V., Upadhyay R.	Johri, S., Analytics and Insight Unit, Tata Consultancy Services Pvt. Ltd., Bangalore, India; Goyal, M., RnD Division, DOCONVID AI Bestech Business Tower, Mohali, India, Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Jain, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India, University Institute of Biotechnology, Chandigarh University, Mohali, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Imaging Systems and Technology	2021	8999457
3826	Momentum transfer across a semi-circular porous cylinder attached to a channel wall	Kaur R., Chandra A., Sharma S.	Kaur, R., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Meccanica	2021	256455
3827	Random vibration response of composite-sandwich laminates	Sahoo R., Grover N., Singh B.N.	Sahoo, R., Civil Engineering Department, Indian Institute of Technology (Banaras Hindu University), Varanasi, UP 221005, India; Grover, N., Department of Mechanical Engineering, Thapar University, Patiala, Punjab 147001, India; Singh, B.N., Aerospace Engineering Department, Indian Institute of Technology, Kharagpur, WB 721302, India	Archive of Applied Mechanics	2021	9391533
3828	A self-adaptive hybridized differential evolution based mole-rat algorithm for engineering optimization problems	Salgotra R., Singh U., Singh G., Mittal N., Gandomi A.H.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, G., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Mittal, N., Department of ECE, Chandigarh University, Mohali, India; Gandomi, A.H., Faculty of Engineering & Information Technology, University of Technology SydneyNSW 2007, Australia	Computer Methods in Applied Mechanics and Engineering	2021	457825
3829	Conditional acceptance of digitized business model innovation at the BoP: A stakeholder analysis of eKutir in India	Sengupta T., Narayanamurthy G., Hota P.K., Sarker T., Dey S.	Sengupta, T., Goa Institute of Management, Near Ravindra Bhavan, Sanquelim, Poriem, Goa, 403505, India; Narayanamurthy, G., University of Liverpool Management School, Liverpool, United Kingdom; Hota, P.K., Research School of Management, ANU College of Business and Economics, Australian National University, Canberra ACT, 0200, Australia, LM Thapar School of Management, Thapar Institute of Engineering and Technology, Mohali, Punjab, India; Sarker, T., Griffith Business School, Griffith University, Brisbane, Queensland, Australia; Dey, S., Indus Business Academy, Bangalore, India	Technological Forecasting and Social Change	2021	401625

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3830	Characterization of modeled inhibitory binding sites on isoform one of the Na ⁺ /H ⁺ exchanger	Li X., Kim J., Yang J., Dutta D., Fliegel L.	Li, X., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada; Kim, J., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada; Yang, J., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada, School of Life Science and Technology, Henan Institute of Science and Technology, Xinxiang, 453003, China; Dutta, D., Department of Biotechnology, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab 147004, India; Fliegel, L., Department of Biochemistry, University Alberta, Edmonton, AB T6G 2H7, Canada	Biochimica et Biophysica Acta - Biomembranes	2021	52736
3831	A New Set of Mutation Operators for Dragonfly Algorithm	Salgotra R., Singh U., Singh S., Singh G., Saha S.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, G., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Saha, S., Department of Computer Science, Indian Institute of Technology, Patna, India	Arabian Journal for Science and Engineering	2021	2193567X
3832	Defect states induced luminescence and electrochemical studies of boron carbon nitride nanosheets	Kaur M., Ahmad Mir R., Chauhan I., Singh K., Krishnan U., Kumar M., Devi P., Pandey O.P., Kumar A.	Kaur, M., Advanced Functional Materials Laboratory, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140 406, India; Ahmad Mir, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chauhan, I., Advanced Functional Materials Laboratory, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140 406, India; Singh, K., Advanced Functional Materials Laboratory, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140 406, India; Krishnan, U., Advanced Functional Materials Laboratory, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140 406, India; Kumar, M., CSIR-Central Scientific Instruments Organisation, Sector-30, Chandigarh, 160030, India; Devi, P., CSIR-Central Scientific Instruments Organisation, Sector-30, Chandigarh, 160030, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, A., Advanced Functional Materials Laboratory, Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140 406, India	Applied Surface Science	2021	1694332
3833	Degradation of pharmaceutical drug paracetamol via UV irradiation using Fe-TiO ₂ composite photocatalyst: statistical analysis and parametric optimization	Puri S., Thakur I., Verma A., Barman S.	Puri, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Science and Pollution Research	2021	9441344
3834	MIMO Antenna System with Self Isolation Characteristics for GSM and sub-6 GHz 5G Applications	Kaur N., Kaur J., Sharma S.	Kaur, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
3835	An Identity Based Authentication Protocol for Smart Grid Environment Using Physical Uncloneable Function	Badar H.M.S., Qadri S., Shamshad S., Ayub M.F., Mahmood K., Kumar N.	Badar, H.M.S., Department of CS IT, The Islamia University of Bahawalpur, Bahawalpur, 63100, Pakistan; Qadri, S., Department of CS IT, The Islamia University of Bahawalpur, Bahawalpur, 63100, Pakistan, Department of Computer Science, Muhammad Nawaz Sharif University of Agriculture, Multan, 66000, Pakistan; Shamshad, S., Department of Computer Science, COMSATS University Islamabad (Sahiwal Campus), Sahiwal, 57000, Pakistan; Ayub, M.F., Department of Computer Science, COMSATS University Islamabad (Sahiwal Campus), Sahiwal, 57000, Pakistan; Mahmood, K., Department of Computer Science, COMSATS University Islamabad (Sahiwal Campus), Sahiwal, 57000, Pakistan; Kumar, N., Department of CSED, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India	IEEE Transactions on Smart Grid	2021	19493053
3836	Security preservation in industrial medical CPS using Chebyshev map: An AI approach	Qi R., Ji S., Shen J., Vijayakumar P., Kumar N.	Qi, R., School of Computer and Software, Nanjing University of Information Science & Technology, Nanjing, 210044, China; Ji, S., School of Computer and Software, Nanjing University of Information Science & Technology, Nanjing, 210044, China, Jiangsu Collaborative Innovation Center on Atmospheric Environment and Equipment Technology, China, Jiangsu Engineering Center of Network Monitoring, China; Shen, J., School of Computer and Software, Nanjing University of Information Science & Technology, Nanjing, 210044, China, Jiangsu Collaborative Innovation Center on Atmospheric Environment and Equipment Technology, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, Tamil Nadu 604001, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	Future Generation Computer Systems	2021	0167739X
3837	Auto-scaling techniques for IoT-based cloud applications: a review	Verma S., Bala A.	Verma, S., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Bala, A., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	Cluster Computing	2021	13867857

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3838	Quantum learning-enabled green communication for next-generation wireless systems	Jaiswal A., Kumar S., Kaiwartya O., Kashyap P.K., Kanjo E., Kumar N., Song H.	Jaiswal, A., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Kumar, S., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Kaiwartya, O., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Kashyap, P.K., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Kanjo, E., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computing, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan; Song, H., Department of Electrical Engineering and Computer Science, Embry-Riddle Aeronautical University, Daytona Beach, FL 32114, United States	IEEE Transactions on Green Communications and Networking	2021	24732400
3839	S. I: hybridization of neural computing with nature-inspired algorithms	Pandey H.M., Bessis N., Kumar N., Chaudhary A.	Pandey, H.M., Edge Hill University, Ormskirk, United Kingdom; Bessis, N., Edge Hill University, Ormskirk, United Kingdom; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Chaudhary, A., University of Missouri, St. Louis, United States	Neural Computing and Applications	2021	9410643
3840	Experimental analysis of machine learning methods for credit score classification	Tripathi D., Edla D.R., Bablani A., Shukla A.K., Reddy B.R.	Tripathi, D., Thapar Institute of Engineering & Technology Patiala, Patiala, Punjab, India; Edla, D.R., National Institute of Technology Goa, Ponda, India; Bablani, A., Indian Institute of Information Technology, Sri City, Chittoor, Sri City, Andhra Pradesh, India; Shukla, A.K., VIT University AP-Andhra Pradesh, Amaravati, India; Reddy, B.R., SRM University AP-Andhra Pradesh, Amaravati, India	Progress in Artificial Intelligence	2021	21926352
3841	Blockchain for decentralized multi-drone to combat COVID-19 and future pandemics: Framework and proposed solutions	Alsamhi S.H., Lee B., Guizani M., Kumar N., Qiao Y., Liu X.	Alsamhi, S.H., Software Research Institute, Athlone Institute of Technology, Athlone, Ireland, Electronics Engineering, Faculty of Engineering, IBB University, Ibb, Yemen; Lee, B., Software Research Institute, Athlone Institute of Technology, Athlone, Ireland; Guizani, M., Computer Science and Engineering Department, Qatar University, Doha, Qatar; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Qiao, Y., Software Research Institute, Athlone Institute of Technology, Athlone, Ireland; Liu, X., College of Information Engineering (College of Artificial Intelligence), Yangzhou University, Yangzhou, China	Transactions on Emerging Telecommunications Technologies	2021	21615748
3842	IEC 61850 communication based dual stage load frequency controller for isolated hybrid microgrid	Aftab M.A., Hussain S.M.S., Latif A., Das D.C., Ustun T.S.	Aftab, M.A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Hussain, S.M.S., Department of Computer Science, National University of Singapore, Singapore, 119077, Singapore; Latif, A., Department of Electrical Engineering, National Institute of Technology, Silchar, Assam 788010, India; Das, D.C., Department of Electrical Engineering, National Institute of Technology, Silchar, Assam 788010, India; Ustun, T.S., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0215, Japan	International Journal of Electrical Power and Energy Systems	2021	1420615
3843	Blockchain-based Secure and Intelligent Sensing Scheme for Autonomous Vehicles Activity Tracking Beyond 5G Networks	Reebadiya D., Rathod T., Gupta R., Tanwar S., Kumar N.	Reebadiya, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Rathod, T., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Peer-to-Peer Networking and Applications	2021	19366442
3844	EDL-COVID: Ensemble Deep Learning for COVID-19 Case Detection from Chest X-Ray Images	Tang S., Wang C., Nie J., Kumar N., Zhang Y., Xiong Z., Barnawi A.	Tang, S., College of Intelligence and Computing, Tianjin University, Tianjin, China; Wang, C., College of Intelligence and Computing, Tianjin University, Tianjin, China; Nie, J., School of Computer Science and Engineering, Nanyang Technological University, Singapore, Singapore; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Zhang, Y., School of Computer Science and Technology, Technology University of Wuhan, Wuhan, China; Xiong, Z., Pillar of Information Systems Technology and Design, Singapore University of Technology and Design, Singapore, Singapore; Barnawi, A., Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	IEEE Transactions on Industrial Informatics	2021	15513203
3845	OPSA: an optimized prediction based scheduling approach for scientific applications in cloud environment	Kaur G., Bala A.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Cluster Computing	2021	13867857

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3846	S-shaped versus V-shaped transfer functions for binary Manta ray foraging optimization in feature selection problem	Ghosh K.K., Guha R., Bera S.K., Kumar N., Sarkar R.	Ghosh, K.K., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Guha, R., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Bera, S.K., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, Taiwan, School of Computer Science, University of Petroleum and Energy Studies (UPES), Dehradun, Uttarakhand 248007, India, King Abdul Aziz University, Jeddah, Saudi Arabia; Sarkar, R., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India	Neural Computing and Applications	2021	9410643
3847	Prototype continuous microwave foam-mat dryer: design and fabrication	Qadri O.S., Srivastava A.K.	Qadri, O.S., Department of Post Harvest Engineering and Technology, Aligarh Muslim University, Aligarh, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, A.K., Department of Post Harvest Engineering and Technology, Aligarh Muslim University, Aligarh, India	Journal of Food Science and Technology	2021	221155
3848	Investigating the potential of redundant manipulators in narrow channels	Singla A., Narayan J., Arora H.	Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Narayan, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Arora, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2021	9544062
3849	Investigation of multiple heterogeneous relationships using a q-rung orthopair fuzzy multi-criteria decision algorithm	Yang Z., Garg H., Li J., Srivastava G., Cao Z.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Li, J., College of Economics and Management, Harbin Engineering University, Harbin, China; Srivastava, G., Department of Mathematics and Computer Science, Brandon University, Brandon, Canada, Research Centre of Interneural Computing, China Medical University, Taichung City, Taiwan; Cao, Z., Discipline of ICT, College of Sciences and Engineering, University of Tasmania, Hobart, Australia, School of Computer Science, University of Technology Sydney, Sydney, Australia	Neural Computing and Applications	2021	9410643
3850	Study on barium titanate and graphene reinforced PVDF matrix for 4D applications	Sharma R., Singh R., Batish A.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Thermoplastic Composite Materials	2021	8927057
3851	A Context Aware Recommender System for Predicting Crop Factors using LSTM	Gill H.K., Sehgal V.K., Verma A.K.	Gill, H.K., Jaypee University of Information Technology, Department of Computer Science and Engineering and Information Technology, Solan, India; Sehgal, V.K., Jaypee University of Information Technology, Department of Computer Science and Engineering and Information Technology, Solan, India; Verma, A.K., Thapar University, Department of Computer Science and Engineering, Patiala, India	2021 Asian Conference on Innovation in Technology, ASIANCON 2021	2021	
3852	An Interactive Alphabet and Number learning system using OpenCV and CNN	Tayal A.	Tayal, A., Thapar University, B.E. Computer Science, Patiala, India	2021 Asian Conference on Innovation in Technology, ASIANCON 2021	2021	
3853	Sleep Quality and Best Posture Prediction using Contextual Body Sensors using LSTM	Gill H.K., Sehgal V.K., Verma A.K.	Gill, H.K., Jaypee University of Information Technology, Department of Computer Science and Engineering and Information Technology, Solan, India; Sehgal, V.K., Jaypee University of Information Technology, Department of Computer Science and Engineering and Information Technology, Solan, India; Verma, A.K., Thapar University, Department of Computer Science and Engineering, Patiala, India	2021 Asian Conference on Innovation in Technology, ASIANCON 2021	2021	
3854	Smart Secure Sensing for IoT-Based Agriculture: Blockchain Perspective	Vangala A., Das A.K., Kumar N., Alazab M.	Vangala, A., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology Hyderabad, Hyderabad, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology Hyderabad, Hyderabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia, Charles Darwin University, Australia; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT, Australia	IEEE Sensors Journal	2021	1530437X
3855	Impedance spectroscopy and magneto-dielectric analysis of La3+ substituted Co2Z hexaferrite	Singh A.P., Pandey O.P., Sharma P.	Singh, A.P., Magnetic Materials Laboratory, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, O.P., Magnetic Materials Laboratory, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, P., Magnetic Materials Laboratory, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Ceramics International	2021	2728842
3856	An Efficient Container Management Scheme for Resource-Constrained Intelligent IoT Devices	Chhikara P., Tekchandani R., Kumar N., Obaidat M.S.	Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, Sharjah, United Arab Emirates	IEEE Internet of Things Journal	2021	23274662
3857	Two-stage credit scoring model based on evolutionary feature selection and ensemble neural networks	Tripathi D., Edla D.R., Bablani A., Kupplli V.	Tripathi, D., Thapar Institute of Engineering and Technology Patiala, Punjab, India; Edla, D.R., National Institute of Technology Goa, Ponda, India; Bablani, A., National Institute of Technology Goa, Ponda, India; Kupplli, V., National Institute of Technology Goa, Ponda, India	Machine Learning Algorithms and Applications	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3858	Parameter estimation of solar photovoltaic and impact of environmental conditions on its performance	Chauhan A., Prakash S.	Chauhan, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Prakash, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Handbook Of Renewable Energy Technology & Systems	2021	
3859	Structural and decay properties of nuclei appearing in the α -decay chains of ${}^296\text{Fr}$, ${}^298\text{Fr}$, ${}^300\text{Fr}$, ${}^302\text{Fr}$, ${}^304\text{Fr}$ within the relativistic mean field formalism	Biswal N., Jain N., Kumar R., Pradeep A.S., Mishra S., Bhuyan M.	Biswal, N., Department of Physics, North Odisha University, Sri Ram Chandra Vihar 757003, India; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pradeep, A.S., Department of Physics, Rajiv Gandhi University of Knowledge Technologies, Andhra Pradesh, 516330, India; Mishra, S., Department of Physics, Parala Maharaja Engineering College, Berhampur, 761003, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	Modern Physics Letters A	2021	2177323
3860	ORR: Optimized Round Robin CPU Scheduling Algorithm	Gupta A.K., Mathur P., Travieso-Gonzalez C.M., Garg M., Goyal D.	Gupta, A.K., Amity School of Eng. and Tech., Amity University Rajasthan, Rajasthan, Jaipur, India; Mathur, P., Department of Mathematics Poornima, Institute of Eng. and Tech, Rajasthan, Jaipur, India; Travieso-Gonzalez, C.M., University of Las Palmas de Gran Canaria, Spain; Garg, M., Thapar Institute of Eng. and Tech Patiala, Panjab, India; Goyal, D., Department of Mathematics Poornima, Institute of Eng. and Tech, Rajasthan, Jaipur, India	ACM International Conference Proceeding Series	2021	
3861	Keyphrase Extraction using Markov Decision Process from Social Media Data	Garg M., Kumar M., Gupta A.K., Goyal D.	Garg, M., Thapar Institute of Eng. and Tech Patiala, Panjab, India; Kumar, M., University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Gupta, A.K., Amity School of Eng. and Tech., Amity University Rajasthan, Rajasthan, Jaipur, India; Goyal, D., Department of CSE Poornima, Institute of Eng. and Tech Jaipur, Rajasthan, India	ACM International Conference Proceeding Series	2021	
3862	Potential applications of thermal spray coating for I.C. engine tribology: A Review	Sonia, Walia R.S., Suri N.M., Chaudhary S., Tyagi A.	Sonia, Production and Industrial Engineering Department, PEC, Chandigarh, India; Walia, R.S., Production and Industrial Engineering Department, PEC, Chandigarh, India; Suri, N.M., Production and Industrial Engineering Department, PEC, Chandigarh, India; Chaudhary, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tyagi, A., Department of Mechanical Engineering, SGT University, Gurugram, India	Journal of Physics: Conference Series	2021	17426588
3863	Fusion-fission of compound nuclei formed in ${}^{12}\text{C}$ induced reactions on ${}^{232}\text{Th}$ target	Kaur M., Singh B., Sharma M.K.	Kaur, M., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Singh, B., Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	AIP Conference Proceedings	2021	0094243X
3864	Role of deformations in the decay of ${}^{219}\text{Ac}$ nuclei formed in ${}^{16}\text{O}+{}^{203}\text{Tl}$ reactions	Sandhu K., Ravish P., Sharma M.K.	Sandhu, K., P.G. Department of Physics, G.S.S.D.G. S Khalsa College, Punjab, Patiala, 147001, India; Ravish, P., P.G. Department of Physics, G.S.S.D.G. S Khalsa College, Punjab, Patiala, 147001, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	AIP Conference Proceedings	2021	0094243X
3865	Mechanical and physical properties of SrO-ZrO ₂ modified SODA lime borosilicate glasses	Chhina M.K., Mittal R., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mittal, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	AIP Conference Proceedings	2021	0094243X
3866	Probable spontaneous decay modes of ${}^{254}\text{Es}$ radioactive nucleus	Sharma N., Parmar V., Kaur A., Sharma M.K.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2021	0094243X
3867	Effect of sintering temperature on the crystal structure of SrMnO ₃	Kaur P., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	AIP Conference Proceedings	2021	0094243X
3868	Big data analytics for energy consumption prediction in smart grid using genetic algorithm and long short term memory	Kumari S., Kumar N., Rana P.S.	Kumari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Computing and Informatics	2021	13359150
3869	Evolutionary intelligent data warehousing approach to knowledge discovery systems: Dynamic cubing	Kaur H., Singh K., Kaur T.	Kaur, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Singh, K., University Computer Centre, Punjabi University, Patiala, India; Kaur, T., Centre for Diaspora Studies, Punjabi University, Patiala, India	Recent Advances in Computer Science and Communications	2021	26662558
3870	Estimation of Pore Critical Temperature of Nanoconfined Alkanes Using Vapour-Liquid Interfacial Free Energy	Naincy Attri, Sudhir K. Singh	Naincy Attri, Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147004, India; Sudhir K. Singh, Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147004, India	Russian Journal of Physical Chemistry B	2021	19907931

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3871	A novel approach to optimize the production cost of railway coaches of India using situational-based composite triangular and trapezoidal fuzzy LPP models	Kumar R., Dhiman G., Kumar N., Chandrawat R.K., Joshi V., Kaur A.	Kumar, R., Department of Mathematics, Lovely Professional University, Jalandhar-Delhi G.T. Road (NH-1), Punjab, Phagwara, 144411, India; Dhiman, G., Department of Computer Science, Government Bikram College of Commerce, Punjab, Patiala, 147001, India; Kumar, N., Department of Computer Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chandrawat, R.K., Department of Mathematics, Lovely Professional University, Jalandhar-Delhi G.T. Road (NH-1), Punjab, Phagwara, 144411, India; Joshi, V., Department of Mathematics, Lovely Professional University, Jalandhar-Delhi G.T. Road (NH-1), Punjab, Phagwara, 144411, India; Kaur, A., Department of Computer Science, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, India	Complex and Intelligent Systems	2021	21994536
3872	A technology acceptance model-based analytics for online mobile games using machine learning techniques	Chauhan S., Mittal M., Woźniak M., Gupta S., de Prado R.P.	Chauhan, S., Prestige Institute of Management, Gwalior, 474020, India; Mittal, M., Centre de Recherche en Informatique, Signal et Automatique de Lille, INRIA, Villeneuve-d'Ascq, 59655, France; Woźniak, M., Faculty of Applied Mathematics, Silesian University of Technology, Gliwice, 44100, Poland; Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; de Prado, R.P., Telecommunication Engineering Department, University of Jaén, Jaén, 23071, Spain	Symmetry	2021	20738994
3873	Fusion cross section of the superheavy Z=120 nuclei within the relativistic mean-field formalism	Rana S., Kumar R., Bhuyan M.	Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	Physical Review C	2021	24699985
3874	Development of Graphene Oxide Dispersed Natural Ester Based Insulating Oil for Transformers	Siddique Z.B., Basu S., Basak P.	Siddique, Z.B., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, India; Basu, S., School of Chemistry Bio-chemistry, Thapar Institute of Engineering and Technology, India; Basak, P., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, India	IEEE Transactions on Dielectrics and Electrical Insulation	2021	10709878
3875	Operating regimes of cavity solitons by virtue of a graphene flake saturable absorber	Nagi J.K., Jana S.	Nagi, J.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology,, Punjab, Patiala, 147004, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology,, Punjab, Patiala, 147004, India	Physical Review E	2021	24700045
3876	Complete genome sequence of pseudomonas stutzeri strain F2a, isolated from seleniferous soil	Inoue M., Hirose Y., Tobe R., Saito S., Aono R., Prakash N.T., Mihara H.	Inoue, M., College of Life Sciences, Ritsumeikan University, Shiga, Kusatsu, Japan, R-GIRO, Ritsumeikan University, Shiga, Kusatsu, Japan; Hirose, Y., Department of Applied Chemistry and Life Science, Toyohashi University of Technology, Aichi, Toyohashi, Japan; Tobe, R., College of Life Sciences, Ritsumeikan University, Shiga, Kusatsu, Japan; Saito, S., College of Life Sciences, Ritsumeikan University, Shiga, Kusatsu, Japan, R-GIRO, Ritsumeikan University, Shiga, Kusatsu, Japan; Aono, R., College of Life Sciences, Ritsumeikan University, Shiga, Kusatsu, Japan; Prakash, N.T., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mihara, H., College of Life Sciences, Ritsumeikan University, Shiga, Kusatsu, Japan	Microbiology Resource Announcements	2021	2576098X
3877	Privacy-Aware Autonomous Valet Parking: Towards Experience Driven Approach	Pokhrel S.R., Qu Y., Nepal S., Singh S.	Pokhrel, S.R., School of Information Technology, Deakin University, Geelong, VIC 3125, Australia; Qu, Y., School of Information Technology, Deakin University, Geelong, VIC 3125, Australia; Nepal, S., Data61, CSIRO, Marsfield, NSW 2122, Australia; Singh, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
3878	EnFlow: An Energy-Efficient Fast Flow Forwarding Scheme for Software-Defined Networks	Chaudhary R., Kumar N.	Chaudhary, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
3879	A review on numerical approach to achieve building energy efficiency for energy, economy and environment (3e) benefit	Raj B.P., Meena C.S., Agarwal N., Saini L., Khahro S.H., Subramaniam U., Ghosh A.	Raj, B.P., CSIR-Central Building Research Institute, Roorkee, 247667, India, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Meena, C.S., CSIR-Central Building Research Institute, Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Agarwal, N., CSIR-Central Building Research Institute, Roorkee, 247667, India, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Saini, L., CSIR-Central Building Research Institute, Roorkee, 247667, India, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khahro, S.H., Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, 11586, Saudi Arabia; Subramaniam, U., Department of Communications and Networks, Renewable Energy Lab, College of Engineering, Prince Sultan University, Riyadh, 11586, Saudi Arabia; Ghosh, A., College of Engineering, Mathematics and Physical Sciences, Renewable Energy, University of Exeter, Penryn, Cornwall, TR10 9FE, United Kingdom	Energies	2021	19961073
3880	SDN-Enabled Adaptive Broadcast Timer for Data Dissemination in Vehicular Ad Hoc Networks	Bhatia J., Dave J., Bhavsar M., Tanwar S., Kumar N.	Bhatia, J., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat Technological University, Gujarat, India; Dave, J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, India; Bhavsar, M., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Punjab, India; Tanwar, S., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat Technological University, Gujarat, India; Kumar, N., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat Technological University, Gujarat, India	IEEE Transactions on Vehicular Technology	2021	189545

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3881	Rotating behind Privacy: An Improved Lightweight Authentication Scheme for Cloud-based IoT Environment	Chaudhry S.A., Irshad A., Yahya K., Kumar N., Alazab M., Zikria Y.B.	Chaudhry, S.A., Department of Computer Engineering, Faculty of Engineering and Architecture, Istanbul Gelisim University, Istanbul, 34310, Turkey; Irshad, A., Department of Computer Science, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Yahya, K., Department of Mechatronics Engineering, Faculty of Engineering and Architecture, Istanbul Gelisim University, Istanbul, 34310, Turkey; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University., Taiwan, Department of Computing, UPES, Dehradun, India, King Abdul Aziz University, Jeddah, Saudi Arabia; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Darwin, NT 0810, Australia; Zikria, Y.B., Department of Information and Communication Engineering, Yeungnam University, Gyeongsan, 38541, South Korea	ACM Transactions on Internet Technology	2021	15335399
3882	A Flying Squirrel Search Optimization for MPPT under Partial Shaded Photovoltaic System	Singh N., Gupta K.K., Jain S.K., Dewangan N.K., Bhatnagar P.	Singh, N., Department of Electrical and Instrument Engineering, Thapar Institute of Engineering Technology, Patiala, 147004, India; Gupta, K.K., Department of Electrical and Instrument Engineering, Thapar Institute of Engineering Technology, Patiala, 147004, India; Jain, S.K., Department of Electrical and Instrument Engineering, Thapar Institute of Engineering Technology, Patiala, 147004, India; Dewangan, N.K., National Institute of Technology at Raipur, Raipur, 492010, India; Bhatnagar, P., IES College of Technology, Bhopal, 462044, India	IEEE Journal of Emerging and Selected Topics in Power Electronics	2021	21686777
3883	FTIR and TL studies of gamma rays irradiated natural quartz	Sandhu A.K., Pandey O.P.	Sandhu, A.K., Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2021	9574522
3884	Sextuple band rejection functionality from a compact Koch anti-snowflake fractal UWB-MIMO antenna integrated with split-ring resonators and slots	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	AEU - International Journal of Electronics and Communications	2021	14348411
3885	Giant magnetocapacitance in magnetoelectric BNT/NFO particulate composites	Singh P., Laishram R., Sharma P., Kolte J.	Singh, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Laishram, R., Solid State Physics Laboratory, Lucknow Road, Timarpur, Delhi 110054, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Materials Science: Materials in Electronics	2021	9574522
3886	Comment on 'Detail study of application of the relativistic mean-field effective NN forces for heavy-ion fusion within a dynamical model'	Bhuyan M., Kumar R., Patra S.K.	Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India	Journal of Physics G: Nuclear and Particle Physics	2021	9543899
3887	Thermo-elastic analysis of cracked functionally graded materials using XIGA	Bhardwaj G., Singh S.K., Patil R.U., Godara R.K., Khanna K.	Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Singh, S.K., Mechanical and Industrial Engineering Department, Indian Institute of Technology, Roorkee, Uttarakhand 247667, India; Patil, R.U., Mechanical Engineering Department, Indian Institute of Technology, Jammu, Jammu & Kashmir 181221, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Khanna, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Theoretical and Applied Fracture Mechanics	2021	1678442
3888	Quantum walk and its application domains: A systematic review	Kadian K., Garhwal S., Kumar A.	Kadian, K., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Garhwal, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, A., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Computer Science Review	2021	15740137
3889	Cartap hydrochloride induced stress response in Anabaena variabilis ARM 441	Kaur I., Goyal D.	Kaur, I., Department of Biotechnology, Thapar institute of engineering and technology Punjab, India; Goyal, D., Department of Biotechnology, Thapar institute of engineering and technology Punjab, India	Pesticide Biochemistry and Physiology	2021	483575
3890	Unveiling the inhibitory mechanism of peptidomimetic inhibitor against A β 42 aggregation and protofibril disaggregation by molecular dynamics	Kaur R., Kaur Saini R., Singh P., Goyal B.	Kaur, R., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India; Kaur Saini, R., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India; Singh, P., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala-147004, Punjab, India	Journal of Molecular Liquids	2021	1677322
3891	Transfer learning-based approach for detecting COVID-19 ailment in lung CT scan	Arora V., Ng E.Y.-K., Leekha R.S., Darshan M., Singh A.	Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ng, E.Y.-K., School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore; Leekha, R.S., IT-App Development/Maintenance, Concentrix, Gurugram, India; Darshan, M., Department of Mathematics, Kamala Nehru College, University of Delhi, Delhi, India; Singh, A., Wipro Limited, India	Computers in Biology and Medicine	2021	104825

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3892	Impact of thermally -aware environmental conditions on double gate carbon nanotube FET	Lakhanpal A., Sandha K.S.	Lakhanpal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sandha, K.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Microelectronics Journal	2021	262692
3893	Automated DDOS attack detection in software defined networking	Ahuja N., Singal G., Mukhopadhyay D., Kumar N.	Ahuja, N., Department of Computer Science Engineering, SEAS, Bennett University, Greater Noida, India; Singal, G., Department of Computer Science Engineering, SEAS, Bennett University, Greater Noida, India; Mukhopadhyay, D., Department of Computer Science Engineering, SEAS, Bennett University, Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, India and Department of Computer Science and Information Engineering, Asia University, Taiwan and King Abdul Aziz University, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	Journal of Network and Computer Applications	2021	10848045
3894	InfraRed image correlation for non-destructive testing and evaluation of delaminations in glass fibre reinforced polymer materials	Dua G., Mulaveesala R., Mishra P., kaur J.	Dua, G., Department of Electronics and Communications Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Mulaveesala, R., Centre for Sensors, Instrumentation and Cyber Physical System Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Mishra, P., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, India; kaur, J., InfraRed Imaging Laboratory (IRIL), Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, India	Infrared Physics and Technology	2021	13504495
3895	Studies on 2D-molybdenum diselenide (MoSe2) based electrode materials for supercapacitor and batteries: A critical analysis	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Energy Storage	2021	2352152X
3896	A review on diverse heterocyclic compounds as the privileged scaffolds in non-steroidal aromatase inhibitors	Rani S., Raheja K., Luxami V., Paul K.	Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Raheja, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Bioorganic Chemistry	2021	452068
3897	Editorial to special issue on novel insights on ocular biometrics	De Marsico M., Proença H., Bakshi S., Das A.	De Marsico, M., Sapienza Università di Roma, Italy; Proença, H., IT: Instituto de Telecomunicações, University of Beira Interior, Portugal; Bakshi, S., National Institute of Technology Rourkela, India; Das, A., Thapar University, India	Image and Vision Computing	2021	2628856
3898	An ultra-high birefringent and nonlinear decahedron photonic crystal fiber employing molybdenum disulphide (MoS2): A numerical analysis	Upadhyay A., Singh S., Sharma D., Taya S.A.	Upadhyay, A., Department of Applied Science & Humanities, Rajkiya Engineering College, Azamgarh, UP, India; Singh, S., Department of Electronics & Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, UP, India; Sharma, D., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Taya, S.A., Department of Physics, Islamic University of Gaza, Gaza Strip, Palestine	Materials Science and Engineering: B	2021	9215107
3899	Ternary g-C3N4/Ag/BiVO4 nanocomposite: Fabrication and implementation to remove organic pollutants	Nagar A., Basu S.	Nagar, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Technology and Innovation	2021	23521864
3900	Potential Use of Sillimanite Sand in Sustainable Geopolymer Concrete Production	Jain D., Sharma R., Bansal P.P.	Jain, D., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 144001, India; Sharma, R., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 144001, India; Bansal, P.P., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 144001, India	Journal of Materials in Civil Engineering	2021	8991561
3901	Dielectric surface roughness scattering induced crosstalk performance of coupled MCB interconnects	Sharma M., Rai M.K., Khanna R.	Sharma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Microelectronics Journal	2021	262692
3902	Carbon dioxide sorptive cooling in substitute model refrigeration system for replacing halogenated refrigerants	Roy Z., Barman S., Halder G.	Roy, Z., Department of Chemical Engg, National Institute of Technology Durgapur, Durgapur, 713209, India; Barman, S., Department of Chemical Engg, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Halder, G., Department of Chemical Engg, National Institute of Technology Durgapur, Durgapur, 713209, India	Environmental Technology and Innovation	2021	23521864
3903	Aging of bolted joints prepared from electron-beam-cured multiwalled carbon nanotube-based nanocomposites with variable torques	Kumar M., Saini J.S., Bhunia H., Chowdhury S.R.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chowdhury, S.R., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra, India	Polymer Composites	2021	2728397

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3904	Blockchain and 5G integrated softwarezined UAV network management: Architecture, solutions, and challenges	Gupta R., Tanwar S., Kumar N.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Physical Communication	2021	18744907
3905	Adsorption of doxycycline hydrochloride onto powdered activated carbon synthesized from pumpkin seed shell by microwave-assisted pyrolysis	Kaur G., Singh N., Rajor A.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Technology and Innovation	2021	23521864
3906	Liver inflammation at the time of spinal cord injury enhances intraspinal pathology, liver injury, metabolic syndrome and locomotor deficits	Goodus M.T., Carson K.E., Sauerbeck A.D., Dey P., Alfredo A.N., Popovich P.G., Bruno R.S., McTigue D.M.	Goodus, M.T., The Belford Center for Spinal Cord Injury, Ohio State University, Columbus, OH, United States, Department of Neuroscience, College of Medicine, Ohio State University, Columbus, OH, United States; Carson, K.E., The Belford Center for Spinal Cord Injury, Ohio State University, Columbus, OH, United States, Department of Neuroscience, College of Medicine, Ohio State University, Columbus, OH, United States; Sauerbeck, A.D., The Belford Center for Spinal Cord Injury, Ohio State University, Columbus, OH, United States, Department of Neurology, Washington University in St. Louis MO, United States; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Alfredo, A.N., The Belford Center for Spinal Cord Injury, Ohio State University, Columbus, OH, United States, Department of Neuroscience, College of Medicine, Ohio State University, Columbus, OH, United States; Popovich, P.G., The Belford Center for Spinal Cord Injury, Ohio State University, Columbus, OH, United States, Department of Neuroscience, College of Medicine, Ohio State University, Columbus, OH, United States; Bruno, R.S., Department of Human Sciences, College of Education and Human Ecology, The Ohio State University, Columbus, OH, United States; McTigue, D.M., The Belford Center for Spinal Cord Injury, Ohio State University, Columbus, OH, United States, Department of Neuroscience, College of Medicine, Ohio State University, Columbus, OH, United States	Experimental Neurology	2021	144886
3907	Sine trigonometric operational laws and its based Pythagorean fuzzy aggregation operators for group decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Artificial Intelligence Review	2021	2692821
3908	A review on CaTiO ₃ photocatalyst: Activity enhancement methods and photocatalytic applications	Passi M., Pal B.	Passi, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Powder Technology	2021	325910
3909	Samarium doped calcium silicate derived from agro-food wastes and their structural, optical and luminescent properties	Kaur Chhina M., Singh K.	Kaur Chhina, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Ceramics International	2021	2728842
3910	State-of-the-Art Survey of Quantum Cryptography	Kumar A., Garhwal S.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Archives of Computational Methods in Engineering	2021	11343060
3911	Optimal parameter estimation of PEM fuel cell using slime mould algorithm	Gupta J., Nijhawan P., Ganguli S.	Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Energy Research	2021	0363907X
3912	Effective removal of methylene blue using nanoscale manganese oxide rods and spheres derived from different precursors of manganese	Ahmed S., Ahmad Z., Kumar A., Rafiq M., Vashistha V.K., Ashiq M.N., Kumar A.	Ahmed, S., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, China, Department of Chemistry, University of Engineering and Technology, Lahore, 54890, Pakistan; Ahmad, Z., Department of Chemistry, University of Engineering and Technology, Lahore, 54890, Pakistan; Kumar, A., Department of Chemistry, GLA University, Mathura, UP 281406, India; Rafiq, M., School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, 510640, China; Vashistha, V.K., Department of Chemistry, GLA University, Mathura, UP 281406, India; Ashiq, M.N., Division of Physical Chemistry, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, 60800, Pakistan; Kumar, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Physics and Chemistry of Solids	2021	223697

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3913	Oxide-derived Cu-Zn nanoparticles supported on N-doped graphene for electrochemical reduction of CO ₂ to ethanol	Dongare S., Singh N., Bhunia H.	Dongare, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Applied Surface Science	2021	1694332
3914	UGT1A1 Gene Polymorphisms in Patients with Small Cell Lung Cancer Treated with Irinotecan-Platinum Doublet Chemotherapy and Their Association with Gastrointestinal Toxicity and Overall Survival	Bandyopadhyay A., Sharma S., Behera D., Singh N.	Bandyopadhyay, A., Department of Pulmonary Medicine, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar University, Patiala, Punjab, India; Behera, D., Department of Pulmonary Medicine, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India; Singh, N., Department of Pulmonary Medicine, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India	Oncologist	2021	10837159
3915	Scaling up face masks detection with YOLO on a novel dataset	Kumar A., Kalia A., Verma K., Sharma A., Kaushal M.	Kumar, A., Department of Computer Science, Himachal Pradesh University, Shimla, India; Kalia, A., Department of Computer Science, Himachal Pradesh University, Shimla, India; Verma, K., CSE, UIET, Panjab University, Chandigarh, India; Sharma, A., CSE, UIET, Panjab University, Chandigarh, India; Kaushal, M., CSED, Thapar Institute of Engineering & Technology, Derabassi Campus, Patiala, India	Optik	2021	304026
3916	Cross-Modality Breast Image Translation with Improved Resolution Using Generative Adversarial Networks	Sharma A., Jindal N.	Sharma, A., Thapar Institute of Engineering and Technology, ECED, Patiala, Punjab, India; Jindal, N., Faculty, Thapar Institute of Engineering and Technology, ECED, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
3917	Design of a Guitar Shaped UWB Antenna with Wide Band Notched Characteristics for Wireless Applications	Negi D., Khanna R., Kaur J.	Negi, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2021	9296212
3918	An Adaptive Weighted Min-Mid-Max Value Based Filter for Eliminating High Density Impulsive Noise	Sharma N., Sohi P.J.S., Garg B.	Sharma, N., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sohi, P.J.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
3919	In-situ dual effect of Ag-Fe-TiO ₂ composite for the photocatalytic degradation of Ciprofloxacin in aqueous solution	Kaur N., Verma A., Thakur I., Basu S.	Kaur, N., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemosphere	2021	456535
3920	EPRT: An Efficient Privacy-Preserving Medical Service Recommendation and Trust Discovery Scheme for eHealth System	Peng C., He D., Chen J., Kumar N., Khan M.K.	Peng, C., School of Mathematics and Statistics, Wuhan University, Wuhan, 430072, China, Guangdong Key Laboratory of Data Security and Privacy Protection, Jinan University, Guangdong, 510632, China; He, D., Guangdong Key Laboratory of Data Security and Privacy Protection, Jinan University, Guangdong, 510632, China, Department of Computer Science and Engineering, Thapar University, Patiala, 147001, India; Chen, J., School of Mathematics and Statistics, Wuhan University, Wuhan, 430072, China; Kumar, N., Department of Computer Science and Information Engineering, Asia University, Taizhong, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, King Abdul Aziz University, Jiddah, 21441, Saudi Arabia; Khan, M.K., Center of Excellence in Information Assurance (CoEIA), King Saud University, Riyadh, 11451, Saudi Arabia	ACM Transactions on Internet Technology	2021	15335399
3921	Fracture monitoring of steel and GFRP reinforced concrete beams using acoustic emission and digital image correlation techniques	Sharma G., Sharma S., Sharma S.K.	Sharma, G., Department of Civil Engineering, Thapar University, Patiala, India; Sharma, S., Department of Civil Engineering, Thapar University, Patiala, India; Sharma, S.K., Department of Mechanical Department, Thapar University, Patiala, India	Structural Concrete	2021	14644177
3922	Road network extraction using multi-layered filtering and tensor voting from aerial images	Kumar Soni P., Rajpal N., Mehta R.	Kumar Soni, P., University School of Information & Communication Technology, Guru Gobind Singh Indraprastha University Dwarka, New Delhi, India; Rajpal, N., University School of Information & Communication Technology, Guru Gobind Singh Indraprastha University Dwarka, New Delhi, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Egyptian Journal of Remote Sensing and Space Science	2021	11109823
3923	Chaotic sequence and opposition learning guided approach for data clustering	Singh T., Saxena N.	Singh, T., Department of Computer Science and Engineering, Siksha O Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India; Saxena, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Pattern Analysis and Applications	2021	14337541

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3924	Analysis of finishing performance in rotating magnetorheological honing process with the effect of particles motion	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021	9544089
3925	Manufacturing of stable hydrophobic surface on rare-earth oxides aluminium hybrid composite	Sharma V.K., Kumar V., Joshi R.S.	Sharma, V.K., Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Joshi, R.S., Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021	9544089
3926	CTRL –CapTuRedLight: a novel feature descriptor for online Assamese numeral recognition	Ghosh S., Chatterjee A., Sen S., Kumar N., Sarkar R.	Ghosh, S., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Chatterjee, A., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Sen, S., Department of Computer Science and Engineering, Future Institute of Engineering and Management, Kolkata, India; Kumar, N., Department of CSED, Thapar Institute of Engineering and Technology, Patiala, India, School of Computing, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan; Sarkar, R., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India	Multimedia Tools and Applications	2021	13807501
3927	Chemical properties of pore solution of hardened cement pastes with mineral additions	Cherif R., Hamami A.E.A., Ait-Mokhtar A., Siddique R.	Cherif, R., University of la Rochelle - CNRS, LaSIE UMR 7356, La Rochelle, France; Hamami, A.E.A., University of la Rochelle - CNRS, LaSIE UMR 7356, La Rochelle, France; Ait-Mokhtar, A., University of la Rochelle - CNRS, LaSIE UMR 7356, La Rochelle, France; Siddique, R., Thapar University, Punjab, India	Advances in Cement Research	2021	9517197
3928	Experimental investigation of heat transfer and exergy loss in heat exchanger with air bubble injection technique	Sokhal G.S., Dhindsa G.S., Sokhal K.S., Ghazvini M., Sharifpur M., Sadeghzadeh M.	Sokhal, G.S., Department of Mechanical Engineering, Chandigarh University, Gharuan, Mohali, Punjab, India; Dhindsa, G.S., Department of Mechanical Engineering, Chandigarh University, Gharuan, Mohali, Punjab, India; Sokhal, K.S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ghazvini, M., Department of Ocean and Mechanical Engineering, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, United States; Sharifpur, M., Department of Mechanical and Aeronautical Engineering, University of Pretoria, Pretoria, 0002, South Africa; Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Sadeghzadeh, M., Department of Renewable Energy and Environmental Engineering, University of Tehran, Tehran, Iran	Journal of Thermal Analysis and Calorimetry	2021	13886150
3929	Image watermarking using soft computing techniques: A comprehensive survey	Singh O.P., Singh A.K., Srivastava G., Kumar N.	Singh, O.P., Department of Computer Science and Engineering, National Institute of Technology Patna, Patna, India; Singh, A.K., Department of Computer Science and Engineering, National Institute of Technology Patna, Patna, India; Srivastava, G., Department of Math and Computer Science, Brandon University, and also associated with the Research Centre for Interneural Computing, China Medical University, Taichung, Taiwan, Brandon, MB, Canada; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), and also associated with the Department of Computer Science and Information Engineering Asia University Taiwan, Punjab, India	Multimedia Tools and Applications	2021	13807501
3930	Interfacial stiffness of nematic-smectic B interface in Gay-Berne liquid crystals using capillary wave theory	Kaur J., Deb D.	Kaur, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Deb, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	Journal of Chemical Physics	2021	219606
3931	Recent advances in heteroatom-doped graphene quantum dots for sensing applications	Sohal N., Maity B., Basu S.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	RSC Advances	2021	20462069
3932	Sliding wear behaviour of CP titanium laminates produced by large strain extrusion machining	Kumar P., Joshi R.S., Singla R.K.	Kumar, P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Joshi, R.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wear	2021	431648
3933	Influence of natural beach mineral corundum on the wear characteristics of LM30 aluminium alloy composites	Mann V.S., Pandey O.P.	Mann, V.S., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering & Technology (TIET), Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering & Technology (TIET), Patiala, Punjab 147004, India	Wear	2021	431648

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3934	Efficient Fruit Grading System Using Spectrophotometry and Machine Learning Approaches	Chopra H., Singh H., Bamrah M.S., Mahbubani F., Verma A., Hooda N., Rana P.S., Singla R.K., Singh A.K.	Chopra, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bamrah, M.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mahbubani, F., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hooda, N., School of Computing, Indian Institute of Information Technology (IIIT) Una, Una, 177209, India; Rana, P.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Sensors Journal	2021	1530437X
3935	Mixed alkaline earth modifiers effect on thermal, optical and structural properties of SrO-BaO-SiO ₂ -B ₂ O ₃ -ZrO ₂ glass sealants	Walia T., Singh K.	Walia, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Non-Crystalline Solids	2021	223093
3936	Neural network prediction of slurry erosion of heavy-duty pump impeller/casing materials 18Cr-8Ni, 16Cr-10Ni-2Mo, super duplex 24Cr-6Ni-3Mo-N, and grey cast iron	Singh J., Singh S.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, S., Department of Computer Science and Engineering, Bennett University, Greater Noida, Uttar Pradesh 201310, India	Wear	2021	431648
3937	Theoretical analysis of a novel in-situ magnetorheological honing process for finishing the internal surface of tubular workpieces	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wear	2021	431648
3938	Theoretical and experimental investigation on surface roughness of straight bevel gears using a novel magnetorheological finishing process	Arora K., Singh A.K.	Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wear	2021	431648
3939	Stamantic clustering: Combining statistical and semantic features for clustering of large text datasets	Mehta V., Bawa S., Singh J.	Mehta, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Singh, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Expert Systems with Applications	2021	9574174
3940	Blockchain-Enabled Certificate-Based Authentication for Vehicle Accident Detection and Notification in Intelligent Transportation Systems	Vangala A., Bera B., Saha S., Das A.K., Kumar N., Park Y.	Vangala, A., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Bera, B., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Saha, S., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Das, A.K., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan; Park, Y., School of Electronics Engineering, Kyungpook National University, Daegu, 41566, South Korea	IEEE Sensors Journal	2021	1530437X
3941	Information Detection in Brain Using Wavelet Features and K-Nearest Neighbor	Saini N., Bhardwaj S., Agarwal R., Chandra S.	Saini, N., Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, S., Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India; Chandra, S., Institute of Nuclear Medicine and Allied Sciences, Drdo, Delhi, India	Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021	2021	
3942	A hybrid deep learning model based on CNN-BiLSTM for rumor detection	Rani N., Das P., Bhardwaj A.K.	Rani, N., Chitkara University, School of Engineering and Technology, Himachal Pradesh, India; Das, P., Chitkara University, School of Engineering and Technology, Himachal Pradesh, India; Bhardwaj, A.K., L M Thapar School of Management, Thapar Institute of Engineering Technology, Derabassi, 140507, India	Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021	2021	
3943	Assessment of corrosion inhibition efficiency of generic compounds having different functional groups in carbonated pore solution with chlorides and migration ability in concrete	Tiwari A., Goyal S., Luxami V., Chakraborty M.K., Prabhakar G.	Tiwari, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Chakraborty, M.K., Resources & Documentation Division, Atomic Energy Regulatory Board, Mumbai, India; Prabhakar, G., Nuclear Power Corporation of India Limited, Mumbai, India	Construction and Building Materials	2021	9500618

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3944	Cubic lattice structures of Ti6Al4V under compressive loading: Towards assessing the performance for hard tissue implants alternative	Dhiman S., Singh M., Sidhu S.S., Bahraminasab M., Pimenov D.Y., Mikolajczyk T.	Dhiman, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Roopnagar140001, India, Surface Engineering for Advanced Materials, Swinburne University of Technology, Hawthorn, VIC 3122, Australia; Sidhu, S.S., Department of Mechanical Engineering, Sardar Beant Singh State University, Gurdaspur14521, India; Bahraminasab, M., Nervous System Stem Cells Research Center, Semnan University of Medical Sciences, Semnan, 3514799422, Iran, Department of Tissue Engineering and Applied Cell Sciences, School of Medicine, Semnan University of Medical Sciences, Semnan, 3514799422, Iran; Pimenov, D.Y., Department of Automated Mechanical Engineering, South Ural State University, Lenin Prosp. 76, Chelyabinsk, 454080, Russian Federation; Mikolajczyk, T., Department of Production Engineering, UTP University of Science and Technology, Al. prof. S. Kaliskiego 7, Bydgoszcz, 85-796, Poland	Materials	2021	19961944
3945	Identification of Wild Animals from Pugmarks- A Review	Saini S., Muskan, Shukla S., Singh J., Rana P.S.	Saini, S., Department of Forensic Science, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Muskan, Department of Forensic Science, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Shukla, S., Department of Forensic Science, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Singh, J., Department of Forensic Science, School of Allied Health Sciences, Sharda University, U.P, Greater Noida, 201310, India; Rana, P.S., Department Computer Science and Engineering, Thapar Institute of Engineering & Tech, Punjab, Patiala, 147004, India	Journal of Punjab Academy of Forensic Medicine and Toxicology	2021	9725687
3946	Cointegration of Indian stock market with global stock markets: An empirical analysis applying vector error correction model	Sachdeva T., Bhullar P.S., Gupta P.K.	Sachdeva, T., Vivekananda Institute of Professional Studies, Pitam Pura, Delhi, India; Bhullar, P.S., University Business School MRSPTU, Punjab, Bathinda, India; Gupta, P.K., LM Thapar School of Management, Derabassi Campus, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	SCMS Journal of Indian Management	2021	9733167
3947	Hybrid Machine Learning Models for Predicting Types of Human T-cell Lymphotropic Virus	Sharma G., Rana P.S., Bawa S.	Sharma, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	IEEE/ACM Transactions on Computational Biology and Bioinformatics	2021	15455963
3948	Communication-Efficient Offloading for Mobile-Edge Computing in 5G Heterogeneous Networks	Zhou P., Shen K., Kumar N., Zhang Y., Hassan M.M., Hwang K.	Zhou, P., School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan, 430074, China; Shen, K., School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan, 430074, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan; Zhang, Y., School of Information and Communication Engineering, University of Electronic Science and Technology of China, Chengdu, 611731, China; Hassan, M.M., College of Computer and Information Sciences and the Research Chair of Smart Technologies, King Saud University, Riyadh, 11543, Saudi Arabia; Hwang, K., Shenzhen Institute of Artificial Intelligence and Robotics for Society, Chinese University of Hong Kong Shenzhen, Shenzhen, 518172, China	IEEE Internet of Things Journal	2021	23274662
3949	Single-crystalline 2D BiOCl nanorods decorated with 2D MoS ₂ nanosheets for visible light-driven photocatalytic detoxification of organic and inorganic pollutants	Monga D., Basu S.	Monga, D., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	FlatChem	2021	24522627
3950	Study on propagation characteristics of SH-wave in an imperfectly bonded functionally graded structure with viscoelastic stratum and fibre-reinforced substrate	Singh A.K., Kaur T., Saha S., Kumar S., Chattopadhyay A.	Singh, A.K., Department of Mathematics and Computing, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India; Kaur, T., Department of Mathematics, Guru Nanak College, Budhlada (Mansa), Punjab, India; Saha, S., Department of Mathematics and Computing, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India; Kumar, S., School of Mathematics, Thapar University, Patiala, Punjab 147004, India; Chattopadhyay, A., Department of Mathematics and Computing, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand 826004, India	Arabian Journal of Geosciences	2021	18667511
3951	Guest Editorial Introduction to the Special Issue on Deep Learning Models for Safe and Secure Intelligent Transportation Systems	Jolfaei A., Kumar N., Chen M., Kant K.	Jolfaei, A., Department of Computing, Macquarie University, Sydney, NSW, Australia; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chen, M., School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan, China; Kant, K., Department of Computer and Information Sciences, Temple University, Philadelphia, PA, United States	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
3952	Robust duality for generalized convex nonsmooth vector programs with uncertain data in constraints	Ahmad I., Kaur A., Sharma M.K.	Ahmad, I., Department of Mathematics and Statistics, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia; Kaur, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	RAIRO - Operations Research	2021	28047303

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3953	Application of machine learning to include honking effect in vehicular traffic noise prediction	Singh D., Francavilla A.B., Mancini S., Guarnaccia C.	Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Francavilla, A.B., Department of Civil Engineering, University of Salerno, Fisciano, 84084, Italy; Mancini, S., Department of Information Engineering, Electric Engineering and Applied Mathematics, University of Salerno, Fisciano, 84084, Italy; Guarnaccia, C., Department of Civil Engineering, University of Salerno, Fisciano, 84084, Italy	Applied Sciences (Switzerland)	2021	20763417
3954	Association of NQO1Pro187Ser polymorphism with clinical outcomes and survival of lung cancer patients treated with platinum chemotherapy	Walia H.K., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Personalized Medicine	2021	17410541
3955	Development and parametric optimisation of pure magnesium matrix surface composite by friction stir processing	Singh B., Singh J., Joshi R.S.	Singh, B., Baba Banda Singh Bahadur Engineering College, India; Singh, J., Beant College of Engineering and Technology, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Surface Engineering and Interdisciplinary Materials Science	2021	21667225
3956	IoT and deep learning-inspired multi-model framework for monitoring Active Fire Locations in Agricultural Activities	Sharma A., Kumar H., Mittal K., Kausal S., Kaushal M., Gupta D., Narula A.	Sharma, A., Assistant Professor, UIET, Panjab University Chandigarh, India; Kumar, H., Professor, UIET, Panjab University Chandigarh, India; Mittal, K., UIET, Panjab University Chandigarh, India; Kausal, S., Professor, UIET, Panjab University Chandigarh, India; Kaushal, M., Assistant Professor, CSED, Thapar institute of Engineering and Technology, Derabassi Campus, Panjab, India; Gupta, D., UIET, Panjab University Chandigarh, India; Narula, A., UIET, Panjab University Chandigarh, India	Computers and Electrical Engineering	2021	457906
3957	A novel technique of harvesting cortical bone grafts during orthopaedic surgeries	Agarwal R., Gupta V., Jain V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2021	16785878
3958	Commentary on "D-Intuitionistic Hesitant Fuzzy Sets and Their Application in Multiple Attribute Decision Making"	Mishra A., Kumar A., Appadoo S.S.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed To Be University), Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed To Be University), Patiala, Punjab, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, MB, Canada	Cognitive Computation	2021	18669956
3959	Bipolar trapezoidal neutrosophic sets and their Dombi operators with applications in multicriteria decision making	Kamacı H., Garg H., Petchimuthu S.	Kamacı, H., Department of Mathematics, Faculty of Science and Arts, Yozgat Bozok University, Yozgat, 66100, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India; Petchimuthu, S., Department of Mathematics, University College of Engineering, Nagercoil, Tamilnadu 629004, India	Soft Computing	2021	14327643
3960	An Intelligent Terminal Based Privacy-Preserving Multi-Modal Implicit Authentication Protocol for Internet of Connected Vehicles	Wei F., Zeadally S., Vijayakumar P., Kumar N., He D.	Wei, F., Henan Key Laboratory of Network Cryptography Technology, Zhengzhou, 450001, China, China State Key Laboratory of Mathematical Engineering and Advanced Computing, Zhengzhou, 450001, China; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY 40506, United States; Vijayakumar, P., College of Communication and Information, University of Kentucky, Lexington, KY 40506, United States; Kumar, N., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, 604001, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Computer Science and Mathematics, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
3961	Numerical implementation of drop spin and tilt method for five-axis tool positioning for tensor product surfaces	Sharma S.K., Duvedi R.K., Bedi S., Mann S.	Sharma, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Duvedi, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bedi, S., University of Waterloo, Waterloo, ON, Canada; Mann, S., University of Waterloo, Waterloo, ON, Canada	International Journal of Advanced Manufacturing Technology	2021	2683768
3962	Some Information Measures Based on Centroid, Orthocenter, Circumcenter and Incenter Points of Transformed Triangular Fuzzy Numbers and their Applications	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	Cognitive Computation	2021	18669956

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3963	Triple band-stop characteristics from an aperture coupled modified Pythagorean tree fractal-based UWB-MIMO antenna integrated with complementary hexagonal spiral defected ground structure	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	AEU - International Journal of Electronics and Communications	2021	14348411
3964	Torque ripple minimization with modified comparator in DTC based three-level five-phase inverter fed five-phase induction motor	Tatte Y.	Tatte, Y., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	IET Power Electronics	2021	17554535
3965	Effect of processing parameters on structural and optical properties of CeO2 nanoparticles for the removal of crystal violet dye	Sharma P.K., Pandey O.P.	Sharma, P.K., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Sol-Gel Science and Technology	2021	9280707
3966	An Energy-Efficient Modified Metaheuristic Inspired Algorithm for Disaster Management System Using WSNs	Singh S., Nandan A.S., Malik A., Kumar N., Barnawi A.	Singh, S., Department of Computer Science and Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Jalandhar, India; Nandan, A.S., Department of Computer Science and Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Jalandhar, India; Malik, A., Department of Computer Science and Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Jalandhar, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Barnawi, A., Faculty of Computing and It, King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Sensors Journal	2021	1530437X
3967	Chemically treated plastic aggregates for eco-friendly cement mortars	Kaur G., Pavia S.	Kaur, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Pavia, S., Department of Civil, Structural and Environmental Engineering, Trinity College Dublin, Dublin-2, Ireland	Journal of Material Cycles and Waste Management	2021	14384957
3968	Application-specific discriminant analysis of cardiac anomalies using shift-invariant wavelet transform	Singh R., Rajpal N., Mehta R.	Singh, R., Guru Gobind Singh Indraprastha University, India; Rajpal, N., Guru Gobind Singh Indraprastha University, India; Mehta, R., Thapar Institute of Engineering and Technology, India	International Journal of E-Health and Medical Communications	2021	1947315X
3969	A high payload reversible data hiding algorithm for homomorphic encrypted absolute moment block truncation coding compressed images	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
3970	A novel multilayer decision based iterative filter for removal of salt and pepper noise	Sharma N., Sohi P.J.S., Garg B., Arya K.V.	Sharma, N., Thapar Institute of Engineering and Technology, Patiala, India; Sohi, P.J.S., Thapar Institute of Engineering and Technology, Patiala, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Arya, K.V., ABV Indian Institute of Information Technology and Management Gwalior, Gwalior, India	Multimedia Tools and Applications	2021	13807501
3971	An improved separable reversible patient data hiding algorithm for E-healthcare	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
3972	Superior adsorptive removal of eco-toxic drug diclofenac sodium by Zn-Al LDH-xBi2O3 layer double hydroxide composites	Kumari P., Pal B., Das R.K.	Kumari, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Das, R.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Applied Clay Science	2021	1691317
3973	Investigations on MWCNT Embedded Carbon/Epoxy Composite Joints Subjected to Hygrothermal Aging under Bolt Preloads	Kumar M., Saini J.S., Bhunia H.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Fibers and Polymers	2021	12299197
3974	A new emperor penguin optimisation-based approach for solar photovoltaic parameter estimation	Chauhan A., Prakash S.	Chauhan, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology (Deemed-to-be University), Patiala, Punjab, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology (Deemed-to-be University), Patiala, Punjab, India	International Transactions on Electrical Energy Systems	2021	20507038

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3975	Blockchain-based royalty contract transactions scheme for Industry 4.0 supply-chain management	Mehta D., Tanwar S., Bodkhe U., Shukla A., Kumar N.	Mehta, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Bodkhe, U., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Shukla, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	Information Processing and Management	2021	3064573
3976	Deep neural network hyper-parameter tuning through twofold genetic approach	Kumar P., Batra S., Raman B.	Kumar, P., Indian Institute of Technology, Roorkee, Uttarakhand 247667, India; Batra, S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Raman, B., Indian Institute of Technology, Roorkee, Uttarakhand 247667, India	Soft Computing	2021	14327643
3977	Decay dynamics of $9\text{Be} + 89\text{Y}$ reaction in view of complete and incomplete fusion mechanisms	Grover N., Parmar V., Patra S.K., Sharma M.K.	Grover, N., Department of Physics and Astronomical Sciences, Central University of Jammu, J&K, Jammu, 181143, India; Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2021	3759474
3978	Indoor air quality improvement in COVID-19 pandemic: Review	Agarwal N., Meena C.S., Raj B.P., Saini L., Kumar A., Gopalakrishnan N., Kumar A., Balam N.B., Alam T., Kapoor N.R., Aggarwal V.	Agarwal, N., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Meena, C.S., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Raj, B.P., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Saini, L., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, A., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Gopalakrishnan, N., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Kumar, A., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Balam, N.B., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Alam, T., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Kapoor, N.R., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Aggarwal, V., CSIR-Central Building Research Institute (CBRI), Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	Sustainable Cities and Society	2021	22106707
3979	Colorimetric biosensing of organophosphate pesticides using enzymatic nanoreactor built on zeolitic imidazolate-8	Kukkar P., Kukkar D., Younis S.A., Singh G., Singh P., Basu S., Kim K.-H.	Kukkar, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India, Department of Chemistry, Mata Gujri College, Fatehgarh Sahib-140406, Punjab, India; Kukkar, D., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India, Department of Civil & Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea; Younis, S.A., Department of Civil & Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea, Analysis and Evaluation Department, Egyptian Petroleum Research Institute, Nasr City, Cairo 11727, Egypt; Singh, G., Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India; Singh, P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib-140406, Punjab, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kim, K.-H., Department of Civil & Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea	Microchemical Journal	2021	0026265X
3980	Energy-Aware Marine Predators Algorithm for Task Scheduling in IoT-Based Fog Computing Applications	Abdel-Basset M., Mohamed R., Elhoseny M., Bashir A.K., Jolfaei A., Kumar N.	Abdel-Basset, M., Department of Computer Science, Faculty of Computers and Informatics, Zagazig University, Zagazig, Egypt; Mohamed, R., Department of Computer Science, Faculty of Computers and Informatics, Zagazig University, Zagazig, Egypt; Elhoseny, M., Faculty of Computers and Information, Mansoura University, Mansoura, Egypt; Bashir, A.K., Manchester Metropolitan University, Manchester, United Kingdom; Jolfaei, A., Macquarie University, Sydney, NSW, Australia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India	IEEE Transactions on Industrial Informatics	2021	15513203

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3981	Modulated BiOCl nanoplates with porous g-C ₃ N ₄ nanosheets for photocatalytic degradation of color/colorless pollutants in natural sunlight	Kundu A., Sharma S., Basu S.	Kundu, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Physics and Chemistry of Solids	2021	223697
3982	A new hardware Trojan detection technique using deep convolutional neural network	Sharma R., Rathor V.S., Sharma G.K., Pattanaik M.	Sharma, R., ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India; Rathor, V.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, G.K., ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India; Pattanaik, M., ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India	Integration	2021	1679260
3983	Mitigating the impact of adversarial attacks in very deep networks	Hassanin M., Radwan I., Moustafa N., Tahtali M., Kumar N.	Hassanin, M., School of Engineering and Information Technology, University of New South Wales @ ADFA, CanberraACT 2600, Australia; Radwan, I., Faculty of Science and Technology, University of Canberra, Australia; Moustafa, N., School of Engineering and Information Technology, University of New South Wales @ ADFA, CanberraACT 2600, Australia; Tahtali, M., School of Engineering and Information Technology, University of New South Wales @ ADFA, CanberraACT 2600, Australia; Kumar, N., Thapar Institute of Engineering and Technology, Patiala (Punjab), India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun (Uttarakhand), India, Department of Computer Science and Information Engineering, Asia University, (Taichung City), Taiwan	Applied Soft Computing	2021	15684946
3984	Effect of gamma irradiation on physical, optical, spectroscopic and structural properties of Er ³⁺ -doped vitreous zinc borotellurite	Kaur S., Pandey O.P., Jayasankar C.K., Chopra N.	Kaur, S., School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, India, Department of Physics, Sri Venkateswara University, Tirupati, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, India; Jayasankar, C.K., Department of Physics, Kanya Maha Vidyalyaya, Jalandhar, Punjab, India; Chopra, N., Department of Physics, Sri Venkateswara University, Tirupati, India	Journal of Luminescence	2021	222313
3985	CN- q-ROFS: Connection number-based q-rung orthopair fuzzy set and their application to decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, India	International Journal of Intelligent Systems	2021	8848173
3986	Do Firm Growth Models Work in Service Industries in Developing Economies? An Investigation of the Relationship Between Firms' Growth, Size and Age	Villari B.C., Subramanian B., Kumar P., Hota P.K.	Villari, B.C., Department of Information Technology and Systems, Indian Institute of Management KozhikodeKerala, India, Architect I, AI/ML Data Science, Products Platforms, UST, India; Subramanian, B., Department of Organization Behavior and Human Resource Management, Indian Institute of Management VisakhapatnamAndhra Pradesh, India, Department of Organization Behaviour and Human Resource Management, Thiagarajar School of Management, Madurai, Tamil Nadu, India; Kumar, P., Department of Information Technology and Systems, Indian Institute of Management KozhikodeKerala, India, L. M. Thapar School of Management, TIET, Mohali, Dera Bassi, India; Hota, P.K., L. M. Thapar School of Management, TIET, Mohali, Dera Bassi, India, Research School of Management, Australian National University, Canberra, Australia	Journal of Interdisciplinary Economics	2021	2601079
3987	A q component-based adaptive protection coordination optimisation using overcurrent relays in coordination with fuses for hybrid microgrid	Singh M.	Singh, M., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IET Generation, Transmission and Distribution	2021	17518687
3988	Parameter estimation of proton exchange membrane fuel cell using a novel meta-heuristic algorithm	Singla M.K., Nijhawan P., Oberoi A.S.	Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Environmental Science and Pollution Research	2021	9441344
3989	Road Centerline Extraction From VHR Images Using SVM and Multi-Scale Maximum Response Filter	Soni P.K., Rajpal N., Mehta R.	Soni, P.K., Research Scholar, University School of Information Communication and Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Rajpal, N., Research Scholar, University School of Information Communication and Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of the Indian Society of Remote Sensing	2021	0255660X
3990	Effect of multipass cold plastic deformation and heat treatment on the mechanical properties of C250 maraging steel for aerospace applications	Kasana S.S., Pandey O.P.	Kasana, S.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India, Star Wire (India) Ltd, Ballabgarh, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2021	14644207
3991	Recycling of waste bagasse ash in concrete for sustainable construction	Singh M., Siddique R., Setia S.S., Singh G.	Singh, M., Institute of Engineering and Technology, Chitkara University, Chandigarh, Punjab, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Setia, S.S., Guru Nanak Dev Engineering College, Ludhiana, Punjab, India; Singh, G., Department of Civil Engineering, Punjabi University, Patiala, Punjab, India	Asian Journal of Civil Engineering	2021	15630854

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
3992	BloTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem	Ray P.P., Chowhan B., Kumar N., Almogren A.	Ray, P.P., Department of Computer Applications, Sikkim University, Gangtok, 737102, India; Chowhan, B., National Institute of Electronics and Information Technology, Gangtok, 737101, India; Kumar, N., Department of Computer Science and Engineering, TIET, Patiala, 147004, India, School of Computing, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, Department of Informatics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Almogren, A., Chair of Cyber Security, Department of Computer Science, College of Computer and Information Sciences, King Saud University, Riyadh, 11633, Saudi Arabia	IEEE Internet of Things Journal	2021	23274662
3993	Digitized Frequency Modulated Thermal Wave Imaging for Detection and Estimation of Osteoporosis	Sharma A., Mulaveesala R., Dua G., Arora V., Kumar N.	Sharma, A., Centre for Biomedical Engineering, Indian Institute of Technology Ropar, Rupnagar, India; Mulaveesala, R., Department of Electrical Engineering, InfraRed Imaging Laboratory (IRIL), Indian Institute of Technology Ropar, Rupnagar, India; Dua, G., Thapar Institute of Engineering and Technology, Patiala, India; Arora, V., Indian Institute of Information Technology Una Transit Campus-II, Una, India; Kumar, N., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Rupnagar, India	IEEE Sensors Journal	2021	1530437X
3994	Marvellous Muscodor spp.: Update on Their Biology and Applications	Saxena S., Strobel G.A.	Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Strobel, G.A., Department of Plant Sciences and Plant Pathology, Montana State University, Bozeman, MT 59717, United States	Microbial Ecology	2021	953628
3995	Mathematical modeling of Indian Tala's Kaidas and Paltas using formal grammar	Mor B., Garhwal S., Kumar A.	Mor, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
3996	Fabricating In Situ Powdered Nickel–Alumina Metal Matrix Composites Through Microwave Heating Process: A Sustainable Approach	Singh S., Gupta D., Jain V.	Singh, S., Department of Mechanical Engineering, The NorthCap University, Gurugram, Haryana 122017, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	International Journal of Metalcasting	2021	19395981
3997	Novel exponential divergence measure of complex intuitionistic fuzzy sets with an application to the decision-making process	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Scientia Iranica	2021	10263098
3998	New fourth- and sixth-order classes of iterative methods for solving systems of nonlinear equations and their stability analysis	Kansal M., Cordero A., Bhalla S., Torregrosa J.R.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Cordero, A., Instituto Universitario de Matemática Multidisciplinar, Universitat Politècnica de València, València, 46022, Spain; Bhalla, S., Department of Mathematics, Chandigarh University, Mohali, 140413, India; Torregrosa, J.R., Instituto Universitario de Matemática Multidisciplinar, Universitat Politècnica de València, València, 46022, Spain	Numerical Algorithms	2021	10171398
3999	A Blockchain-Based Proxy Re-Encryption with Equality Test for Vehicular Communication Systems	Chen B., He D., Kumar N., Wang H., Choo K.-K.R.	Chen, B., School of Computer Science, Chongqing University, Chongqing, China; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Wang, H., Jiangsu Key Laboratory of Big Data Security and Intelligent Processing, College of Computer, Nanjing University of Posts and Telecommunications, Nanjing, China; Choo, K.-K.R., Dept. of Info. Systems and Cyber Security and the Department of Electrical and Computer Engineering, University of Texas at San Antonio, San Antonio, TX, United States	IEEE Transactions on Network Science and Engineering	2021	23274697
4000	A Fault-Tolerant Multilevel Inverter Topology with Preserved Output Power and Voltage Levels under Pre-And Postfault Operation	Chappa A., Gupta S., Sahu L.K., Gupta K.K.	Chappa, A., Department of Electrical Engineering, NIT Raipur, Raipur, India; Gupta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sahu, L.K., Department of Electrical Engineering, NIT Raipur, Raipur, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Industrial Electronics	2021	2780046
4001	Investigations for magnetic properties of PLA-PVC-Fe3O4-wood dust blend for self-assembly applications	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Thermoplastic Composite Materials	2021	8927057
4002	On investigation of rheological, mechanical and morphological characteristics of waste polymer-based feedstock filament for 3D printing applications	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Thermoplastic Composite Materials	2021	8927057

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4003	Security Challenges in Industry 4.0 SCADA Systems-A Digital Forensic Prospective	Malik V.R., Gobinath K., Khadsare S., Lakra A., Akulwar S.V.	Malik, V.R., Thapar Institute of Engineering and Technology, India; Gobinath, K., Indian Computer Emergency Response Team (CERT-In), Ministry of Electronics and Information Technology; Khadsare, S., Indian Computer Emergency Response Team (CERT-In), Ministry of Electronics and Information Technology; Lakra, A., Indian Computer Emergency Response Team (CERT-In), Ministry of Electronics and Information Technology; Akulwar, S.V., Indian Computer Emergency Response Team (CERT-In), Ministry of Electronics and Information Technology	ICAICST 2021 - 2021 International Conference on Artificial Intelligence and Computer Science Technology	2021	
4004	Current progress, challenges and future prospects of indazoles as protein kinase inhibitors for the treatment of cancer	Tandon N., Luxami V., Kant D., Tandon R., Paul K.	Tandon, N., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kant, D., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Tandon, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	RSC Advances	2021	20462069
4005	Protection of lead-induced cytotoxicity using paramagnetic nickel-insulin quantum clusters	Sharda D., Attri K., Kaur P., Choudhury D.	Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Attri, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	RSC Advances	2021	20462069
4006	Surface-Modified CaO Catalyst for the Production of Glycerol Carbonate	Kaur A., Ali A.	Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Virginia Tech-TIET Center of Excellent in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India	ChemistrySelect	2021	23656549
4007	Tuning the photocatalytic/electrocatalytic properties of MoS ₂ /MoSe ₂ heterostructures by varying the weight ratios for enhanced wastewater treatment and hydrogen production	Monga D., Basu S.	Monga, D., School of Chemistry and Biochemistry, Affiliate Faculty, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	RSC Advances	2021	20462069
4008	The obligation versus opportunity framework for corporate social responsibility implementation	Sharma A., Singh G.	Sharma, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology, India; Singh, G., LM Thapar School of Management, Thapar Institute of Engineering and Technology, India	Corporate Social Responsibility and Sustainable Development: Strategies, Practices and Business Models	2021	
4009	Elucidating SNP-based genetic diversity and population structure of advanced breeding lines of bread wheat (<i>Triticum aestivum</i> L.)	Tomar V., Dhillon G.S., Singh D., Singh R.P., Poland J., Joshi A.K., Tiwari B.S., Kumar U.	Tomar, V., Borlaug Institute for South Asia, New Delhi, Delhi, India, Department of Biological Sciences and Biotechnology, Institute of Advanced Research, Gandhinagar,, Gujarat, Gandhinagar, India, International Maize and Wheat Improvement Centre, New Delhi, Delhi, India; Dhillon, G.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, D., Climate Corporation, Bayer Crop Science, Creve Coeur, MO, United States; Singh, R.P., Global Wheat Program, International Maize and Wheat Improvement Centre, Texcoco, Mexico; Poland, J., Department of Plant Pathology, Kansas State University, Manhattan, KS, United States; Joshi, A.K., Borlaug Institute for South Asia, New Delhi, Delhi, India, International Maize and Wheat Improvement Centre, New Delhi, Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Centre, Texcoco, Mexico; Tiwari, B.S., Department of Biological Sciences and Biotechnology, Institute of Advanced Research, Gandhinagar,, Gujarat, Gandhinagar, India; Kumar, U., Borlaug Institute for South Asia, New Delhi, Delhi, India, International Maize and Wheat Improvement Centre, New Delhi, Delhi, India, Global Wheat Program, International Maize and Wheat Improvement Centre, Texcoco, Mexico	PeerJ	2021	21678359
4010	Morphology-Dependent Performance of MnO ₂ Nanostructure-Carbon Dot-Based Biosensors for the Detection of Glutathione	Sohal N., Maity B., Basu S.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Applied Bio Materials	2021	25766422

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4011	Role of morphological features and oxygen vacancies on electrocatalytic oxygen evolution reaction (OER) activity and pseudocapacitance performance of BIVO4 structures	Mir R.A., Pandey O.P.	Mir, R.A., Center of Excellence for Emerging Materials (CEEMS), CEEMS-VT, TIET Patiala, India, School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, India; Pandey, O.P., Center of Excellence for Emerging Materials (CEEMS), CEEMS-VT, TIET Patiala, India, School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, India	Applied Physics Letters	2021	36951
4012	Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications	Guo Z., Shen Y., Bashir A.K., Imran M., Kumar N., Zhang D., Yu K.	Guo, Z., School of Artificial Intelligence, National Research Base of Intelligent Manufacturing Service, Chongqing Technology and Business University, Chongqing, China; Shen, Y., School of Artificial Intelligence, National Research Base of Intelligent Manufacturing Service, Chongqing Technology and Business University, Chongqing, China; Bashir, A.K., Department of Computing and Mathematics, Manchester Metropolitan University, Manchester, United Kingdom; Imran, M., College of Applied Computer Science, King Saud University, Riyadh, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Zhang, D., School of Information Engineering, Zhengzhou University, Zhengzhou, China; Yu, K., Global Information and Telecommunication Institute, Waseda University, Tokyo, Japan	IEEE Internet of Things Journal	2021	23274662
4013	Chitosan/PVA silver nanocomposite for butachlor removal: Fabrication, characterization, adsorption mechanism and isotherms	Kaur R., Goyal D., Agnihotri S.	Kaur, R., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147001, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147001, India; Agnihotri, S., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab 147001, India, Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Kundli, Sonapat, Haryana 131028, India	Carbohydrate Polymers	2021	1448617
4014	1-Oxo-1H-phenalene-2,3-dicarbonitrile Based Sensor for Selective Detection of Cyanide ions in Industrial Waste	Mehta R., Paul K., Luxami V.	Mehta, R., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paul, K., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Luxami, V., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Molecular Structure	2021	222860
4015	Elastic wave based evaluation of CFRP protected RC structures subjected to corrosion	Sharma A., Aneja S., Sharma S., Gupta R.	Sharma, A., Civil Engineering Department, University of Victoria, Canada; Aneja, S., Civil Engineering Department, University of Victoria, Canada; Sharma, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, R., Civil Engineering Department, University of Victoria, Canada, Civil Engineering Department, University of Victoria, Victoria, Canada	Construction and Building Materials	2021	9500618
4016	I2UTS: An IoT based Intelligent Urban Traffic System	Suresh Achari V.P., Khanam Z., Singh A.K., Jindal A., Prakash A., Kumar N.	Suresh Achari, V.P., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India; Khanam, Z., School of Computer Science and Electronics Engineering, University of Essex, United Kingdom; Singh, A.K., School of Computer Science and Electronics Engineering, University of Essex, United Kingdom; Jindal, A., School of Computer Science and Electronics Engineering, University of Essex, United Kingdom; Prakash, A., School of Computer Science and Engineering, Nanyang Technological University, Singapore; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India	IEEE International Conference on High Performance Switching and Routing, HPSR	2021	23255595
4017	Synthesis of Triphenylethylene-Naphthalimide Conjugates as topoisomerase-II α inhibitor and HSA binder	Rani S., Luxami V., Paul K.	Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	ChemMedChem	2021	18607179
4018	Performance optimization of solar-assisted heat pump system for water heating applications	Meena C.S., Raj B.P., Saini L., Agarwal N., Ghosh A.	Meena, C.S., CSIR—Central Building Research Institute, Roorkee, 247667, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Raj, B.P., CSIR—Central Building Research Institute, Roorkee, 247667, India, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Saini, L., CSIR—Central Building Research Institute, Roorkee, 247667, India, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, N., CSIR—Central Building Research Institute, Roorkee, 247667, India, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Ghosh, A., College of Engineering, Mathematics and Physical Sciences, Renewable Energy, University of Exeter, Penryn, Cornwall, TR10 9FE, United Kingdom	Energies	2021	19961073
4019	Data clustering using moth-flame optimization algorithm	Singh T., Saxena N., Khurana M., Singh D., Abdalla M., Alshazly H.	Singh, T., Department of Computer Science and Engineering, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, 751030, India; Saxena, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Khurana, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, D., School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India; Abdalla, M., Department of Mathematics, Faculty of Science, King Khalid University, Abha, 62529, Saudi Arabia, Department of Mathematics, Faculty of Science, South Valley University, Qena, 83523, Egypt; Alshazly, H., Faculty of Computers and Information, South Valley University, Qena, 83523, Egypt	Sensors	2021	14248220

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4020	Modified artificial bee colony algorithm for solving mixed interval-valued fuzzy shortest path problem	Ebrahimnejad A., Enayattabr M., Motameni H., Garg H.	Ebrahimnejad, A., Department of Mathematics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Enayattabr, M., Department of Computer Engineering, Babol Branch, Islamic Azad University, Sari, Iran; Motameni, H., Department of Computer Engineering, Sari Branch, Islamic Azad University, Sari, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Complex and Intelligent Systems	2021	21994536
4021	Experimental studies and drying shrinkage prediction model for concrete containing waste foundry sand	Mushtaq S.M., Siddique R., Goyal S., Kaur K.	Mushtaq, S.M., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, K., Civil Engineering Department, Punjabi University, Patiala, 147002, India	Cleaner Engineering and Technology	2021	26667908
4022	A Hybrid Approach for Scene Matching used for Autonomous vehicles	Kaur B., Bhattacharya J.	Kaur, B., Nitte Meenakshi Institute of Tech., Information Science and Engineering Department, Bangalore, India; Bhattacharya, J., Thapar Institute of Engg. and Tech., Computer Science and Engineering Department, Patiala, India	2021 IEEE International Conference on Communications Workshops, ICC Workshops 2021 - Proceedings	2021	
4023	A Secure Scalable Authentication Protocol for Access Network Communications using ECC	Patel S., Dua A., Kumar N.	Patel, S., Bits Pilani, Department of Computer Science and Information Systems, Pilani, India; Dua, A., Bits Pilani, Department of Computer Science and Information Systems, Pilani, India; Kumar, N., Thapar University, Computer Science and Engineering Department, Punjab, Patiala, India	2021 IEEE International Conference on Communications Workshops, ICC Workshops 2021 - Proceedings	2021	
4024	Interference Mitigation and Secrecy Ensured for NOMA-Based D2D Communications under Imperfect CSI	Budhiraja I., Gupta R., Kumar N., Tyagi S., Tanwar S., Rodrigues J.J.P.C.	Budhiraja, I., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Gupta, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Tyagi, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Tanwar, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Rodrigues, J.J.P.C., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India	IEEE International Conference on Communications	2021	15503607
4025	Almost α -f-contraction, fixed points and applications	Kumar D., Tomar A., Chandok S., Sharma R.	Kumar, D., Department of Mathematics, Lovely Professional University, Phagwara, 144411, India; Tomar, A., Department of Mathematics, Government Degree College Thatyur, Tehri Garhwal, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, R., Department of Mathematics, G. I. C. Gheradhar (Dogi) Tehri Garhwal (Uttarakhand), India	International Journal of Nonlinear Analysis and Applications	2021	20086822
4026	Modified circuit design of VFD for critical loads under single phasing condition	Sinha A., Grover S.	Sinha, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Grover, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Engineering Trends and Technology	2021	23490918
4027	Performance analysis of different restoration techniques for degraded 3D cervical spine MRI image	Turk N., Kamboj S., Khera S., Rajput N.	Turk, N., Electronics and Communication Engineering Department, J.C.Bose University of Science and Technology, YMCA, Haryana, Faridabad, 121006, India; Kamboj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Khera, S., Electronics and Communication Engineering Department, J.C.Bose University of Science and Technology, YMCA, Haryana, Faridabad, 121006, India; Rajput, N., Electronics and Communication Engineering Department, J.C.Bose University of Science and Technology, YMCA, Haryana, Faridabad, 121006, India	Biomedical and Pharmacology Journal	2021	9746242
4028	A Provably Secure and Lightweight Identity-Based Two-Party Authenticated Key Agreement Protocol for IIoT Environments	Gupta D.S., Islam S.K.H., Obaidat M.S., Vijayakumar P., Kumar N., Park Y.	Gupta, D.S., Department of Computer Science and Engineering, Shershah College of Engineering Sasaram, Dehri-on-Sone, India; Islam, S.K.H., Department of Computer Science and Engineering, Indian Institute of Information Technology Kalyani, Kalyani, India; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, Sharjah, United Arab Emirates, King Abdullah II School of Information Technology, University of Jordan, Amman, 11942, Jordan, University of Science and Technology, Beijing, 100083, China, Amity University, Noida, 201313, India; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, The King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Park, Y., College of Engineering, Department of Computer Engineering, Keimyung University, Daegu, South Korea	IEEE Systems Journal	2021	19328184
4029	Cross-layer interference management scheme for d2d mobile users using noma	Budhiraja I., Kumar N., Tyagi S.	Budhiraja, I., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Tyagi, S., Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India	IEEE Systems Journal	2021	19328184

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4030	Combinatorial interpretations of q-series using n-color partitions	Rana M., Saikia N.	Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saikia, N., Department of Mathematics, Rajiv Gandhi University, Rono Hills Arunachal Pradesh, Doimukh, 791112, India	Journal of the Ramanujan Mathematical Society	2021	9701249
4031	Ground state and excited state multinucleon transfer channels in interactions of ^{28}Si with $^{90,94}\text{Zr}$ in near barrier region	Kalkal S., Mandal S., Madhavan N., Jhingan A., Nath S., Prasad E., Sandal R., Goyal S., Saxena M., Mohanto G., Verma S., Behera B.R., Kumar S., Datta U., Sinha A.K., Singh R., Noor S.	Kalkal, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Mandal, S., Department of Physics and Astrophysics, University of Delhi, India; Madhavan, N., Inter University Accelerator Centre, New Delhi, India; Jhingan, A., Inter University Accelerator Centre, New Delhi, India; Nath, S., Inter University Accelerator Centre, New Delhi, India; Prasad, E., School of Physical Sciences, Central University of Kerala, Kasaragod, Nilesishwar, India; Sandal, R., Government College Bhoranj (Tarkwari), Hamirpur, India; Goyal, S., Department of Physics and Astrophysics, University of Delhi, India; Saxena, M., Department of Physics and Astrophysics, University of Delhi, India; Mohanto, G., Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, India; Verma, S., Department of Physics and Astrophysics, University of Delhi, India; Behera, B.R., Department of Physics, Panjab University, Chandigarh, India; Kumar, S., Department of Physics and Astrophysics, University of Delhi, India; Datta, U., Saha Institute of Nuclear Physics, Kolkata, India; Sinha, A.K., UGC-DAE Consortium for Scientific Research, Kolkata, India; Singh, R., Department of Physics and Astrophysics, University of Delhi, India; Noor, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Modern Physics E	2021	2183013
4032	Impact of noncoplanar degrees of freedom on quasifission contributions with the estimation of unobserved decay channels for the study of $\text{Pt} \times 196$ using the dynamical cluster-decay model	Chopra S., Sharma M.K., Hess P.O., Hemdeep, Neetumaan	Chopra, S., Department of Physics, Panjab University, Chandigarh, 160014, India; Sharma, M.K., School of Physics and Material Science, Thapar University, Patiala, 147004, India; Hess, P.O., Instituto de Ciencias Nucleares, UNAM, Mexico City, 04510, Mexico, Frankfurt Institute for Advanced Studies, J. W. von Goethe University, Frankfurt, Germany; Hemdeep, Department of Physics, Panjab University, Chandigarh, 160014, India; Neetumaan, Department of Physics, Panjab University, Chandigarh, 160014, India	Physical Review C	2021	24699985
4033	Synthesis and spectroscopic characterization of a target-specific nanohybrid for redox buffering in cellular milieu	Mondal S., Adhikari A., Ghosh R., Singh M., Das M., Darbar S., Bhattacharya S.S., Pal D., Pal S.K.	Mondal, S., Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Adhikari, A., Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Ghosh, R., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, Kolkata, West Bengal 700106, India; Singh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India; Das, M., Department of Zoology, Uluberia College, University of Calcutta, Uluberia, Howrah, 711315, India, Department of Zoology, Vidyasagar University, Rangamati, Midnapore, 721102, India; Darbar, S., Research & Development Division, Dey's Medical Stores (Mfg.) Ltd, 62, Bondel Road, Ballygunge, Kolkata, 700019, India; Bhattacharya, S.S., Department of Zoology, Uluberia College, University of Calcutta, Uluberia, Howrah, 711315, India; Pal, D., Department of Zoology, Uluberia College, University of Calcutta, Uluberia, Howrah, 711315, India; Pal, S.K., Department of Chemical, Biological and Macromolecular Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India, Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, Kolkata, West Bengal 700106, India	MRS Advances	2021	20598521
4034	eDiaPredict: An Ensemble-based Framework for Diabetes Prediction	Singh A., Dhillon A., Kumar N., Hossain M.S., Muhammad G., Kumar M.	Singh, A., Thapar University, Pb, Patiala, India; Dhillon, A., Thapar University, Pb, Patiala, India; Kumar, N., Thapar University, Pb, Patiala, India; Hossain, M.S., Research Chair of Pervasive and Mobile Computing, Department of Software Engineering, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia; Muhammad, G., Department of Computer Engineering, College of Computer and Information Sciences, King Saud University, Saudi Arabia; Kumar, M., SMVD University, Katra, India	ACM Transactions on Multimedia Computing, Communications and Applications	2021	15516857
4035	Interval valued t-spherical fuzzy information aggregation based on dombi t-norm and dombi t-conorm for multi-attribute decision making problems	Ullah K., Garg H., Gul Z., Mahmood T., Khan Q., Ali Z.	Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan, Department of Data Analysis and Mathematical Modelling, Ghent University Belgium, Ghent, 9000, Belgium; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, 147004, India; Gul, Z., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Mahmood, T., Department of Mathematics, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Khan, Q., Department of Mathematics, University of Haripur, Haripur, 22620, Pakistan; Ali, Z., Department of Mathematics, International Islamic University Islamabad, Islamabad, 44000, Pakistan	Symmetry	2021	20738994

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4036	Fuzzy Logic in Surveillance Big Video Data Analysis	Muhammad K., Obaidat M.S., Hussain T., Ser J.D., Kumar N., Tanveer M., Doctor F.	Muhammad, K., Department of Software, Sejong University, Seoul, 143-747, South Korea; Obaidat, M.S., College of Computing and Informatics, University of Sharjah27272, United Arab Emirates, KASIT, University of Jordan11942, Jordan, University of Science and Technology, Beijing, 100083, China; Hussain, T., Intelligent Media Laboratory, Department of Software, Sejong University, Seoul, 143-747, South Korea; Ser, J.D., TECNALIA, Basque Research and Technology Alliance (BRTA), Derio, 48160, Spain, University of the Basque Country (UPV/EHU), Bilbao, 48013, Spain; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, Punjab, 147004, India; Tanveer, M., Department of Mathematics, Indian Institute of Technology Indore, Simrol, Indore, 453552, India; Doctor, F., Centre for Computational Intelligence, School of Computer Science and Electronic Engineering, University of Essex, Wivenhoe Park, Colchester, Essex, CO4 3SQ, United Kingdom	ACM Computing Surveys	2021	3600300
4037	Impact of g-C3N4 loading on NiCo LDH for adsorptive removal of anionic and cationic organic pollutants from aqueous solution	Kaur H., Singh S., Pal B.	Kaur, H., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Korean Journal of Chemical Engineering	2021	2561115
4038	Multi-dependency and time based resource scheduling algorithm for scientific applications in cloud computing	Prakash V., Bawa S., Garg L.	Prakash, V., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Bawa, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Garg, L., Computer Information Systems, Faculty of Information & Communication Technology, University of Malta, Msida, MSD 2080, Malta, Computer Science Department, University of Liverpool, Liverpool, 14 3PE, United Kingdom	Electronics (Switzerland)	2021	20799292
4039	A novel approach for solving rough multi-objective transportation problem: development and prospects	Garg H., Rizk-Allah R.M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Rizk-Allah, R.M., Department of Basic Engineering Science, Faculty of Engineering, Menoufia University, Shebin El-Kom, Egypt	Computational and Applied Mathematics	2021	22383603
4040	Cloud and edge computing-based computer forensics: Challenges and open problems	Prakash V., Williams A., Garg L., Savaglio C., Bawa S.	Prakash, V., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147001, India; Williams, A., Computer Science Department, University of Liverpool, Liverpool, L69 3GH, United Kingdom; Garg, L., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147001, India, Computer Information Systems, Faculty of Information & Communication Technology, University of Malta, Msida, 2080, Malta; Savaglio, C., Institute for High Performance Computing and Networking (ICAR), National Research Council, Rende, 87036, Italy; Bawa, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147001, India	Electronics (Switzerland)	2021	20799292
4041	Optical and photoluminescence properties of CaV2O6 functionalized by sodium doping	Kaur P., Singh V., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Today Communications	2021	23524928
4042	Coupled optimal results with an application to nonlinear integral equations	Konar P., Chandok S., Dutta S., De la Sen M.	Konar, P., Department of Mathematics, Amity University, Kadampukur, 24PGS(N), Kolkata, 700135, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Dutta, S., Department of Mathematics, Amity University, Kadampukur, 24PGS(N), Kolkata, 700135, India; De la Sen, M., Institute of Research and Development of Processes IIDP, Campus of Leioa, University of the Basque Country, P.O. Box 48940, Leioa, Spain	Axioms	2021	20751680
4043	Experimental Study of Domestic Refrigerator Performance Improvement with Evaporative Condenser	Khalsa K.P.S., Sadhu S.	Khalsa, K.P.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sadhu, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Air-Conditioning and Refrigeration	2021	20101325
4044	Secrecy-ensured NOMA-based cooperative D2D-aided fog computing under imperfect CSI	Gupta R., Tanwar S., Kumar N.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Journal of Information Security and Applications	2021	22142134

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4045	Coupled microalgal–bacterial biofilm for enhanced wastewater treatment without energy investment	Akao P.K., Singh B., Kaur P., Sor A., Avni A., Dhir A., Verma S., Kapoor S., Phutela U.G., Satpute S., Sharma S., Avisar D., Sandha K.S., Mamane H.	Akao, P.K., School of Mechanical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, The Water Research Center, Porter School for Environment and Earth Sciences, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, 69978, Israel; Singh, B., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 69978, India; Kaur, P., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 69978, India; Sor, A., School of Plant Science and Food Security, Tel Aviv University, Tel Aviv, 69978, Israel; Avni, A., School of Plant Science and Food Security, Tel Aviv University, Tel Aviv, 69978, Israel; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 69978, India; Verma, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 69978, India; Kapoor, S., Department of Microbiology, Punjab Agriculture University, Ludhiana, 141001, India; Phutela, U.G., Department of Renewable Energy Engineering, Punjab Agriculture University, Ludhiana, 141001, India; Satpute, S., Department of Soil Water Engineering, Punjab Agriculture University, Ludhiana, 141001, India; Sharma, S., Department of Soil Science, Punjab Agriculture University, Ludhiana, 141001, India; Avisar, D., The Water Research Center, Porter School for Environment and Earth Sciences, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, 69978, Israel; Sandha, K.S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 69978, India; Mamane, H., School of Mechanical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel	Journal of Water Process Engineering	2021	22147144
4046	Possibilistic mean of generalized non-linear intuitionistic fuzzy number to solve a price and quality dependent demand multi-item inventory model	Giri S.K., Garai T., Garg H., Islam S.	Giri, S.K., Department of Mathematics, University of Kalyani, Nadia, Kalyani, West Bengal 741235, India; Garai, T., Department of Mathematics, Syamsundar College, Syamsundar, Purba Bardhaman, West Bengal 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Islam, S., Department of Mathematics, University of Kalyani, Nadia, Kalyani, West Bengal 741235, India	Computational and Applied Mathematics	2021	22383603
4047	DYNAMICS OF AN INFECTIOUS DISEASE in the PRESENCE of SATURATED MEDICAL TREATMENT of HOLLING TYPE III and SELF-PROTECTION	Mandale R., Kumar A., Vamsi D.K.K., Srivastava P.K.	Mandale, R., Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning 515134, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Vamsi, D.K.K., Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning 515134, India; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India	Journal of Biological Systems	2021	2183390
4048	Visible-light-driven efficient photocatalytic abatement of recalcitrant pollutants by centimeter-length MoO ₃ /SiO ₂ monoliths with long service life	Sharma S., Basu S.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Applied Materials Today	2021	23529407
4049	A survey and classification on applications of antenna in health care domain: data transmission, diagnosis and treatment	Gupta A., Kansal A., Chawla P.	Gupta, A., Thapar University, Patiala, India; Kansal, A., Thapar University, Patiala, India; Chawla, P., Chandigarh University, Gharuan, Mohali, India	Sadhana - Academy Proceedings in Engineering Sciences	2021	2562499
4050	A Genetic Algorithm Assisted Fuzzy Q-Learning epileptic seizure classifier	Kukker A., Sharma R.	Kukker, A., EIE Department, TIET, Patiala, India; Sharma, R., ICE Division, NSUT, India	Computers and Electrical Engineering	2021	457906
4051	Versatile fullerenes as sensor materials	Shetti N.P., Mishra A., Basu S., Aminabhavi T.M.	Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 027, India; Mishra, A., Department of Chemistry, Bilkent University, Cankaya, Ankara, 06008, Turkey; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Aminabhavi, T.M., P. G. Department of Studies in Chemistry, Karnatak University, Dharwad, Karnataka 580 003, India	Materials Today Chemistry	2021	24685194
4052	Long-Term Drying Shrinkage of GGBFS-Incorporated RCC under Various Temperature Exposures	Saluja S., Kaur K., Goyal S., Bhattacharjee B.	Saluja, S., Dept. of Civil Engineering, Univ. College of Engineering, Punjabi Univ., Patiala, Punjab, 147002, India; Kaur, K., Dept. of Civil Engineering, Univ. College of Engineering, Punjabi Univ., Patiala, Punjab, 147002, India; Goyal, S., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147 004, India; Bhattacharjee, B., Dept. of Civil Engineering, Indian Institute of Technology, HauzKhas, New Delhi, 110 016, India	Journal of Materials in Civil Engineering	2021	8991561
4053	Utilization of Biomineralized Steel Slag in Cement Mortar to Improve Its Properties	Kaur P., Joshi S., Shinde O.A., Sudhakara Reddy M.	Kaur, P., Dept. of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Joshi, S., Dept. of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Shinde, O.A., Environment Center of Excellence, Tata Steel Limited, Jamshedpur Steel Works, Jamshedpur, 831 001, India; Sudhakara Reddy, M., Dept. of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Materials in Civil Engineering	2021	8991561

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4054	Frequency control in hybrid distributed power systems via type-2 fuzzy PID controller	Kumar Khadanga R., Kumar A., Panda S.	Kumar Khadanga, R., Department of Electrical and Electronics Engineering, CUTM, Bhubaneswar, 752050, India; Kumar, A., Department of Electrical and Instrumentation Engineering, TIET, Patiala, 147004, India; Panda, S., Department of Electrical Engineering, VSSUT, Burla, Odisha 768018, India	IET Renewable Power Generation	2021	17521416
4055	Diffusional investigation of alkali ions from composition tuned glass substrates to Mo-thin film for solar cell application	Bansal N., Mohanty B.C., Singh K.	Bansal, N., School of Physics & Materials Science, Thapar University, Patiala, Punjab 147004, India; Mohanty, B.C., School of Physics & Materials Science, Thapar University, Patiala, Punjab 147004, India; Singh, K., School of Physics & Materials Science, Thapar University, Patiala, Punjab 147004, India	Surfaces and Interfaces	2021	24680230
4056	Delay-Aware Control Plane Virtual Topology Design of Software Defined-Elastic Optical Network	Chandwani G., Behera S., Das G.	Chandwani, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Behera, S., G. S. Sanyal School of Telecommunications, IIT Kharagpur, Kharagpur, India; Das, G., G. S. Sanyal School of Telecommunications, IIT Kharagpur, Kharagpur, India	IEEE Transactions on Network and Service Management	2021	19324537
4057	Green Computing in Software Defined Social Internet of Vehicles	Kumar N., Chaudhry R., Kaiwartya O., Kumar N., Ahmed S.H.	Kumar, N., Indian Institute of Technology Roorkee (IITR), Roorkee, 247667, India; Chaudhry, R., International Institute of Information Technology, Naya Raipur, 493661, India; Kaiwartya, O., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ahmed, S.H., Jma Wireless, Liverpool, NY 13088, United States	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
4058	Energy loss straggling of energetic ions in varying thicknesses of Titanium foils	Kumar S., Rani S., Sharma P., Berar U., Khan S.A., Diwan P.K.	Kumar, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra136 119, India; Rani, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra136 119, India; Sharma, P., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra136 119, India; School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Berar, U., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra136 119, India; Khan, S.A., Inter University Accelerator Centre, P.O. Box 10502, New Delhi, 110 067, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra136 119, India	Vacuum	2021	0042207X
4059	Secure Storage Auditing with Efficient Key Updates for Cognitive Industrial IoT Environment	Zheng W., Lai C.-F., He D., Kumar N., Chen B.	Zheng, W., College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, 210016, China; Lai, C.-F., Department of Engineering Science, National Cheng Kung University, Tainan, 701, Taiwan; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, 430072, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Chen, B., College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, Nanjing, 210016, China	IEEE Transactions on Industrial Informatics	2021	15513203
4060	Addition of compatibilized nanoclay and UHMWPE fibers to epoxy based GFRPs for improved mechanical properties	Shelly D., Nanda T., Mehta R.	Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India, TIET-Virginia Tech Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India	Composites Part A: Applied Science and Manufacturing	2021	1359835X
4061	Computational prediction of the effects of non-synonymous single nucleotide polymorphisms on the GPI-anchor transamidase subunit GPI8p of Plasmodium falciparum	Singh S.K., Reddy M.S.	Singh, S.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Computational Biology and Chemistry	2021	14769271
4062	Pulse Compression Favorable Thermal Wave Imaging Techniques for Non-Destructive Testing and Evaluation of Materials	Mulaveesala R., Arora V., Dua G.	Mulaveesala, R., Indian Institute of Technology Ropar, Ropar, 140001, India; Arora, V., Indian Institute of Information Technology Una, Una, 177220, India; Dua, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Sensors Journal	2021	1530437X
4063	Combining CaO-SiO ₂ -TiO ₂ and CaO-SiO ₂ -Al ₂ O ₃ ternary phase systems for design of bimetallic welds	Bhandari D., Chhibber R., Sharma L., Arora N., Mehta R.	Bhandari, D., Mechanical Engineering Section, Yadavindra College of Engineering, Talwandi Sabo, India; Chhibber, R., Department of Mechanical Engineering, Indian Institute of Technology Jodhpur, Jodhpur, India; Sharma, L., Department of Mechanical Engineering, Chandigarh University, Gharuan, India; Arora, N., Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee, India; Mehta, R., Department of Chemical Engineering, Thapar University, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2021	9544054
4064	Multivariate screening approach indicated adaptive tolerance to salt stress in the seedlings of an agroforestry tree, Eucalyptus tereticornis Sm.	Singh D., Kumar A.	Singh, D., TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Kumar, A., TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	Plant Cell, Tissue and Organ Culture	2021	1676857

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4065	Design and experimental verification of compact dual-element quasi-self-complementary ultra-wideband multiple-input multiple-output antenna for wireless applications	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Microwave and Optical Technology Letters	2021	8952477
4066	High Transconductance Gain Current Differencing Transconductance Amplifiers Using a New Approach of gm Boosting	Kour R., Pandey R., Rai S.K.	Kour, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
4067	Performance Evaluation of Machine Learning Based Face Recognition Techniques	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, India	Wireless Personal Communications	2021	9296212
4068	Reconciliation based key exchange schemes using lattices: a review	Dabra V., Bala A., Kumari S.	Dabra, V., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India, Department of Computer Science and Engineering, SGT University, Gurugram, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumari, S., Department of Mathematics, Chaudhary Charan Singh University, Meerut, India	Telecommunication Systems	2021	10184864
4069	An Efficient Opposition Based Grey Wolf Optimizer for Weight Adaptation in Cooperative Spectrum Sensing	Kaur A., Sharma S., Mishra A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mishra, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
4070	Improved Maximum Boost Control and Reduced Common-Mode Voltage Switching Patterns of Three-Level Z-Source Inverter	Singh S., Sonar S.	Singh, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sonar, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Power Electronics	2021	8858993
4071	Effect of E-learning on public health and environment during COVID-19 lockdown	Agarwal A., Sharma S., Kumar V., Kaur M.	Agarwal, A., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, V., Department of Computer Science and Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, 177005, India; Kaur, M., Department of Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India	Big Data Mining and Analytics	2021	20960654
4072	SCBS: A Short Certificate-Based Signature Scheme with Efficient Aggregation for Industrial-Internet-of-Things Environment	Verma G.K., Kumar N., Gope P., Singh B.B., Singh H.	Verma, G.K., Department of Mathematics, ASET, Amity University Madhya Pradesh, Gwalior, India; Kumar, N., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, The Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, Department of Computer Science and Engineering, Thapar University, Patiala, India; Gope, P., Department of Computer Science, University of Sheffield, Sheffield, United Kingdom; Singh, B.B., Department of Computer Science, Kamla Raja Girls Government Post Graduate College, Gwalior, India; Singh, H., Department of Mathematics, Hindustan College of Science and Technology, Mathura, India	IEEE Internet of Things Journal	2021	23274662
4073	Storage as a service in Fog computing: A systematic review	Rani R., Kumar N., Khurana M., Kumar A., Barnawi A.	Rani, R., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Kumar, N., Thapar Institute of Engineering and Technology, India, and School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, and King Abdul Aziz University, Jeddah, Saudi Arabia; Khurana, M., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Barnawi, A., King Abdul Aziz University, Saudi Arabia	Journal of Systems Architecture	2021	13837621
4074	Blockchain-assisted secure UAV communication in 6G environment: Architecture, opportunities, and challenges	Gupta R., Nair A., Tanwar S., Kumar N.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Nair, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia, School of Computing, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	IET Communications	2021	17518628

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4075	CaFu MOF as an efficient adsorbent for simultaneous removal of imidacloprid pesticide and cadmium ions from wastewater	Singh S., Kaushal S., Kaur J., Kaur G., Mittal S.K., Singh P.P.	Singh, S., CSIC Department, Post Graduate Institute of Medical Education and Research(PGIMER), Chandigarh, India; Kaushal, S., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kaur, J., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Kaur, G., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Mittal, S.K., Department of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Singh, P.P., Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India	Chemosphere	2021	456535
4076	Improved search space shrinking for medical image retrieval using capsule architecture and decision fusion	Bhattacharya J., Bhatia T., Pannu H.S.	Bhattacharya, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pannu, H.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Expert Systems with Applications	2021	9574174
4077	A multilevel inverter structure with open circuit fault-tolerant capability	Dewangan N.K., Tailor T.K., Agrawal R., Bhatnagar P., Gupta K.K.	Dewangan, N.K., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, India; Tailor, T.K., Department of Electrical Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Agrawal, R., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2021	9487921
4078	Blockchain for Diamond Industry: Opportunities and Challenges	Thakker U., Patel R., Tanwar S., Kumar N., Song H.	Thakker, U., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Patel, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Song, H., Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, The Department of Computer Science, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia, The School of Computing, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Electrical Engineering and Computer Science, Security and Optimization for Networked Globe Laboratory, Embry-Riddle Aeronautical University, Daytona Beach, FL, United States; Song, H., Department of Electrical Engineering and Computer Science, Security and Optimization for Networked Globe Laboratory, Embry-Riddle Aeronautical University, Daytona Beach, FL, United States	IEEE Internet of Things Journal	2021	23274662
4079	Security and privacy solutions in edge envisioned connected things environment	Aujla G.S., Kumar N., Sikdar B., Choo K.-K.R.	Aujla, G.S., Department of Computer Science, Durham University, Durham, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sikdar, B., Department of Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore; Choo, K.-K.R., Department of Information Systems and Cyber Security, The University of Texas at San Antonio, San Antonio, TX, United States	Transactions on Emerging Telecommunications Technologies	2021	21615748
4080	Design of Atangana–Baleanu–Caputo fractional-order digital filter	Gupta A., Kumar S.	Gupta, A., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Kumar, S., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India	ISA Transactions	2021	190578
4081	Secrecy Rate Maximization in Virtual-MIMO Enabled SWIPT for 5G Centric IoT Applications	Jaiswal A., Kumar S., Kaiwartya O., Kumar N., Song H., Lloret J.	Jaiswal, A., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kumar, S., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kaiwartya, O., Department of Computer Science, Nottingham Trent University, Nottingham, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Song, H., Department of Electrical Engineering and Computer Science, Embry-Riddle Aeronautical University, Daytona Beach, FL, United States; Lloret, J., University at Politcnica de Valencia, Valencia, Spain	IEEE Systems Journal	2021	19328184
4082	Correction to: The consequences of coronavirus outbreak on commodity markets (Environment, Development and Sustainability, (2021), 23, 5, (6564-6575), 10.1007/s10668-020-00934-4)	Rajput H., Changotra R., Rajput P., Gautam S., Gollakota A.R.K., Arora A.S.	Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, P., Central Scientific Instruments Organization, Sector 30C, Chandigarh, 160030, India; Gautam, S., Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; Gollakota, A.R.K., Department of Safety, Health & Environmental Engineering, National Yunlin University of Science and Technology, Douliou, Yunlin 64002, Taiwan; Arora, A.S., School of Chemical Engineering, Yeungnam University, Gyeongsan, 38541, South Korea	Environment, Development and Sustainability	2021	1387585X
4083	Design of Optimal FIR Filters Using Integrated Optimization Technique	Mittal T.	Mittal, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Circuits, Systems, and Signal Processing	2021	0278081X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4084	Deciphering role of inter and intricacy human dispersal on epidemic spread via coupled reaction-diffusion models	Aziz-Alaoui M.A., Roy P.	Aziz-Alaoui, M.A., Normandy Univ, UNIHAVRE, LMAH, FR-CNRS-3335, ISCN, Le Havre, 76600, France; Roy, P., Normandy Univ, UNIHAVRE, LMAH, FR-CNRS-3335, ISCN, Le Havre, 76600, France, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Applied Mathematics and Computing	2021	15985865
4085	URJA: Usage Jammer as a Resource Allocation for Secure Transmission in a CR-NOMA-Based 5G Femtocell System	Budhiraja I., Kumar N., Tyagi S., Tanwar S., Obaidat M.S.	Budhiraja, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Tyagi, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, Sharjah, United Arab Emirates	IEEE Systems Journal	2021	19328184
4086	A Probabilistic Data Structures-Based Anomaly Detection Scheme for Software-Defined Internet of Vehicles	Garg S., Singh A., Aujja G.S., Kaur S., Batra S., Kumar N.	Garg, S., Electrical Engineering Department, École de Technologie Supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Singh, A., Computer Science and Engineering Department, National Institute of Technology, Jalandhar, 144805, India; Aujja, G.S., School of Computing, Newcastle University, Newcastle upon Tyne, NE4 5TG, United Kingdom; Kaur, S., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Batra, S., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147001, India	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
4087	SecRIP: Secure and reliable intercluster routing protocol for efficient data transmission in flying ad hoc networks	Bhardwaj V., Kaur N., Vashisht S., Jain S.	Bhardwaj, V., Sri Guru Granth Sahib World University, Punjab, India; Kaur, N., Sri Guru Granth Sahib World University, Punjab, India; Vashisht, S., Department of Computer Science and Engineering, Shree Guru Gobind Singh Tricentenary University, Gurugram, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, India	Transactions on Emerging Telecommunications Technologies	2021	21615748
4088	Cuckoo inspired stacking ensemble framework for content-based cybercrime detection in online social networks	Singh A., Kaur M.	Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaur, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Transactions on Emerging Telecommunications Technologies	2021	21615748
4089	A Review of Segmentation Algorithms Applied to B-Mode Breast Ultrasound Images: A Characterization Approach	Kriti, Virmani J., Agarwal R.	Kriti, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Virmani, J., CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, 160030, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Archives of Computational Methods in Engineering	2021	11343060
4090	The Number of Confirmed Cases of Covid-19 by using Machine Learning: Methods and Challenges	Ahmad A., Garhwal S., Ray S.K., Kumar G., Malebary S.J., Barukab O.M.	Ahmad, A., College of Information Technology, United Arab Emirates University, Al Ain, United Arab Emirates; Garhwal, S., Department of Computer Science and Engineering, Thapar University, Patiala, India; Ray, S.K., Department of Information Technology, Khawarizmi International College, Al Ain, United Arab Emirates; Kumar, G., Department of Physics, Indian Institute of Technology Guwahati, Guwahati, Assam 781039, India; Malebary, S.J., Faculty of Computing and Information Technology, King Abdulaziz University, P.O. Box 411, Rabigh, Jeddah 21911, Saudi Arabia; Barukab, O.M., Faculty of Computing and Information Technology, King Abdulaziz University, P.O. Box 411, Rabigh, Jeddah 21911, Saudi Arabia	Archives of Computational Methods in Engineering	2021	11343060
4091	Extended visual cryptography-based copyright protection scheme for multiple images and owners using LBP-SURF descriptors	Kukreja S., Kasana G., Kasana S.S.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Visual Computer	2021	1782789
4092	Effect of Pre and Post Tempering on Hole Quality of Float Glass Specimen: for Rotary Ultrasonic and Conventional Drilling	Sharma A., Jain V., Gupta D.	Sharma, A., Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Silicon	2021	1876990X
4093	Analytical Model for Drain Current of a Ballistic MOSFET	Chatterjee A.K., Kushwaha M., Prasad B.	Chatterjee, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University), Patiala, Punjab, India; Kushwaha, M., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University), Patiala, Punjab, India; Prasad, B., Department of Electronic Science, Kurukshetra University, Kurukshetra, Haryana, India	Silicon	2021	1876990X
4094	Synthesis, Characterization and Bioactivity of Fluoride Containing Borosilicate Glass Matrix Composite	Bansal N., Arora A., Danewalia S.S., Singh K.	Bansal, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Danewalia, S.S., Division of Research and Development, Lovely Professional University, Jalandhar, 144411, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Silicon	2021	1876990X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4095	Machine Translation Systems for Indian Languages: Review of Modelling Techniques, Challenges, Open Issues and Future Research Directions	Singh M., Kumar R., Chana I.	Singh, M., Language Engineering and Machine Learning Research Lab, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Kumar, R., Language Engineering and Machine Learning Research Lab, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Chana, I., CSED, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India	Archives of Computational Methods in Engineering	2021	11343060
4096	Preparation and characterization of polypropylene/polylactide blends and nanocomposites and their biodegradation study	Mandal D.K., Bhunia H., Bajpai P.K., Chaudhari C.V., Dubey K.A., Varshney L., Kumar A.	Mandal, D.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Bajpai, P.K., Department of Chemical Engineering, Thapar University, Patiala, Punjab, India; Chaudhari, C.V., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India; Dubey, K.A., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India; Varshney, L., Radiation Technology Development Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India; Kumar, A., Department of Biotechnology, Thapar University, Patiala, Punjab, India	Journal of Thermoplastic Composite Materials	2021	8927057
4097	Green smart building: Requisites, architecture, challenges, and use cases	Pramanik P.K.D., Mukherjee B., Pal S., Pal T., Singh S.P.	Pramanik, P.K.D., National Institute of Technology Durgapur, India; Mukherjee, B., Bengal Institute of Technology, India; Pal, S., Bengal Institute of Technology, India; Pal, T., Bengal Institute of Technology, India; Singh, S.P., Thapar Institute of Engineering and Technology, India	Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture	2021	
4098	Fe-TiO ₂ Composite Mediated the Hybrid Effect of Photocatalysis and Photo-Fenton for the Inactivation of Escherichia coli Using a Continuous Flow Recirculation Reactor	Thakur I., Verma A., Örmeci B.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada	Industrial and Engineering Chemistry Research	2021	8885885
4099	Dual nanozyme characteristics of iron oxide nanoparticles alleviate salinity stress and promote the growth of an agroforestry tree.: Eucalyptus tereticornis Sm.	Singh D., Sillu D., Kumar A., Agnihotri S.	Singh, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India; Sillu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India; Kumar, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India, TIFAC Centre of Relevance and Excellence (CORE) in Agro and Industrial Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab, 147004, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management Kundli, Sonapat, Haryana, 131028, India	Environmental Science: Nano	2021	20518153
4100	Development of single-layered, wide-angle, polarisation-insensitive metamaterial absorber	Sharma A., Panwar R., Khanna R.	Sharma, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Panwar, R., Discipline of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, 482005, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Defence Science Journal	2021	0011748X
4101	Dissipative soliton dynamics and switching in split ring resonator based metamaterial with multi-photon absorption and diffusion	Sharma N., Jana S.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physics Letters, Section A: General, Atomic and Solid State Physics	2021	3759601
4102	Structural and electrical properties of lead-free (1-x)Bi _{0.5} Na _{0.5} TiO ₃ -xNi _{0.5} Zn _{0.5} Fe ₂ O ₄ based magnetoelectric composites	Singh P., Kolte J., Sharma P.	Singh, P., Thapar Institute of Engineering and Technology, School of Physics and Materials Science, Patiala, Punjab 147001, India; Kolte, J., Thapar Institute of Engineering and Technology, School of Physics and Materials Science, Patiala, Punjab 147001, India; Sharma, P., Thapar Institute of Engineering and Technology, School of Physics and Materials Science, Patiala, Punjab 147001, India	IEEE International Symposium on Applications of Feeroelectric, ISAF 2021, International Symposium on Integrated Functionalities, ISIF 2021 and Piezoresponse Force Microscopy Workshop, PFM 2021 - Proceedings	2021	
4103	Energy loss straggling and subsequent higher order parameters in silver metallic foils	Rani S., Kumar S., Sharma P., Khan S.A., Diwan P.K.	Rani, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Kumar, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Sharma, P., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Khan, S.A., Inter University Accelerator Centre, P.O. Box 10502, New Delhi, 110 067, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms	2021	0168583X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4104	Day-ahead optimal reactive power ancillary service procurement under dynamic multi-objective framework in wind integrated deregulated power system	Sharma A., Jain S.K.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Energy	2021	3605442
4105	Photoelectrocatalysis as a high-efficiency platform for pulping wastewater treatment and energy production	Rajput H., Kwon E.E., Younis S.A., Weon S., Jeon T.H., Choi W., Kim K.-H.	Rajput, H., School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kwon, E.E., Department of Environment and Energy, Sejong University, Seoul, 05006, South Korea; Younis, S.A., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea, Analysis and Evaluation Department, Egyptian Petroleum Research Institute, Nasr City 11727, Cairo, Egypt; Weon, S., School of Health and Environmental Science, Korea University, Seoul, 02841, South Korea; Jeon, T.H., Division of Environmental Science and Engineering, Pohang University of Science and Technology (POSTECH), Pohang, 37673, South Korea; Choi, W., Division of Environmental Science and Engineering, Pohang University of Science and Technology (POSTECH), Pohang, 37673, South Korea; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04763, South Korea	Chemical Engineering Journal	2021	13858947
4106	Residual solvent minimization in polystyrene-p-xylene coatings using a nonvolatile additive	Rawat M., Ahuja S.	Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India	Journal of Applied Polymer Science	2021	218995
4107	A review paper on downtime corrosion in boilers during lockdown due to COVID-19 in India	Bhagria B.K., Mudgal D., Sidhu S.S., Verma R.	Bhagria, B.K., Department of Mechanical Engineering Punjabi University, Patiala, Punjab, 147002, India; Mudgal, D., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Sidhu, S.S., Department of Mechanical Engineering Punjabi University, Patiala, Punjab, 147002, India; Verma, R., Department of Mechanical Engineering Punjabi University, Patiala, Punjab, 147002, India	AIP Conference Proceedings	2021	0094243X
4108	Performance analysis of bare SS-304 using silt of size 350-450 μ m at varying speed and at particular silt concentration	Kumar R., Kumar S., Mudgal D.	Kumar, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand, 831014, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2021	0094243X
4109	Present scenario of hot corrosion studies performed with ferritic steel	Bhagria B.K., Mudgal D., Sidhu S.S., Verma R.	Bhagria, B.K., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, 147002, India; Mudgal, D., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Sidhu, S.S., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, 147002, India; Verma, R., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, 147002, India	AIP Conference Proceedings	2021	0094243X
4110	Experimentally observed thermal conductivities for Al ₂ O ₃ , CNT, and CuO nanoparticles with water-EG based fluids	Sandhu H., Gangacharyulu D., Singh M.K., Kumar S.	Sandhu, H., Chandigarh University, Punjab, India; Gangacharyulu, D., Thapar Institute of Engineering and Technology, Punjab, India; Singh, M.K., Shri Vishwakarma Skill University, Haryana, India; Kumar, S., National Institute of Technology, Jamshedpur, Jharkhand, India	AIP Conference Proceedings	2021	0094243X
4111	PH dependence leaching characteristics of bottom ash	Kumar S., Kumar S., Singh P., Singh V., Singh H., Singh G.	Kumar, S., Mechanical Engineering Department, National Institution of Technology, Jamshedpur, India; Kumar, S., Mechanical Engineering Department, National Institution of Technology, Jamshedpur, India; Singh, P., Mechanical Engineering Department, SLIET, Longowal, Sangrur, Punjab, India; Singh, V., Mechanical Engineering Departments, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H., Mechanical Engineering Departments, Thapar Institute of Engineering and Technology, Patiala, India; Singh, G., Department of Mechanical Engineering, Chandigarh University, Chandigarh, India	AIP Conference Proceedings	2021	0094243X
4112	Slurry flow characteristics numerically analysed using sand water mixture	Singh V., Kumar S., Ratha D.	Singh, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Mechanical Engineering Department, National Institution of Technology, Jamshedpur, Jharkhand, 831014, India; Ratha, D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2021	0094243X
4113	Effect of solid concentration on pressure drop characteristics in slurry pipeline using CFD	Kumar S., Singh M.K., Ratha D.N., Sandhu H., Prasad S.B.	Kumar, S., Kalinga Institute of Industrial Technology, Bhubaneswar, India; Singh, M.K., Shri Vishwakarma Skill University, Haryana, India; Ratha, D.N., Thapar Institute of Engineering and Technology, Punjab, India; Sandhu, H., National Institute of Technology, Jamshedpur, Jharkhand, India; Prasad, S.B., Chandigarh University, Punjab, India	AIP Conference Proceedings	2021	0094243X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4114	UAV-Assisted 5G/6G networks: Joint scheduling and resource allocation based on asynchronous reinforcement learning	Yang H., Zhao J., Nie J., Kumar N., Lam K.-Y., Xiong Z.	Yang, H., Nanyang Technological University, Strategic Centre for Research in Privacy-Preserving Technologies and Systems, Singapore; Zhao, J., Nanyang Technological University, Strategic Centre for Research in Privacy-Preserving Technologies and Systems, Singapore, Nanyang Technological University, School of Computer Science and Engineering, Singapore; Nie, J., Nanyang Technological University, School of Computer Science and Engineering, Singapore; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Lam, K.-Y., Nanyang Technological University, Strategic Centre for Research in Privacy-Preserving Technologies and Systems, Singapore, Nanyang Technological University, School of Computer Science and Engineering, Singapore; Xiong, Z., Pillar of Information Systems Technology and Design, Singapore University of Technology and Design, Singapore	IEEE INFOCOM 2021 - IEEE Conference on Computer Communications Workshops, INFOCOM WKSHPs 2021	2021	
4115	Thermal and environmental impact analysis of rice husk ash-based mortar as insulating wall plaster	Selvaranjan K., Navaratnam S., Gamage J.C.P.H., Thamboo J., Siddique R., Zhang J., Zhang G.	Selvaranjan, K., Department of Civil Engineering, University of Moratuwa, Sri Lanka; Navaratnam, S., School of Engineering, RMIT University, Australia; Gamage, J.C.P.H., Department of Civil Engineering, University of Moratuwa, Sri Lanka; Thamboo, J., Department of Civil Engineering, South Eastern University of Sri Lanka, Oluvil, 32360, Sri Lanka; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Zhang, J., School of Engineering, RMIT University, Australia; Zhang, G., School of Engineering, RMIT University, Australia	Construction and Building Materials	2021	9500618
4116	Independent and mixed transmission of 166.5 Gb/s PM-8QAM and 222 Gb/s PM-16QAM Nyquist-wavelength division multiplexed superchannel for long-haul metro network	Sachan S., Sharma D., Prajapati Y.K., Tripathi R.	Sachan, S., Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India; Sharma, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Prajapati, Y.K., Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India; Tripathi, R., Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India	International Journal of Communication Systems	2021	10745351
4117	Fluorescence imaging of surface-versatile latent fingerprints at the second and third level using double ES IPT-based AIE fluorophore	Ahmad M., Kumar G., Luxami V., Kaur S., Singh P., Kumar S.	Ahmad, M., Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, S., Department of Botanical and Environment Science, Guru Nanak Dev University, Amritsar, 143005, India; Singh, P., Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Kumar, S., Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	New Journal of Chemistry	2021	11440546
4118	Effect of machining parameters on average surface roughness Ra while turning hybrid Mg-MMC-An experimental approach	Hira J., Manna A., Gera P., Sharma R., Kumar V.	Hira, J., Amity University Noida, Uttar Pradesh, India; Manna, A., Mechanical Engineering Department, Pec, University of Technology Chandigarh, India; Gera, P., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R., Amity University Noida, Uttar Pradesh, India; Kumar, V., Department of Automotive Technology Mechanical Department Division, Federal Tvet Institute, Addis Ababa, Ethiopia	Journal of Physics: Conference Series	2021	17426588
4119	Finite Element Analysis and Dynamic Response of Graphene-Based Nanocomposite: For Low Velocity Impacts Applications	Nauriyal S., Choudhary T., Gupta V., Khas K.S.	Nauriyal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Choudhary, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khas, K.S., Product and Industrial Design Department, Lovely Professional University, Phagwara, Punjab, India	Strength of Materials	2021	392316
4120	Power exchange dynamics for performance optimization in a miniature plasmonic waveguide coupler	Mishra M., Jhajharia P., Jana S.	Mishra, M., Department of Physics, SLAS, Mody University of Science and Technology, Lakshmgangarh, Sikar, Raj, 332311, India; Jhajharia, P., Department of Physics, SLAS, Mody University of Science and Technology, Lakshmgangarh, Sikar, Raj, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Optoelectronics and Advanced Materials, Rapid Communications	2021	18426573
4121	Artificial Intelligence Technologies for COVID-19-Like Epidemics: Methods and Challenges	Zhang P., Wang C., Kumar N., Jiang C., Lu Q., Choo K.-K.R., Rodrigues J.J.P.C.	Zhang, P., China University of Petroleum (East China), China; Wang, C., China University of Petroleum (East China), China; Kumar, N., Thapar Institute of Engineering Technology, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India; Jiang, C., Tsinghua University, China; Lu, Q., Data61, CSIRO, Australia; Choo, K.-K.R., University of Texas at San Antonio, United States; Rodrigues, J.J.P.C., Federal University of Piauí (UFPI) and Instituto de Telecomunicações, Brazil	IEEE Network	2021	8908044
4122	Network selection in wireless heterogeneous environment based on available bandwidth estimation	Ahuja K., Singh B., Khanna R.	Ahuja, K., Department of Electronics and Communication Engineering, DAV Institute of Engineering and Technology, Jalandhar, Punjab, India; Singh, B., Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra, Haryana, India; Khanna, R., Electronics and Communication Engineering Department, Thapar University, Patiala, Punjab, India	Recent Advances in Computer Science and Communications	2021	26662558
4123	Effect of Reaction Parameters on the Synthesis of Colloidal Copper Nanoparticles by Chemical Reduction Method	Sharma P., Goyal D., Chudasama B.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, 147004, India	Colloid Journal	2021	1061933X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4124	Thermal effects in hot and dilute homogeneous asymmetric nuclear matter	Parmar V., Sharma M.K., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Institute of Physics, Bhubaneswar, 751005, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Institute of Physics, Bhubaneswar, 751005, India; Patra, S.K., Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400 085, India	Physical Review C	2021	24699985
4125	A single column plasma photonic crystal (SC-PPC)	Kamboj G.K., Yadav R.P., Kaler R.S.	Kamboj, G.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Yadav, R.P., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaler, R.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Physics of Plasmas	2021	1070664X
4126	Particle creation and annihilation in a dynamically disordered totally asymmetric simple exclusion process	Garg S., Dhiman I.	Garg, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India; Dhiman, I., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147001, India	Physical Review E	2021	24700045
4127	Emotion recognition: An evaluation of ERP features acquired from frontal EEG electrodes	Singh M.I., Singh M.	Singh, M.I., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Sciences (Switzerland)	2021	20763417
4128	Early Collision Detection for Massive Random Access in Satellite-Based Internet of Things	Zhen L., Zhang Y., Yu K., Kumar N., Barnawi A., Xie Y.	Zhen, L., ShaanxiKey Laboratory of Information CommunicationNetwork and Security, Xi'an University of Posts and Telecommunications, Xi'an, 710061, China; Zhang, Y., ShaanxiKey Laboratory of Information CommunicationNetwork and Security, Xi'an University of Posts and Telecommunications, Xi'an, 710061, China; Yu, K., Global Information and Telecommunication Institute, Waseda University, Tokyo, 169-8555, Japan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University Taiwan and School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Barnawi, A., Faculty of Computing and IT, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Xie, Y., ShaanxiKey Laboratory of Information CommunicationNetwork and Security, Xi'an University of Posts and Telecommunications, Xi'an, 710061, China	IEEE Transactions on Vehicular Technology	2021	189545
4129	A fusion framework based on cepstral domain features from phonocardiogram to predict heart health status	Arora S., Jain S., Chana I.	Arora, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Mechanics in Medicine and Biology	2021	2195194
4130	Effect of TiO ₂ doping on structural and electrical properties of melt-quench V ₂ -xTi _x O ₅ -6, 0.15 ≤ x ≤ 0.30 systems	Khan S., Singh K.	Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2021	9574522
4131	PFIN: An Efficient Particle Filter-Based Indoor Navigation Framework for UAVs	Raja G., Suresh S., Anbalagan S., Ganapathisubramaniyan A., Kumar N.	Raja, G., NGNLab, Department of Computer Technology, Anna University, Chennai, 600025, India; Suresh, S., NGNLab, Department of Computer Technology, Anna University, Chennai, 600025, India; Anbalagan, S., School of Computer Science and Engineering, Vellore Institute of Technology, Chennai, 632014, India; Ganapathisubramaniyan, A., Foreign Exchange and Local Markets Group, Citicorp Service India Private Ltd., Chennai, 600113, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147005, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India	IEEE Transactions on Vehicular Technology	2021	189545
4132	Evidence for Spin-Glass Freezing in NiO Nanoparticles by Critical Dynamic Scaling	Kaur N., Tiwari S.D.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Superconductivity and Novel Magnetism	2021	15571939
4133	Comparative statement for diametric delamination in drilling of cortical bone with conventional and ultrasonic assisted drilling techniques	Singh G., Babbar A., Jain V., Gupta D.	Singh, G., Thapar Institute of Engineering & Technology (Deemed University), Patiala, 147004, India; Babbar, A., Thapar Institute of Engineering & Technology (Deemed University), Patiala, 147004, India, Guru Gobind Singh Tricentenary University, Gurugram, 122505, India; Jain, V., Thapar Institute of Engineering & Technology (Deemed University), Patiala, 147004, India; Gupta, D., Thapar Institute of Engineering & Technology (Deemed University), Patiala, 147004, India	Journal of Orthopaedics	2021	0972978X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4134	Enhancing the Hydrogen Evolution Properties of Kesterite Absorber by Si-Doping in the Surface of CZTS Thin Film	Vishwakarma M., Kumar M., Hendrickx M., Hadermann J., Singh A.P., Batra Y., Mehta B.R.	Vishwakarma, M., Thin Film Laboratory, Department of Physics, IIT Delhi, New Delhi, 110016, India; Kumar, M., School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Hendrickx, M., EMAT, University of Antwerp, Groenenborgerlaan 171, Antwerp, B-2020, Belgium; Hadermann, J., EMAT, University of Antwerp, Groenenborgerlaan 171, Antwerp, B-2020, Belgium; Singh, A.P., Department of Electronics & Nanoengineering, Aalto University, Espoo, 02150, Finland; Batra, Y., J. C. Bose University of Science and Technology, YMCA, Faridabad, 121006, India; Mehta, B.R., Thin Film Laboratory, Department of Physics, IIT Delhi, New Delhi, 110016, India	Advanced Materials Interfaces	2021	21967350
4135	An approach based on combining Choquet integral and TOPSIS methods to uncertain MAGDM problems	Keikha A., Garg H., Mishmast Nehi H.	Keikha, A., Department of Mathematics, Velayat University, Iranshahr, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Mishmast Nehi, H., Department of Mathematics, University of Sistan and Baluchestan, Zahedan, Iran	Soft Computing	2021	14327643
4136	Prediction based task scheduling approach for floodplain application in cloud environment	Kaur G., Bala A.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India	Computing	2021	0010485X
4137	NHCDDRA: a non-uniform hierarchical clustering with dynamic route adjustment for mobile sink based heterogeneous wireless sensor networks	Jain S.K., Venkatadari M., Shrivastava N., Jain S., Verma R.K.	Jain, S.K., Amity School of Engineering and Technology, Amity University, Gwalior, India; Venkatadari, M., Amity School of Engineering and Technology, Amity University, Gwalior, India; Shrivastava, N., Rustamji Institute of Technology, BSF Academy, Gwalior, India; Jain, S., Indian Institute of Information Technology, Bhopal, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, R.K., Department of Computer Science Engineering, Bennett University, Greater Noida, India	Wireless Networks	2021	10220038
4138	A low-power high-resolution dynamic voltage comparator with input signal dependent power down technique	Gupta A., Singh A., Agarwal A.	Gupta, A., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	AEU - International Journal of Electronics and Communications	2021	14348411
4139	Intrusion detection in cyber-physical systems using a generic and domain specific deep autoencoder model	Thakur S., Chakraborty A., De R., Kumar N., Sarkar R.	Thakur, S., Department of Computer Science and Engineering, Indian Institute of Technology, Powai, Mumbai, 400076, India; Chakraborty, A., Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Road, Kolkata, 700032, India; De, R., Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Road, Kolkata, 700032, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Department of Computer Science and Information Engineering, Asia University, Taiwan; Sarkar, R., Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Road, Kolkata, 700032, India	Computers and Electrical Engineering	2021	457906
4140	An enhanced energy proficient clustering (EEPC) algorithm for relay selection in heterogeneous WSNs	Guleria K., Verma A.K., Goyal N., Sharma A.K., Benslimane A., Singh A.	Guleria, K., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Verma, A.K., Thapar Institute of Engineering and Technology Punjab 147004, India; Goyal, N., Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; Sharma, A.K., Dr. B. R. Ambedkar National Institute of Technology Punjab 144011, India; Benslimane, A., Computer Science and Engineering, University of Avignon, Avignon, 84029, France; Singh, A., Computer Science and Engineering, Lovely Professional University, Punjab, 144411, India	Ad Hoc Networks	2021	15708705
4141	Corrigendum to "Design and modelling of a self-dispersing twisted pipe to mitigate settling in coal water suspension" [Adv. Powder Technol. 32(2) (2021) 317–336] (Advanced Powder Technology (2021) 32(2) (317–336), (S0921883120305513), (10.1016/j.apt.2020.12.012))	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand 831014, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Advanced Powder Technology	2021	9218831
4142	Comprehensive review of nonisolated bridgeless power factor converter topologies	Singh A.K., Mishra A.K., Gupta K.K., Kim T.	Singh, A.K., Department of Electrical and Instrumentation Engineering TIET, Patiala, India; Mishra, A.K., Electrical and Computer Engineering, University of Michigan Dearborn, Dearborn, MI, United States; Gupta, K.K., Department of Electrical and Instrumentation Engineering TIET, Patiala, India; Kim, T., Electrical and Computer Engineering, University of Michigan Dearborn, Dearborn, MI, United States	IET Circuits, Devices and Systems	2021	1751858X
4143	Multivalued problems via orthogonal contraction mappings with application to fractional differential equation	Chandok S., Sharma R.K., Radenović S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Radenović, S., Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, Beograd 35, 11120, Serbia	Journal of Fixed Point Theory and Applications	2021	16617738

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4144	An efficient ANFIS based pre-harvest ripeness estimation technique for fruits	Kaur S., Randhawa S., Malhi A.	Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Randhawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Malhi, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
4145	Design and development of rigid coaxial line based variable stub tuner	Jain A., Yadav R.P.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, India	Frequenz	2021	161136
4146	Copyright protection scheme for color images using extended visual cryptography	Kukreja S., Kasana G., Kasana S.S.	Kukreja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Computers and Electrical Engineering	2021	457906
4147	An Efficient and Secure Certificate-Based Access Control and Key Agreement Scheme for Flying Ad-Hoc Networks	Khan M.A., Ullah I., Kumar N., Oubbati O.S., Qureshi I.M., Noor F., Ullah Khanzada F.	Khan, M.A., ISRA University, Hamdard Institute of Engineering and Technology, Islamabad, 44000, Pakistan; Ullah, I., Hamdard Institute of Engineering and Technology, Islamabad, 44000, Pakistan; Kumar, N., CSED, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taiwan; Oubbati, O.S., Electronics Department, University of Laghouat, Laghouat, Algeria; Qureshi, I.M., Electrical Engineering Department, Air University, Islamabad, Pakistan; Noor, F., Faculty of Computer Science and Information Systems, Islamic University of Madinah; Ullah Khanzada, F., Descon Engineering Limited, Lahore, Pakistan	IEEE Transactions on Vehicular Technology	2021	189545
4148	Joint optimization of service chain caching and task offloading in mobile edge computing	Peng K., Nie J., Kumar N., Cai C., Kang J., Xiong Z., Zhang Y.	Peng, K., Huazhong University of Science and Technology, China; Nie, J., Nanyang Technological University, Singapore; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, School of Computer Science, University of Petroleum and Energy Studies (UPES), Energy Acres Dehradun248007, India; Cai, C., Huazhong University of Science and Technology, China; Kang, J., Nanyang Technological University, Singapore; Xiong, Z., Singapore University of Technology and Design, Singapore; Zhang, Y., Wuhan University of Technology, China	Applied Soft Computing	2021	15684946
4149	Blockchain-based scheme for the mobile number portability	Shah J., Agarwal S., Shukla A., Tanwar S., Tyagi S., Kumar N.	Shah, J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Agarwal, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Shukla, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, 382481, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India; Kumar, N., Department of CSE, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia, School of Computing, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	Journal of Information Security and Applications	2021	22142134
4150	Wear behavior of microwave-processed Ni-WC8Co-based functionally graded materials	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutes, Ludhiana, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2021	14644207
4151	Compact cross-shaped parasitic strip based multiple-input multiple-output (MIMO) dielectric resonator antenna for ultra-wideband (UWB) applications	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaur, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Frequenz	2021	161136
4152	Reconfigurable Rounding Based Approximate Multiplier for Energy Efficient Multimedia Applications	Garg B., Patel S.	Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Patel, S., Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2021	9296212
4153	Short review on recent progress in Mn ⁴⁺ -activated oxide phosphors for indoor plant light-emitting diodes	Dhoble S.J., Priya R., Dhoble N.S., Pandey O.P.	Dhoble, S.J., Department of Physics, R.T.M. Nagpur University, Nagpur, India; Priya, R., Functional Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Dhoble, N.S., Department of Chemistry, Sevalal Mahila Mahavidyalaya, Nagpur, India; Pandey, O.P., Functional Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Luminescence	2021	15227235

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4154	Class-AB Flipped Voltage Follower Cell with High Current Driving Capability and Low Output Resistance for High Frequency Applications	Jindal C., Pandey R.	Jindal, C., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
4155	Biodegradation kinetic modeling of pro-oxidant filled polypropylene composites under thermophilic composting conditions after abiotic treatment	Sable S., Ahuja S., Bhunia H.	Sable, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, Punjab, India	Environmental Science and Pollution Research	2021	9441344
4156	Role of nutraceuticals in health promotion and disease prevention: A review in the Indian context	Chhabra S., Bakshi A., Kaur R.	Chhabra, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bakshi, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Current Topics in Nutraceutical Research	2021	15407535
4157	Closed-Form Analytical Formulation for Riemann–Liouville-Based Fractional-Order Digital Differentiator Using Fractional Sample Delay Interpolation	Gupta A., Kumar S.	Gupta, A., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Circuits, Systems, and Signal Processing	2021	0278081X
4158	Two-level pruning based ensemble with abstained learners for concept drift in data streams	Goel K., Batra S.	Goel, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Expert Systems	2021	2664720
4159	Application of mutation operators to salp swarm algorithm	Salgotra R., Singh U., Singh G., Singh S., Gandomi A.H.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, G., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Gandomi, A.H., Faculty of Engineering and Information Technology, University of Technology Sydney, Australia	Expert Systems with Applications	2021	9574174
4160	The potential use of drinking water sludge ash as supplementary cementitious material in the manufacture of concrete blocks	Liu Y., Zhuge Y., Chow C.W.K., Keegan A., Pham P.N., Li D., Oh J.-A., Siddique R.	Liu, Y., University of South Australia, UniSA STEM, ScaRCE, SA 5000, Australia; Zhuge, Y., University of South Australia, UniSA STEM, ScaRCE, SA 5000, Australia; Chow, C.W.K., University of South Australia, UniSA STEM, ScaRCE, SA 5000, Australia; Keegan, A., South Australian Water Corporation, Adelaide, SA 5000, Australia; Pham, P.N., Faculty of Bridge and Road Engineering, The University of Danang-University of Science and Technology, 54 Nguyen Luong Bang Str. Danang, Viet Nam; Li, D., University of South Australia, UniSA STEM, ScaRCE, SA 5000, Australia; Oh, J.-A., University of South Australia, UniSA STEM, ScaRCE, SA 5000, Australia; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Resources, Conservation and Recycling	2021	9213449
4161	ANN-based energy consumption prediction model up to 2050 for a residential building: Towards sustainable decision making	Verma A., Prakash S., Kumar A.	Verma, A., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Prakash, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., Council of Scientific and Industrial Research – Central Building Research Institute (CSIR-CBRI), Roorkee, India	Environmental Progress and Sustainable Energy	2021	19447442
4162	Machine learning models and techniques for VANET based traffic management: Implementation issues and challenges	Khatri S., Vachhani H., Shah S., Bhatia J., Chaturvedi M., Tanwar S., Kumar N.	Khatri, S., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat, India; Vachhani, H., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat, India; Shah, S., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat, India; Bhatia, J., Department of Computer Engineering, Vishwakarma Government Engineering College, Gujarat, India; Chaturvedi, M., Department of Computer Science and Engineering, Indian Institute of Infrastructure Technology Research And Management (IITRAM), Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala India. Department of Computer Science and Information Engineering, Asia University, Taiwan. King Abdul Aziz University, Jeddah, Saudi Arabia	Peer-to-Peer Networking and Applications	2021	19366442
4163	Acoustic Emission Monitoring of RC Beams Corroded to Different Levels Under Flexural Loading	Garhwal S., Sharma S., Sharma S.K.	Garhwal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2021	2193567X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4164	Largest democracy in the world crippled by COVID-19: current perspective and experience from India	Changotra R., Rajput H., Rajput P., Gautam S., Arora A.S.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, P., Central Scientific Instruments Organization, Sector 30C, Chandigarh, 160030, India; Gautam, S., Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; Arora, A.S., School of Chemical Engineering, Yeungnam University, Gyeongsan, 38541, South Korea	Environment, Development and Sustainability	2021	1387585X
4165	A shock like no other: coronavirus rattles commodity markets	Rajput H., Changotra R., Rajput P., Gautam S., Gollakota A.R.K., Arora A.S.	Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, P., Central Scientific Instruments Organization, Sector 30C, Chandigarh, 160030, India; Gautam, S., Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu 641114, India; Gollakota, A.R.K., Department of Safety, Health & Environmental Engineering, National Yunlin University of Science and Technology, Douliou, Yunlin 64002, Taiwan; Arora, A.S., School of Chemical Engineering, Yeungnam University, Gyeongsan, 38541, South Korea	Environment, Development and Sustainability	2021	1387585X
4166	Current perspective of COVID-19 spread across South Korea: exploratory data analysis and containment of the pandemic	Arora A.S., Rajput H., Changotra R.	Arora, A.S., School of Chemical Engineering, Yeungnam University, Gyeongsan, 38541, South Korea; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environment, Development and Sustainability	2021	1387585X
4167	A Systematic Review of Hidden Markov Models and Their Applications	Mor B., Garhwal S., Kumar A.	Mor, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Archives of Computational Methods in Engineering	2021	11343060
4168	Synthesis of polyaniline/clay nanocomposites by in situ polymerization and its application for the removal of Acid Green 25 dye from wastewater	Kalotra S., Mehta R.	Kalotra, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mehta, R., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Polymer Bulletin	2021	1700839
4169	Network Analysis as a Computational Technique and Its Benefaction for Predictive Analysis of Healthcare Data: A Systematic Review	Toor R., Chana I.	Toor, R., Cloud and IoT Research Lab, CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., Cloud and IoT Research Lab, CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Archives of Computational Methods in Engineering	2021	11343060
4170	State-of-the-Art Segmentation Techniques and Future Directions for Multiple Sclerosis Brain Lesions	Kaur A., Kaur L., Singh A.	Kaur, A., Computer Science and Engineering Department, Punjabi University, Patiala, 147001, India; Kaur, L., Computer Science and Engineering Department, Punjabi University, Patiala, 147001, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Archives of Computational Methods in Engineering	2021	11343060
4171	Sign Language Recognition Systems: A Decade Systematic Literature Review	Wadhawan A., Kumar P.	Wadhawan, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Archives of Computational Methods in Engineering	2021	11343060
4172	Preface	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	Decision-Making with Neutrosophic Set: Theory and Applications in Knowledge Management	2021	
4173	Decision-making with neutrosophic set: Theory and applications in knowledge management	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	Decision-Making with Neutrosophic Set: Theory and Applications in Knowledge Management	2021	
4174	Influence of Al ³⁺ doping for V ⁵⁺ on the structural, optical, thermal and electrical properties of V _{2-x} Al _x O _{5-δ} (x=0-0.20) ceramics	Khan S., Singh K.	Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2021	2728842

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4175	Federated Learning Meets Human Emotions: A Decentralized Framework for Human-Computer Interaction for IoT Applications	Chhikara P., Singh P., Tekchandani R., Kumar N., Guizani M.	Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies (UPES), Dehradun, Uttarakhand, 248001, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Guizani, M., Department of Computer Science and Engineering, Qatar University, Doha, Qatar	IEEE Internet of Things Journal	2021	23274662
4176	Impact of Randomization on Ensembles for Streams with Concept Drift	Goel K., Batra S.	Goel, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala (Punjab), India	Journal of Physics: Conference Series	2021	17426588
4177	Efficient Adsorption of Doxycycline Hydrochloride Using Deep Eutectic Solvent Functionalized Activated Carbon Derived from Pumpkin Seed Shell	Kaur G., Singh N., Rajor A.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ChemistrySelect	2021	23656549
4178	A hybridized multi-algorithm strategy for engineering optimization problems	Salgotra R., Singh U., Singh S., Mittal N.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Mittal, N., Department of ECE, Chandigarh University, Mohali, India	Knowledge-Based Systems	2021	9507051
4179	No Reference Image Quality Assessment for JPEG Images using Machine Learning Approach	Bagade J.V., Dandawate Y.H., Singh K.	Bagade, J.V., Vishwakarma Institute of Information Technology, Department of Information Technology, Pune, Maharashtra, India; Dandawate, Y.H., Vishwakarma Institute of Information Technology, Department of Electronics and Telecommunication, Pune, Maharashtra, India; Singh, K., Thapar Institute of Engineering Technology, Department of Electronics and Telecommunication, Patiala, Punjab, India	2021 6th International Conference for Convergence in Technology, I2CT 2021	2021	
4180	An Automation Methodology for Amelioration of SpyGlassCDC Abstract View Generation Process	Sharma P., Patel S.K.	Sharma, P., Thapar Institute of Engineering and Technology, Ece Department, Patiala, 147004, India; Patel, S.K., Thapar Institute of Engineering and Technology, Ece Department, Patiala, 147004, India	2021 6th International Conference for Convergence in Technology, I2CT 2021	2021	
4181	Effective cloud resource utilisation in cloud erp decision-making process for industry 4.0 in the united states	Marinho M., Prakash V., Garg L., Savaglio C., Bawa S.	Marinho, M., Computer Science Department, The University of Liverpool, Liverpool, L69 3GH, United Kingdom; Prakash, V., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Garg, L., Computer Science Department, The University of Liverpool, Liverpool, L69 3GH, United Kingdom, Computer Information Systems, Faculty of Information and Communication Technology, University of Malta, Msida, MSD 2080, Malta; Savaglio, C., Institute for High Performance Computing and Networking (ICAR), National Research Council, Rende, 87036, Italy; Bawa, S., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Electronics (Switzerland)	2021	20799292
4182	Multi-attribute group decision-making process based on possibility degree and operators for intuitionistic multiplicative set	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Complex and Intelligent Systems	2021	21994536
4183	Generalized dice similarity measures for complex q-Rung Orthopair fuzzy sets and its application	Garg H., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan	Complex and Intelligent Systems	2021	21994536
4184	Fractional two-stage transshipment problem under uncertainty: application of the extension principle approach	Garg H., Mahmoodirad A., Niroomand S.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Mahmoodirad, A., Department of Mathematics, Islamic Azad University, Masjed-Soleiman Branch/Masjed-Soleiman, Iran; Niroomand, S., Department of Industrial Engineering, Firouzabad Institute of Higher Education, Fars, Firouzabad, Iran	Complex and Intelligent Systems	2021	21994536
4185	KIRTI: A Blockchain-Based Credit Recommender System for Financial Institutions	Patel S.B., Bhattacharya P., Tanwar S., Kumar N.	Patel, S.B., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India	IEEE Transactions on Network Science and Engineering	2021	23274697

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4186	Assessment of heat generation and its effect during cortical bone drilling using infrared camera and histology	Singh G., Jain V., Gupta D., Schlatterer D.R.	Singh, G., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, 147 004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, 147 004, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, 147 004, India; Schlatterer, D.R., Orthopaedic Trauma, Atlanta Medical Center, 303 Parkway Drive NE, Atlanta, GA 30312, United States	Indian Journal of Engineering and Materials Sciences	2021	9714588
4187	Performance of organic and inorganic functional groups as corrosion inhibitors in concrete experiencing extreme corrosive environment	Guleria H., Purnima, Tiwari A.K., Goyal S.	Guleria, H., Thapar Institute of Engineering and Technology, Patiala, India; Purnima, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Tiwari, A.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Indian Concrete Journal	2021	194565
4188	Ecotoxicity of as-synthesised copper nanoparticles on soil bacteria	Sharma P., Goyal D., Chudasama B.	Sharma, P., Department Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, D., Department Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India, Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, India	IET Nanobiotechnology	2021	17518741
4189	Mehar approach for finding shortest path in supply chain network	Bhatia T.K., Kumar A., Appadoo S.S., Gajpal Y., Sharma M.K.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, MB R3T-5V4, Canada; Gajpal, Y., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, MB R3T-5V4, Canada; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Sustainability (Switzerland)	2021	20711050
4190	Artificial intelligence based system: Improving the women menstrual hygiene	Sharma A., Kaur J.	Sharma, A., Thapar Institute of Engineering and Technology, India; Kaur, J., Thapar Institute of Engineering and Technology, India	Information Resources Management Journal	2021	10401628
4191	Nonlinear dynamical behavior of an SEIR mathematical model: Effect of information and saturated treatment	Das T., Srivastava P.K., Kumar A.	Das, T., Indian Institute of Technology Patna, Patna, 801103, India; Srivastava, P.K., Indian Institute of Technology Patna, Patna, 801103, India; Kumar, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chaos	2021	10541500
4192	Privacy-preserving implicit authentication protocol using cosine similarity for internet of things	Wei F., Vijayakumar P., Kumar N., Zhang R., Cheng Q.	Wei, F., Henan Key Laboratory of Network Cryptography Technology, Zhengzhou, 450001, China, State Key Laboratory of Mathematical Engineering and Advanced Computing, Zhengzhou, 450001, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, 604001, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, Department of Computing and Informatics, King Abdulaziz University, Jeddah, Saudi Arabia; Zhang, R., Henan Key Laboratory of Network Cryptography Technology, Zhengzhou, 450001, China, State Key Laboratory of Mathematical Engineering and Advanced Computing, Zhengzhou, 450001, China; Cheng, Q., Henan Key Laboratory of Network Cryptography Technology, Zhengzhou, 450001, China, State Key Laboratory of Mathematical Engineering and Advanced Computing, Zhengzhou, 450001, China	IEEE Internet of Things Journal	2021	23274662
4193	Blockchain-envisioned UAV communication using 6G networks: Open issues, use cases, and future directions	Aggarwal S., Kumar N., Tanwar S.	Aggarwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 41354, Taiwan, Upes, Dehradun, 248007, India, King Abdul Aziz University, Jeddah, Saudi Arabia; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India	IEEE Internet of Things Journal	2021	23274662

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4194	Resource-Ability Assisted Service Function Chain Embedding and Scheduling for 6G Networks with Virtualization	Cao H., Du J., Zhao H., Luo D.X., Kumar N., Yang L., Yu F.R.	Cao, H., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, China, Department of Computing, The Hong Kong Polytechnic University, Hong Kong; Du, J., School of Communications and Information Engineering, Shanxi Key Laboratory of Information Communication Network and Security, Xi'an University of Posts and Telecommunications, Xi'an, China; Zhao, H., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, China; Luo, D.X., School of Communications and Information Engineering, Shanxi Key Laboratory of Information Communication Network and Security, Xi'an University of Posts and Telecommunications, Xi'an, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan; Yang, L., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, China; Yu, F.R., Department of Systems and Computer Engineering, Carleton University, Ottawa, ON, Canada	IEEE Transactions on Vehicular Technology	2021	189545
4195	Scenedesmus acutus extracellular polysaccharides produced under increased concentration of sulphur and phosphorus exhibited enhanced proliferation of peripheral blood mononuclear cells	Patwal T., Baranwal M.	Patwal, T., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	3 Biotech	2021	2190572X
4196	Field-synchronized Digital Twin framework for production scheduling with uncertainty	Negri E., Pandhare V., Cattaneo L., Singh J., Macchi M., Lee J.	Negri, E., Department of Management, Politecnico di Milano, Economics and Industrial Engineering, Milan, Italy; Pandhare, V., Mechanical and Materials Engineering, College of Engineering and Applied Science, University of Cincinnati, Cincinnati, United States; Cattaneo, L., Department of Management, Politecnico di Milano, Economics and Industrial Engineering, Milan, Italy; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Macchi, M., Department of Management, Politecnico di Milano, Economics and Industrial Engineering, Milan, Italy; Lee, J., Mechanical and Materials Engineering, College of Engineering and Applied Science, University of Cincinnati, Cincinnati, United States	Journal of Intelligent Manufacturing	2021	9565515
4197	Performance evaluation of lead-free double-perovskite solar cell	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Optical Materials	2021	9253467
4198	Correction to: Hydrogen fuel and fuel cell technology for cleaner future: a review (Environmental Science and Pollution Research, (2021), 28, 13, (15607-15626), 10.1007/s11356-020-12231-8)	Singla M.K., Nijhawan P., Oberoi A.S.	Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Environmental Science and Pollution Research	2021	9441344
4199	Finite element simulation and integration of CEM43 °C and Arrhenius Models for ultrasonic-assisted skull bone grinding: A thermal dose model	Babbar A., Jain V., Gupta D., Agrawal D.	Babbar, A., Mechanical Engineering Department, Shree Guru Gobind Singh Tricentenary University, Gurugram, 122505, India, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Agrawal, D., Department of Neurosurgery, All India Institute of Medical Science (AIIMS), New Delhi, 110029, India	Medical Engineering and Physics	2021	13504533
4200	Dynamic Frequency Scaling for Low-Power Operation of a Single-Core Processor: A Radial Basis Function Approach	Thethi S.K., Kumar R.	Thethi, S.K., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, R., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2021	2193567X
4201	Histological evaluation of thermal damage to Osteocytes: A comparative study of conventional and ultrasonic-assisted bone grinding	Babbar A., Jain V., Gupta D., Agrawal D.	Babbar, A., Mechanical Engineering Department, Shree Guru Gobind Singh Tricentenary University, Gurugram, 122505, India, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Agrawal, D., Department of Neurosurgery, All India Institute of Medical Science (AIIMS), New Delhi, 110029, India	Medical Engineering and Physics	2021	13504533
4202	A comprehensive review on control techniques for stability improvement in microgrids	Mehta S., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Transactions on Electrical Energy Systems	2021	20507038

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4203	Recognition of online handwritten Gurmukhi characters using recurrent neural network classifier	Singh H., Sharma R.K., Singh V.P., Kumar M.	Singh, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India; Sharma, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, V.P., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India	Soft Computing	2021	14327643
4204	Structural framework effect of various CeO ₂ -loaded zeolites on the adsorptive removal of fipronil	Rathi A., Basu S., Barman S.	Rathi, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, India	Journal of Environmental Chemical Engineering	2021	22133437
4205	An intrusion detection system using optimized deep neural network architecture	Ramaiah M., Chandrasekaran V., Ravi V., Kumar N.	Ramaiah, M., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, India; Chandrasekaran, V., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, India; Ravi, V., Center for Artificial Intelligence, Prince Mohammad Bin Fahd University, Khobar, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, Taiwan, School of Computing, University of Petroleum and Energy Studies, Dehradun, India	Transactions on Emerging Telecommunications Technologies	2021	21615748
4206	Hydrogen fuel and fuel cell technology for cleaner future: a review	Singla M.K., Nijhawan P., Oberoi A.S.	Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Environmental Science and Pollution Research	2021	9441344
4207	All-optical ripple carry adder based on SOA-MZI configuration at 100 Gb/s	Nair N., Kaur S., Singh H.	Nair, N., Amity School of Engineering & Technology, Amity University, Noida, 201203, India; Kaur, S., Amity School of Engineering & Technology, Amity University, Noida, 201203, India; Singh, H., Thappar Institute of Engineering and Technology, Patiala, Punjab 144603, India	Optik	2021	304026
4208	Complex intuitionistic fuzzy preference relations and their applications in individual and group decision-making problems	Rani D., Garg H.	Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, India	International Journal of Intelligent Systems	2021	8848173
4209	An Efficient Matrix Iterative Method for Computing Moore–Penrose Inverse	Kaur M., Kansal M., Kumar S.	Kaur, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mediterranean Journal of Mathematics	2021	16605446
4210	MIMVOGUE: modeling Indian music using a variable order gapped HMM	Mor B., Garhwal S., Kumar A.	Mor, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2021	13807501
4211	A couple stress model in non-polynomial framework to examine structural responses of laminated composite micro-plates: An analytical solution	Joshan Y.S., Sharma L.K., Grover N., Godara R.K.	Joshan, Y.S., Department of Applied Mechanics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India; Sharma, L.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Godara, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Composite Structures	2021	2638223
4212	Estimating the effects of imperfect bonding and size-dependency on Love-type wave propagation in functionally graded orthotropic material under the influence of initial stress	Goyal R., Kumar S.	Goyal, R., School of Mathematics, Thapar Institute of Engineering and Technology Punjab Patiala, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology Punjab Patiala, 147004, India	Mechanics of Materials	2021	1676636
4213	Behavior of Mechanical Joints Prepared from EB Cured CFRP Nanocomposites Subjected to Hygrothermal Aging Under Bolt Preloads	Kumar M., Saini J.S., Bhunia H., Chowdhury S.R.	Kumar, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Chowdhury, S.R., Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, Maharashtra, India	Applied Composite Materials	2021	0929189X
4214	Analytical Modelling of Hexagonal Shaped Capacitive Micromachined Ultrasonic Transducer	Sharma R., Agarwal R., Dubey A.K., Arora A.	Sharma, R., Amity School of Engineering & Technology, New Delhi, India, Research Scholar With Amity University, Noida, India; Agarwal, R., Amity School of Engineering & Technology, New Delhi, India; Dubey, A.K., Amity School of Engineering & Technology, Amity University, Noida, Uttar Pradesh, India; Arora, A., Department of Electronics & Communication, Thapar University, Patiala, Punjab, India	International Journal of System Assurance Engineering and Management	2021	9756809
4215	Space-time spreading aided distributed MIMO-WSNs	Dey I., Joshi H., Marchetti N.	Dey, I., CONNECT, National University of Ireland, Maynooth 1, W23 F2H6, Ireland; Joshi, H., Department of Electronics and Communication Engineering (ECE), Thapar Institute of Engineering and Technology, Patiala, 147004, India; Marchetti, N., CONNECT, Trinity College Dublin, Dublin 2, D02 PN40, Ireland	IEEE Communications Letters	2021	10897798

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4216	A Novel UAV-Enabled Data Collection Scheme for Intelligent Transportation System through UAV Speed Control	Li X., Tan J., Liu A., Vijayakumar P., Kumar N., Alazab M.	Li, X., Institute for Cyber Security, School of Computer Science and Engineering, University of Electronic Science and Technology of China, Chengdu, 611731, China; Tan, J., School of Computer Science and Engineering, Central South University, Changsha, 410083, China; Liu, A., School of Computer Science and Engineering, Central South University, Changsha, 410083, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, 604001, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Thapar, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Science, Asia University, Taichung, 41354, Taiwan, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Alazab, M., College of Engineering, It and Environment, University of New South Wales, Canberra, NT 0810, Australia	IEEE Transactions on Intelligent Transportation Systems	2021	15249050
4217	An intelligent energy efficient storage system for cloud based big data applications	Arora S., Bala A.	Arora, S., Thapar Institute of Engineering and Technology, India; Bala, A., Thapar Institute of Engineering and Technology, India	Simulation Modelling Practice and Theory	2021	1569190X
4218	Mathematical modeling of E. coli inactivation in water using Fe-TiO ₂ composite in a fixed bed reactor	Thakur I., Verma A., Örmeci B.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada	Separation and Purification Technology	2021	13835866
4219	Determination and utilization of optimal diesel/n-butanol/biogas derivation for small utility dual fuel diesel engine	Mahla S.K., Safieddin Ardebili S.M., Sharma H., Dhir A., Goga G., Solmaz H.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Safieddin Ardebili, S.M., Biosystems Engineering Dept., Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran; Sharma, H., Enviro-Energy Research Lab, School of Energy & Environment, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Dhir, A., Enviro-Energy Research Lab, School of Energy & Environment, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Goga, G., Department of Mechanical Engineering, KC College of Engineering & Information Technology, Nawanshahr, India; Solmaz, H., Automotive Engineering Department, Faculty of Technology, Gazi University, Ankara, Turkey	Fuel	2021	162361
4220	Protection from metal toxicity by Hsp40-like protein isolated from contaminated soil using functional metagenomic approach	Thakur B., Yadav R., Mukherjee A., Melayah D., Marmeisse R., Fraissinet-Tachet L., Reddy M.S.	Thakur, B., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Yadav, R., Univ Lyon, Université Claude Bernard Lyon 1, CNRS, INRAE, VetAgro Sup, UMR Ecologie Microbienne, Villeurbanne, F-69622, France, Department of Botany, University of Allahabad, Prayagraj, Uttar Pradesh, India; Mukherjee, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Melayah, D., Univ Lyon, Université Claude Bernard Lyon 1, CNRS, INRAE, VetAgro Sup, UMR Ecologie Microbienne, Villeurbanne, F-69622, France; Marmeisse, R., Univ Lyon, Université Claude Bernard Lyon 1, CNRS, INRAE, VetAgro Sup, UMR Ecologie Microbienne, Villeurbanne, F-69622, France; Fraissinet-Tachet, L., Univ Lyon, Université Claude Bernard Lyon 1, CNRS, INRAE, VetAgro Sup, UMR Ecologie Microbienne, Villeurbanne, F-69622, France; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Environmental Science and Pollution Research	2021	9441344
4221	Frequency stabilization in deregulated energy system using coordinated operation of fuzzy controller and redox flow battery	Sharma M., Dhundhara S., Arya Y., Prakash S.	Sharma, M., Department of Electrical Engineering, Baba Hira Singh Bhattal Institute of Engineering and Technology, Leharagaga, Punjab, India; Dhundhara, S., Department of Basic Engineering, College of Agricultural Engineering and Technology, CCS Haryana Agricultural University, Hisar, Haryana, India; Arya, Y., Department of Electrical & Electronics Engineering, Maharaja Surajmal Institute of Technology, Janakpuri, New Delhi, India; Prakash, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Energy Research	2021	0363907X
4222	Drive-train selection criteria for n-dof manipulators: Basis for modular serial robots library	Singla E., Singh S., Singla A.	Singla, E., Indian Institute of Technology, Ropar, Punjab, India; Singh, S., University of Toronto, Toronto, ON, Canada; Singla, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Nonlinear Sciences and Numerical Simulation	2021	15651339
4223	Robust stabilization control of a spatial inverted pendulum using integral sliding mode controller	Chawla I., Chopra V., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chopra, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Nonlinear Sciences and Numerical Simulation	2021	15651339
4224	Generalized Maclaurin symmetric mean aggregation operators based on Archimedean t-norm of the intuitionistic fuzzy soft set information	Garg H., Arora R.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University) Patiala, Patiala, Punjab 147004, India; Arora, R., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University) Patiala, Patiala, Punjab 147004, India	Artificial Intelligence Review	2021	2692821
4225	Capture of carbon dioxide using solid carbonaceous and non-carbonaceous adsorbents: a review	Sharma H., Dhir A.	Sharma, H., Enviro-Energy Research Lab, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhir, A., Enviro-Energy Research Lab, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Chemistry Letters	2021	16103653

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4226	Fabrication of Kevlar®-reinforced ultra-high molecular weight polyethylene composite through microwave-assisted compression molding for body armor applications	Guleria T., Verma N., Zafar S., Jain V.	Guleria, T., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, N., Composite Design and Manufacturing Research Group, School of Engineering, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India; Zafar, S., Composite Design and Manufacturing Research Group, School of Engineering, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Reinforced Plastics and Composites	2021	7316844
4227	Influence of financial literacy on retail investors' decisions in relation to return, risk and market analysis	Prasad S., Kiran R., Sharma R.K.	Prasad, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	International Journal of Finance and Economics	2021	10769307
4228	Examining saving habits and discriminating on the basis of demographic factors: A descriptive study of retail investors'	Prasad S., Kiran R., Sharma R.K.	Prasad, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	International Journal of Finance and Economics	2021	10769307
4229	A Sanskrit-to-English machine translation using hybridization of direct and rule-based approach	Sitender, Bawa S.	Sitender, Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, MSIT, New Delhi, 110058, India; Bawa, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2021	9410643
4230	Influence of microwave heating on metallurgical and mechanical properties of Ni-40Cr3C2 composite clads in the context of cavitation erosion resistance characteristics	Mago J., Bansal S., Gupta D., Jain V.	Mago, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2021	9544062
4231	Assessment and prediction of surface ozone in Northwest Indo-Gangetic Plains using ensemble approach	Rana M., Mittal S.K., Beig G.	Rana, M., School of Chemistry and Bio-Chemistry, Thapar University, Patiala, 147004, India; Mittal, S.K., School of Chemistry and Bio-Chemistry, Thapar University, Patiala, 147004, India; Beig, G., Indian Institute of Tropical Meteorology, Pashan, Pune, 411008, India	Environment, Development and Sustainability	2021	1387585X
4232	On Processing and Characterization of Cu–Mo-Based Castings Through Microwave Heating	Kaushal S., Bohra S., Gupta D., Jain V.	Kaushal, S., Department of Mechanical Engineering, Gulzar Group of Institutes, Khanna, Punjab, India; Bohra, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Metalcasting	2021	19395981
4233	In Vitro Screening and Characterization of Selected Elite Clones of Eucalyptus tereticornis Sm. for Salt Stress	Singh D., Kumar A.	Singh, D., TIFAC-Centre of Relevance and Excellence (CORE) in Agro & Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, A., TIFAC-Centre of Relevance and Excellence (CORE) in Agro & Industrial Biotechnology, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Plant Growth Regulation	2021	7217595
4234	BinDaaS: Blockchain-Based Deep-Learning as-a-Service in Healthcare 4.0 Applications	Bhattacharya P., Tanwar S., Bodkhe U., Tyagi S., Kumar N.	Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Bodkhe, U., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Network Science and Engineering	2021	23274697
4235	Biosensors Based on MnO ₂ Nanostructures: A Review	Sohal N., Maity B., Shetti N.P., Basu S.	Sohal, N., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka, 580 027, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Applied Nano Materials	2021	25740970
4236	A detailed introduction of different beamforming techniques used in 5G	Bindle A., Gulati T., Kumar N.	Bindle, A., Department of ECE, Maharishi Markandeshwar University, Ambala, India; Gulati, T., Department of ECE, Maharishi Markandeshwar University, Ambala, India; Kumar, N., Department of Computer science, Thapar University, Patiala, India	International Journal of Communication Systems	2021	10745351

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4237	Graphene for hydrogen energy storage - A comparative study on GO and rGO employed in a modified reversible PEM fuel cell	Jindal H., Oberoi A.S., Sandhu I.S., Chitkara M., Singh B.	Jindal, H., Mechanical Engineering Department, University Institute of Engineering and Technology, Chitkara University, Rajpura, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sandhu, I.S., Mechanical Engineering Department, University Institute of Engineering and Technology, Chitkara University, Rajpura, India; Chitkara, M., Mechanical Engineering Department, University Institute of Engineering and Technology, Chitkara University, Rajpura, India; Singh, B., Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Malaysia	International Journal of Energy Research	2021	0363907X
4238	Recycling of spent coffee grounds in construction materials: A review	Saberian M., Li J., Donnoli A., Bonderenko E., Oliva P., Gill B., Lockrey S., Siddique R.	Saberian, M., School of Engineering, RMIT University, Melbourne, Victoria, Australia; Li, J., School of Engineering, RMIT University, Melbourne, Victoria, Australia; Donnoli, A., School of Engineering, RMIT University, Melbourne, Victoria, Australia; Bonderenko, E., School of Engineering, RMIT University, Melbourne, Victoria, Australia; Oliva, P., School of Engineering, RMIT University, Melbourne, Victoria, Australia; Gill, B., School of Engineering, RMIT University, Melbourne, Victoria, Australia; Lockrey, S., School of Design, RMIT University, Melbourne, Victoria, Australia; Siddique, R., Thapar Institute of Engineering & Technology, Patiala, India	Journal of Cleaner Production	2021	9596526
4239	Biometric system - Challenges and future trends	Singla S.K., Singh M., Kanwal N.	Singla, S.K., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Singh, M., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Kanwal, N., Punjabi University, Department of Computer Science and Engineering, Patiala, India	Proceedings of the 2021 8th International Conference on Computing for Sustainable Global Development, INDIACom 2021	2021	
4240	Facelgnition: An automatic anti-theft and keyless solution for vehicles	Dang T., Gupta V., Wadia D.S., Kohli P., Chahal R.K.	Dang, T., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Gupta, V., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Wadia, D.S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Kohli, P., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Chahal, R.K., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	Proceedings of 2nd IEEE International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2021	2021	
4241	In vitro kinetic release study of terminalia arjuna loaded PLGA nanoparticles	Kumari V., Sangal A., Mehta R.	Kumari, V., Amity Institute of Applied Sciences, Amity University, Sector 125, Noida, 201313, India; Sangal, A., Amity Institute of Applied Sciences, Amity University, Sector 125, Noida, 201313, India; Mehta, R., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Trends in Biomaterials and Artificial Organs	2021	9711198
4242	Encapsulation and release of non-fluorescent crystal violet confined in bile-salt aggregates	Sharma P., Sohal N., Maity B.	Sharma, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	RSC Advances	2021	20462069
4243	DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment	Chhikara P., Tekchandani R., Kumar N., Chamola V., Guizani M.	Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248001, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Chamola, V., Department of Electrical and Electronics Appcair, Birla Institute of Technology and Science-Pilani, Pilani, India; Guizani, M., Computer Science and Engineering Department, Qatar University, Doha, Qatar	IEEE Internet of Things Journal	2021	23274662
4244	An Energy-Efficient Cache Localization Technique for D2D Communication in IoT Environment	Prerna D., Tekchandani R., Kumar N., Tanwar S.	Prerna, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India	IEEE Internet of Things Journal	2021	23274662
4245	Photocatalytic degradation of atenolol with graphene oxide/zinc oxide composite: Optimization of process parameters using statistical method	Bhatia V., Dhir A., Ray A.K.	Bhatia, V., School of Energy & Environment, Thapar University, Patiala, 147004, India; Dhir, A., School of Energy & Environment, Thapar University, Patiala, 147004, India; Ray, A.K., Department of Chemical & Biochemical Engineering, University of Western Ontario, London, ON N6A 3K7, Canada	Journal of Photochemistry and Photobiology A: Chemistry	2021	10106030
4246	Defect Detection Capabilities of Pulse Compression Based Infrared Non-Destructive Testing and Evaluation	Dua G., Arora V., Mulaveesala R.	Dua, G., Department of Electronics and Communications Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, V., School of Electronics, Indian Institute of Information Technology Una, Transit Campus-II: Vill. Chandpur, Una, 177220, India; Mulaveesala, R., Department of Electrical Engineering, Indian Institute of Technology Ropar, Bara Phool, Birla Seed Farms, Rupnagar, 140001, India	IEEE Sensors Journal	2021	1530437X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4247	Microplastics in the environment: Occurrence, perils, and eradication	Sharma S., Basu S., Shetti N.P., Nadagouda M.N., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 027, India; Nadagouda, M.N., The United States Environmental Protection Agency, ORD, CESER, WID, CMTB, 26 W. Martin Luther King Drive, Cincinnati, OH 45268, United States; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka 580 002, India	Chemical Engineering Journal	2021	13858947
4248	Photoelectrocatalytic treatment of recalcitrant compounds and bleach stage pulp and paper mill effluent using Au-TiO ₂ nanotube electrode	Rajput H., Changotra R., Kumar Sangal V., Dhir A.	Rajput, H., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Changotra, R., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar Sangal, V., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan 302017, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Chemical Engineering Journal	2021	13858947
4249	Synthesis of layered 2H–MoSe ₂ nanosheets for the high-performance supercapacitor electrode material	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2021	9258388
4250	Non-destructive evaluation of steel and gfrp reinforced beams using ae and dic techniques	Sharma G., Sharma S., Sharma S.K.	Sharma, G., Civil Engineering Department Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., Civil Engineering Department Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Structural Engineering and Mechanics	2021	12254568
4251	Blockchain-based efficient communication for food supply chain industry: Transparency and traceability analysis for sustainable business	Tayal A., Solanki A., Kondal R., Nayyar A., Tanwar S., Kumar N.	Tayal, A., Department of Electronic and Communication, Indira Gandhi Delhi Technical University for Women, Delhi, India; Solanki, A., School of ICT, Gautam Buddha University, Greater Noida, India; Kondal, R., Department of Electronic and Communication, Indira Gandhi Delhi Technical University for Women, Delhi, India; Nayyar, A., Graduate School, Duy Tan University, Da Nang, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang, Viet Nam; Tanwar, S., Department of CSE, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, Saudi Arabia	International Journal of Communication Systems	2021	10745351
4252	Circular economy research: A bibliometric analysis (2000–2019) and future research insights	Goyal S., Chauhan S., Mishra P.	Goyal, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, India, The Institute for Competitiveness, India; Chauhan, S., O. P. Jindal Global University, India; Mishra, P., O. P. Jindal Global University, India	Journal of Cleaner Production	2021	9596526
4253	Dysprosium doped and titanium activated calcium silicates for cool white light emitting diode derived from natural resources	Chhina M.K., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Molecular Structure	2021	222860
4254	X-shaped ultra-wide band dielectric resonator antenna used for microwave imaging applications	Kaur G., Kaur A.	Kaur, G., Thapar Institute of Engineering and Technology, Electronics and Communication Department, India; Kaur, A., Thapar Institute of Engineering and Technology, Electronics and Communication Department, India	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021	2021	
4255	Archimedes Spiral Antenna for the Microwave Hyperthermia	Kaur K.	Kaur, K., Thapar Institute of Engineering and Technology, Electronics and Communication Department, India	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021	2021	
4256	Statistical Measures of Generic Noise Distributions for Molecular Communication	Kumari S., Singh S., Singh R.K., Singh S.P., Manan L.M., Kumar A.	Kumari, S., Galgotias College of Engg. Tech., Electronics and Communication Engineering, Gr. Noida, India; Singh, S., Galgotias College of Engg. Tech., Electronics and Communication Engineering, Gr. Noida, India; Singh, R.K., Galgotias College of Engg. Tech., Department of Mca, Gr. Noida, India; Singh, S.P., Galgotias College of Engg. Tech., Electronics and Communication Engineering, Gr. Noida, India; Manan, L.M., Galgotias College of Engg. Tech., Electronics and Communication Engineering, Gr. Noida, India; Kumar, A., Thapar Institute of Engg. Tech., Department of Electronics and Communication Engineering, Patiala, Punjab, India	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021	2021	
4257	Cir of Nanoscale Communication for Different Polarization Factor	Sharma S., Jaiswal S., Kumar Singh R., Pratap Singh S., Lakshmanan M., Kumar A.	Sharma, S., Galgotia College of Engg. Tech., Dept. of ECE, Greater Noida, India; Jaiswal, S., Galgotia College of Engg. Tech., Dept. of ECE, Greater Noida, India; Kumar Singh, R., Galgotia College of Engg. Tech., Dept. of ECE, Greater Noida, India; Pratap Singh, S., Galgotia College of Engg. Tech., Dept. of ECE, Greater Noida, India; Lakshmanan, M., Galgotia College of Engg. Tech., Dept. of ECE, Greater Noida, India; Kumar, A., Thapar Institute of Engg. Tech., Patiala Punjab, India	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4258	Chaotic evolutionary programming for an engineering optimization problem	Singh N.J., Singh S., Chopra V., Aftab M.A., Suhail Hussain S.M., Ustun T.S.	Singh, N.J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Chopra, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Aftab, M.A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Suhail Hussain, S.M., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0298, Japan; Ustun, T.S., Fukushima Renewable Energy Institute, AIST (FREA), National Institute of Advanced Industrial Science and Technology (AIST), Koriyama, 963-0298, Japan	Applied Sciences (Switzerland)	2021	20763417
4259	IoT Based Realtime Automatic Headlight Dimmer System	Gandhi K., Aulakh K.S., Kharoud G.S., Thind J.S., Sharma S.	Gandhi, K., Thapar Institute of Engineering and Technology, Dept. of Computer Science, Patiala, India; Aulakh, K.S., Thapar Institute of Engineering and Technology, Dept. of Computer Science, Patiala, India; Kharoud, G.S., Thapar Institute of Engineering and Technology, Dept. of Computer Science, Patiala, India; Thind, J.S., Thapar Institute of Engineering and Technology, Dept. of Computer Science, Patiala, India; Sharma, S., Thapar Institute of Engineering and Technology, Dept. of Computer Science, Patiala, India	Proceedings - 2021 10th International Conference on Industrial Technology and Management, ICITM 2021	2021	
4260	Combinatorics Of Some Fifth And Sixth Order Mock Theta Functions	Rana M., Sharma S.	Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, 151302, India	Electronic Research Archive	2021	26881594
4261	n-Color compositions and lattice paths of Agarwal-Bressoud	Rana M., Sharma S.	Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India	Indian Journal of Pure and Applied Mathematics	2021	195588
4262	Effect of compact and elongated configurations on the spontaneous and induced fission of Fm isotopes	Kaur A., Sharma N., Sharma M.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physical Review C	2021	24699985
4263	Impact of microstructures and viscous liquid loading on electromechanical coupling factor and surface wave transference in a prestressed piezoelectric smart material layered structure	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Engineering Research Express	2021	26318695
4264	Metallurgical and wear study of MWCNT-reinforced h-AMMC fabricated through microwave hybrid sintering	Kumar R., Bhowmick H., Gupta D.	Kumar, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Materials Research	2021	18625282
4265	CHFS: Complex hesitant fuzzy sets-their applications to decision making with different and innovative distance measures	Garg H., Mahmood T., Rehman U.U., Ali Z.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan; Rehman, U.U., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan; Ali, Z., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan	CAAI Transactions on Intelligence Technology	2021	24686557
4266	Indian Sign Language Generation System	Sugandhi, Kumar P., Kaur S.	Sugandhi, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, P., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, S., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computer	2021	189162
4267	A Novel Three-Factor Authentication Protocol for Wireless Sensor Networks with IoT Notion	Wu F., Li X., Xu L., Vijayakumar P., Kumar N.	Wu, F., Department of Computer Science and Engineering, Xiamen Institute of Technology, Xiamen, China; Li, X., Institute for Cyber Security, School of Computer Science and Engineering, University of Electronic Science and Technology of China, Chengdu, China; Xu, L., School of Informatics, Xiamen University, Xiamen, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Systems Journal	2021	19328184
4268	Blockchain for IoT-Based Healthcare: Background, Consensus, Platforms, and Use Cases	Ray P.P., Dash D., Salah K., Kumar N.	Ray, P.P., Department of Computer Applications, Sikkim University, Gangtok, India; Dash, D., Department of Computer Science and Engineering, National Institute of Technology Patna, Patna, India; Salah, K., Department of Electrical Engineering and Computer Science, Khalifa University, Abu Dhabi, United Arab Emirates; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India	IEEE Systems Journal	2021	19328184
4269	BLWN: Blockchain-Based Lightweight Simplified Payment Verification in IoT-Assisted e-Healthcare	Ray P.P., Kumar N., Dash D.	Ray, P.P., Department of Computer Applications, Sikkim University, Gangtok, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Dash, D., Department of Computer Science and Engineering, NIT Patna, Patna, India	IEEE Systems Journal	2021	19328184

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4270	Bioactive glasses and glass–ceramics for hyperthermia treatment of cancer: state-of-art, challenges, and future perspectives	Danewalia S.S., Singh K.	Danewalia, S.S., Division of Research and Development, Lovely Professional University, Phagwara, 144411, India; Singh, K., School of Physics & Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today Bio	2021	25900064
4271	Design methodology of passive in-line relays for molecular communication in flow-induced microfluidic channel	Manocha P., Chandwani G.	Manocha, P., School of Medical Science & Technology, IIT Kharagpur, Kharagpur, 721302, India; Chandwani, G., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Biosensors	2021	20796374
4272	Intervention of artificial neural network with an improved activation function to predict the performance and emission characteristics of a biogas powered dual fuel engine	Arora V., Mahla S.K., Leekha R.S., Dhir A., Lee K., Ko H.	Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, 144603, India; Leekha, R.S., Lead Application Support, IT-App Development/Maintenance, Concentrix, Gurugram, 122001, India; Dhir, A., Department of Energy & Environment, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Lee, K., School of Computer Software, Daegu Catholic University, Gyeongsan, 38430, South Korea; Ko, H., Information Technology Research Institute, Chosun University, Gwangju, 61452, South Korea	Electronics (Switzerland)	2021	20799292
4273	Probing the interaction of glutathione with different shape of silver-nanoparticles by optical spectroscopy	Kaur P., Gadhave K., Garg N., Deb D., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gadhave, K., Indian Institute of Technology (IIT) MandiHimachal Pradesh 175005, India; Garg, N., Indian Institute of Technology (IIT) MandiHimachal Pradesh 175005, India, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh 221005, India; Deb, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech (USA) Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Today Communications	2021	23524928
4274	Blockchain-Based UAV Path Planning for Healthcare 4.0: Current Challenges and the Way Ahead	Aggarwal S., Kumar N., Alhusein M., Muhammad G.	Aggarwal, S., Thapar Institute of Engineering and Technology; Kumar, N., Thapar Institute of Engineering and Technology; Alhusein, M., King Saud University; Muhammad, G., King Saud University	IEEE Network	2021	8908044
4275	A Cognitive Information-Based Decision-Making Algorithm Using Interval-Valued q-Rung Picture Fuzzy Numbers and Heronian Mean Operators	Yang Z., Li X., Garg H., Qi M.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Li, X., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Qi, M., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China	Cognitive Computation	2021	18669956
4276	Studies on Exchange-Coupled Magnetodielectric Ceramics for Microwave Absorption in Ku-Band	Pahwa C., Mahadevan S., Narang S.B., Sharma P.	Pahwa, C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mahadevan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Magnetics	2021	189464
4277	Twitter for disaster relief through sentiment analysis for COVID-19 and natural hazard crises	Behl S., Rao A., Aggarwal S., Chadha S., Pannu H.S.	Behl, S., Computer Science and Engineering Department Thapar Institute of Engineering and Technology Patiala India, India; Rao, A., Computer Science and Engineering Department Thapar Institute of Engineering and Technology Patiala India, India; Aggarwal, S., Computer Science and Engineering Department Thapar Institute of Engineering and Technology Patiala India, India; Chadha, S., Computer Science and Engineering Department Thapar Institute of Engineering and Technology Patiala India, India; Pannu, H.S., Computer Science and Engineering Department Thapar Institute of Engineering and Technology Patiala India, India	International Journal of Disaster Risk Reduction	2021	22124209
4278	Parametric optimization and analysis of cavitation erosion behavior of Ni-based + 10WC microwave processed composite clad using Taguchi approach	Bansal S., Mago J., Gupta D., Jain V.	Bansal, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Mago, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Surface Topography: Metrology and Properties	2021	2051672X
4279	SDN/NFV architectures for edge-cloud oriented IoT: A systematic review	Ray P.P., Kumar N.	Ray, P.P., Department of Computer Applications, Sikkim University, India; Kumar, N., School of Computing, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Thapar Institute of Engineering and Technology, Patiala, India	Computer Communications	2021	1403664
4280	A highly birefringent bend-insensitive porous core PCF for endlessly single-mode operation in THz regime: an analysis with core porosity	Upadhyay A., Singh S., Sharma D., Taya S.A.	Upadhyay, A., Department of Applied Science and Humanities, Rajkiya Engineering College, Azamgarh, UP, India; Singh, S., Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, UP, India; Sharma, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Taya, S.A., Department of Physics, Islamic University of Gaza, Gaza Strip, Palestine	Applied Nanoscience (Switzerland)	2021	21905509

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4281	Quote examiner: verifying quoted images using web-based text similarity	Banerjee S., Kaur S., Kumar P.	Banerjee, S., Department of Computer Science & Engineering, TIET, Patiala, Punjab, India; Kaur, S., Department of Computer Science & Engineering, TIET, Patiala, Punjab, India; Kumar, P., Department of Computer Science & Engineering, TIET, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
4282	Insights of 8-hydroxyquinolines: A novel target in medicinal chemistry	Gupta R., Luxami V., Paul K.	Gupta, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Bioorganic Chemistry	2021	452068
4283	Plug-in over Plug-in Evaluation in Heterogeneous 5G Enabled Networks and beyond	Sood K., Karmakar K.K., Varadharajen V., Kumar N., Xiang Y., Yu S.	Sood, K., Deakin University, Centre for Cyber Security Research and Innovation, Australia; Karmakar, K.K., University of Newcastle, Australia; Varadharajen, V., University of Newcastle, Australia; Kumar, N., Thapar University, Asia University, Department of Computer Science and Information Engineering, Taiwan; Xiang, Y., Deakin University, Centre for Cyber Security Research and Innovation, Australia; Yu, S., University of Technology Sydney, Australia	IEEE Network	2021	8908044
4284	Deep-Reinforcement-Learning-Based Proportional Fair Scheduling Control Scheme for Underlay D2D Communication	Budhiraja I., Kumar N., Tyagi S.	Budhiraja, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Tyagi, S., Department of ECE, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India	IEEE Internet of Things Journal	2021	23274662
4285	Novel Similarity Measure Based on the Transformed Right-Angled Triangles Between Intuitionistic Fuzzy Sets and its Applications	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab 147004, India	Cognitive Computation	2021	18669956
4286	Target based image fusion using multi-scale feature selection in three regions	Chaudhary V., Kumar V.	Chaudhary, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2021	13807501
4287	Advances in transition metal dichalcogenide-based two-dimensional nanomaterials	Monga D., Sharma S., Shetti N.P., Basu S., Reddy K.R., Aminabhavi T.M.	Monga, D., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Electrochemical Science & Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka 580 030, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Reddy, K.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia; Aminabhavi, T.M., Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka 580007, India	Materials Today Chemistry	2021	24685194
4288	Broadband gain enhancement of an UWB antenna using conformal wideband NRI metamaterial	Negi D., Khanna R., Kaur J.	Negi, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Frequenz	2021	161136
4289	On Autocentral Automorphisms of Finite p-Groups	Chahal S.S., Gumber D., Kalra H.	Chahal, S.S., Department of Mathematics, Akal University, Talwandi Sabo, 151302, India; Gumber, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kalra, H., Department of Mathematics, Guru Jambheshwar University of Science and Technology, Hisar, 125001, India	Results in Mathematics	2021	14226383
4290	Feasibility of Grid-connected Solar-wind Hybrid System with Electric Vehicle Charging Station	Singh S., Chauhan P., Singh N.J.	Singh, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Chauhan, P., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Singh, N.J., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India	Journal of Modern Power Systems and Clean Energy	2021	21965625
4291	Exact solutions and conservation laws of multi Kaup–Boussinesq system with fractional order	Singla K., Rana M.	Singla, K., Department of Mathematics, Chandigarh University, Gharuan-Mohali, Punjab, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Analysis and Mathematical Physics	2021	16642368
4292	Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT	Vinoth R., Deborah L.J., Vijayakumar P., Kumar N.	Vinoth, R., Department of Information Technology, Gojan School of Business and Technology, Chennai, India; Deborah, L.J., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	IEEE Internet of Things Journal	2021	23274662

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4293	Processing routes, resulting microstructures, and strain rate dependent deformation behaviour of advanced high strength steels for automotive applications	Nanda T., Singh V., Singh G., Singh M., Kumar B.R.	Nanda, T., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, V., Department of Mechanical Engineering, Indian Institute of Technology, Ropar, India; Singh, G., School of Engineering, Indian Institute of Technology, Mandi, India; Singh, M., Department of Mechanical Engineering, Indian Institute of Technology, Ropar, India; Kumar, B.R., MSE Division, CSIR-National Metallurgical Laboratory, Jamshedpur, India	Archives of Civil and Mechanical Engineering	2021	16449665
4294	Discontinuous Galerkin method for a nonlinear age-structured tumor cell population model with proliferating and quiescent phases	Sharma D., Singh P.	Sharma, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	International Journal of Modern Physics C	2021	1291831
4295	Critical Influence of Annealing Configuration in Kesterite Phase Evolution During Growth of Cu ₂ ZnSnS ₄ Thin Films from Non-Toxic Environment-Friendly Solutions	Gupta I., Pandey K., Jain A.K., Malar P., Mohanty B.C.	Gupta, I., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jain, A.K., Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India; Malar, P., Research Institute, Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Electronic Materials	2021	3615235
4296	Real-Time Stabilization Control of a Rotary Inverted Pendulum Using LQR-Based Sliding Mode Controller	Chawla I., Singla A.	Chawla, I., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Arabian Journal for Science and Engineering	2021	2193567X
4297	Effect of heat treatment on microstructure and mechanical properties of boron containing Ti-Stabilized AISI-321 steel for nuclear power plant application	Kasana S.S., Pandey O.P.	Kasana, S.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Star Wire (India) Ltd. Ballabgarh Haryana 121004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Today Communications	2021	23524928
4298	Superior adsorption removal of dye and high catalytic activity for transesterification reaction displayed by crystalline CaO nanocubes extracted from mollusc shells	Thakur S., Singh S., Pal B.	Thakur, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Fuel Processing Technology	2021	3783820
4299	Phase behaviour of confined associating fluid in a functionalized slit pore: a Monte Carlo study	Mandal S.S., Singh S.K., Bhattacharjee S., Khan S.	Mandal, S.S., Department of Chemical & Biochemical Engineering, Indian Institute of Technology Patna, Patna, 801103, India; Singh, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhattacharjee, S., Department of Chemical & Biochemical Engineering, Indian Institute of Technology Patna, Patna, 801103, India; Khan, S., Department of Chemical & Biochemical Engineering, Indian Institute of Technology Patna, Patna, 801103, India	Fluid Phase Equilibria	2021	3783812
4300	Design a synthetic glucose receptor using computational intelligence approach	Kondabala R., Kumar V., Ali A.	Kondabala, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Department of Computer Science & Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Molecular Graphics and Modelling	2021	10933263
4301	Compact Rack Shaped MIMO Dielectric Resonator Antenna with Improved Axial Ratio for UWB Applications	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kaur, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Wireless Personal Communications	2021	9296212
4302	Performance Analysis of MRC Receiver over Fisher Snedecor (F) Composite Fading Channels	Shankar H., Kansal A.	Shankar, H., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kansal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Wireless Personal Communications	2021	9296212
4303	Diagnosis of Parkinson's disease using deep CNN with transfer learning and data augmentation	Kaur S., Aggarwal H., Rani R.	Kaur, S., Department of Computer Science and Engineering, Punjabi University, Patiala, 147002, India; Aggarwal, H., Department of Computer Science and Engineering, Punjabi University, Patiala, 147002, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Multimedia Tools and Applications	2021	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4304	Response surface statistical optimization of fermentation parameters for resveratrol production by the endophytic fungus <i>Arcopilus aureus</i> and its tyrosinase inhibitory activity	Dwivedi V., Rath S.K., Prakash R., Saxena S.	Dwivedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Rath, S.K., School of Chemistry and Biochemistry, G-Block, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Prakash, R., School of Chemistry and Biochemistry, G-Block, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First Floor), Patiala, Punjab 147001, India	Biotechnology Letters	2021	1415492
4305	Fractional Fourier Transform based Riesz fractional derivative approach for edge detection and its application in image enhancement	Kaur K., Jindal N., Singh K.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Signal Processing	2021	1651684
4306	Investigation of Optimized Parameters for Magnetorheological Finishing the Internal Surface of the Cast-Iron Cylindrical Molds	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Arabian Journal for Science and Engineering	2021	2193567X
4307	Review on the synthesis, structural and photo-physical properties of Gd ₂ O ₃ phosphors for various luminescent applications	Priya R., Pandey O.P., Dhoble S.J.	Priya, R., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Dhoble, S.J., Department of Physics, R.T.M. Nagpur University, Nagpur, 440033, India	Optics and Laser Technology	2021	303992
4308	Effect of COVID-19 outbreak on urban health and environment	Girdhar A., Kapur H., Kumar V., Kaur M., Singh D., Damasevicius R.	Girdhar, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kapur, H., Computer Science, GGSSS, Kaithal, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Kaur, M., Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India; Singh, D., Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India; Damasevicius, R., Silesian University of Technology, Gliwice, Poland, Vytautas Magnus University, Kaunas, Lithuania	Air Quality, Atmosphere and Health	2021	18739318
4309	Preparation and Characterization of Oxo-degradable Polypropylene Composites Containing a Modified Pro-oxidant	Sable S., Ahuja S., Bhunia H.	Sable, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Journal of Polymers and the Environment	2021	15662543
4310	In-silico and in-vitro testing of an implantable superstrate loaded biocompatible antenna for MICS band applications	Singh G., Kaur J.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 47004, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 47004, India	Microwave and Optical Technology Letters	2021	8952477
4311	Blockchain-Envisioned Software Multi-Swarming UAVs to Tackle COVID-19 Situations	Gupta R., Kumari A., Tanwar S., Kumar N.	Gupta, R., Nirma University, India; Kumari, A., Nirma University, India; Tanwar, S., Nirma University, India; Kumar, N., Thapar Institute of Engineering and Technology, Asia University, Taiwan, King Abdul Aziz University, Saudi Arabia	IEEE Network	2021	8908044
4312	Blockchain-Based Massive Data Dissemination Handling in IIoT Environment	Kumari A., Tanwar S., Tyagi S., Kumar N.	Kumari, A., Nirma University, India; Tanwar, S., Nirma University, India; Tyagi, S., Thapar Institute of Engineering and Technology, India; Kumar, N., Thapar Institute of Engineering and Technology, India, Asia University, India, King Abdul Aziz University, Saudi Arabia	IEEE Network	2021	8908044
4313	A comprehensive study of different feature selection methods and machine-learning techniques for SODAR structure classification	Kumar N., Soni K., Agarwal R.	Kumar, N., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Soni, K., CSIR-National Physical Laboratory, New Delhi, Delhi 110012, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Modeling Earth Systems and Environment	2021	23636203
4314	Compound TCP Performance for Industry 4.0 WiFi: A Cognitive Federated Learning Approach	Pokhrel S.R., Singh S.	Pokhrel, S.R., School of Information Technology, Deakin University, Geelong, VIC, Australia; Singh, S., Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Industrial Informatics	2021	15513203
4315	Novel Memristor Emulators using Fully Balanced VDBA and Grounded Capacitor	Yadav N., Rai S.K., Pandey R.	Yadav, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2021	22286179

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4316	Profiling of selenium and other trace elements in breads from rice and maize cultivated in a seleniferous area of Punjab (India)	Kirichuk A.A., Skalnaya M.G., Tinkov A.A., Ajsuvakova O.P., Prakash N.T., Jaiswal S.K., Prakash R., Grabeklis A.R., Zhang F., Guo X., Skalny A.V.	Kirichuk, A.A., Peoples' Friendship University of Russia (RUDN University), Moskva, Russian Federation; Skalnaya, M.G., Peoples' Friendship University of Russia (RUDN University), Moskva, Russian Federation, IM Sechenov First Moscow State Medical University, Moskva, 119146, Russian Federation, Yaroslavl State University, Yaroslavl, 150000, Russian Federation; Tinkov, A.A., IM Sechenov First Moscow State Medical University, Moskva, 119146, Russian Federation, Yaroslavl State University, Yaroslavl, 150000, Russian Federation, Federal Research Centre of Biological Systems and Agro-technologies of the Russian Academy of Sciences, Orenburg, 460000, Russian Federation; Ajsuvakova, O.P., IM Sechenov First Moscow State Medical University, Moskva, 119146, Russian Federation, Yaroslavl State University, Yaroslavl, 150000, Russian Federation, Federal Research Centre of Biological Systems and Agro-technologies of the Russian Academy of Sciences, Orenburg, 460000, Russian Federation; Prakash, N.T., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jaiswal, S.K., Marwadi University, Rajkot, 360003, India; Prakash, R., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Grabeklis, A.R., Peoples' Friendship University of Russia (RUDN University), Moskva, Russian Federation, IM Sechenov First Moscow State Medical University, Moskva, 119146, Russian Federation; Zhang, F., School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Guo, X., School of Public Health, Health Science Center, Xi'an Jiaotong University, Xi'an, 710000, China; Skalny, A.V., Peoples' Friendship University of Russia (RUDN University), Moskva, Russian Federation, IM Sechenov First Moscow State Medical University, Moskva, 119146, Russian Federation, Yaroslavl State University, Yaroslavl, 150000, Russian Federation	Journal of Food Science and Technology	2021	221155
4317	Thermal kinetics involved during the solid-state synthesis of Cr ₂ AlC MAX phase	Sharma P., Pandey O.P.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Journal of Thermal Analysis and Calorimetry	2021	13886150
4318	Quantum Programming Language: A Systematic Review of Research Topic and Top Cited Languages	Garhwal S., Ghorani M., Ahmad A.	Garhwal, S., Department of CSED, Thapar Institute of Engineering and Technology, Patiala, India; Ghorani, M., Faculty of Mathematical Sciences, Shahrood University of Technology, Shahrood, Iran; Ahmad, A., Department of CSED, College of Information Technology, United Arab Emirates University, Al Ain, United Arab Emirates	Archives of Computational Methods in Engineering	2021	11343060
4319	Dynamizing Dijkstra: A solution to dynamic shortest path problem through retroactive priority queue	Sunita, Garg D.	Sunita, Computer Science and Engineering, Thapar University, Patiala, 147004, India; Garg, D., Computer Science Engineering Department, Bennett University, Greater Noida, Bennett University, Noida, 201310, India	Journal of King Saud University - Computer and Information Sciences	2021	13191578
4320	Recent Advances in Iron-Catalyzed Chemical and Enzymatic Carbene-Transfer Reactions	Kaur P., Tyagi V.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advanced Synthesis and Catalysis	2021	16154150
4321	Sasta Bhojan Sewa: the pricing dilemma	Kaur H., Narayanamurthy G.	Kaur, H., Thapar University LM, Thapar School of Management, Dera Bassi, India; Narayanamurthy, G., Department of Operations and Supply Chain Management, University of Liverpool Management School, Liverpool, United Kingdom	Emerald Emerging Markets Case Studies	2021	20450621
4322	A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation	Hassija V., Chamola V., Krishna D.N.G., Kumar N., Guizani M.	Hassija, V., Department of Computer Science and It, Jaypee Institute of Information Technology, Noida, 201304, India; Chamola, V., Department of Electrical and Electronics Engineering and Appcair, BITS-Pilani, Pilani, 333031, India; Krishna, D.N.G., Department of Computer Science and It, Jaypee Institute of Information Technology, Noida, 201304, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Guizani, M., Computer Science and Engineering Department, Qatar University, Doha, 147001, Qatar	IEEE Internet of Things Journal	2021	23274662
4323	Conventional and Nanotechnology-Based Sensing Methods for SARS Coronavirus (2019-nCoV)	Shetti N.P., Mishra A., Bukkitgar S.D., Basu S., Narang J., Raghava Reddy K., Aminabhavi T.M.	Shetti, N.P., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka, 580 027, India; Mishra, A., Department of Chemical Engineering, Inha University, Incheon, 22212, South Korea; Bukkitgar, S.D., Center for Electrochemical Science and Materials, Department of Chemistry, K.L.E. Institute of Technology, Hubballi, Karnataka, 580 027, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Narang, J., Department of Biotechnology, School of Chemical and Life Sciences, Jamia Hamdard, Hamdard Nagar, New Delhi, 110062, India; Raghava Reddy, K., School of Chemical and Biomolecular Engineering, University of Sydney, Sydney, NSW 2006, Australia; Aminabhavi, T.M., Department of Pharmaceutical Engineering, SET's College of Pharmacy, Dharwad, Karnataka, 580 002, India	ACS Applied Bio Materials	2021	25766422

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4324	Green computing in IoT: Time slotted simultaneous wireless information and power transfer	Jaiswal A., Kumar S., Kaiwartya O., Prasad M., Kumar N., Song H.	Jaiswal, A., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kumar, S., School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kaiwartya, O., Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Prasad, M., Centre for Artificial Intelligence, School of Software, University of Technology Sydney, NSW, Australia; Kumar, N., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computing, University of Petroleum and Energy Studies, Dehradun, 248007, India; Song, H., Department of Electrical, Computer, Software, and Systems Engineering, Embry-Riddle, Aeronautical University, Daytona Beach FL 32114, United States	Computer Communications	2021	1403664
4325	High yield glucose assisted carbonization of soy flour for dye removal applications	Choudhary R., Pandey O.P., Brar L.K.	Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Chemistry and Physics	2021	2540584
4326	Preparation and characterization of phase pure monoclinic α -Bi ₂ O ₃ nanoparticles and influence of Ni ²⁺ and Cu ²⁺ impregnation on their photocatalytic properties	Kumari P., Das R.K., Pal B.	Kumari, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Das, R.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Materials Chemistry and Physics	2021	2540584
4327	Anodic aluminium oxide based humidity sensor for online moisture monitoring of power transformer	Kumar S., Raina K.K., Islam T.	Kumar, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology Punjab 147004, India; Raina, K.K., DIT University, Deharadun, Uttrakhand 248009, India; Islam, T., Department of Electrical Engineering, Jamia Millia Islamia (A Central University), New Delhi, India	Sensors and Actuators, B: Chemical	2021	9254005
4328	Dual-channel ratiometric recognition of Al ³⁺ and F ⁻ ions through an ES IPT-ESICT signalling mechanism	Kumar G., Singh I., Goel R., Paul K., Luxami V.	Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Goel, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2021	13861425
4329	Sustainable and Greener Self-Compacting Concrete incorporating Industrial By-Products: A Review	Gupta N., Siddique R., Belarbi R.	Gupta, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Belarbi, R., LaSIE, La Rochelle University-UMR, CNRS7356, France	Journal of Cleaner Production	2021	9596526
4330	A lattice model accounting for multi-lane traffic system	Madaan N., Sharma S.	Madaan, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica A: Statistical Mechanics and its Applications	2021	3784371
4331	A thin Cu interlayer-mediated control of phase evolution of Cu ₂ ZnSnS ₄ thin films grown by RF magnetron sputtering of a single elementary target with high white light sensitivity	Pandey K., Mohanty B.C.	Pandey, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Surface Science	2021	1694332
4332	Collaboratively augmented UIP – Filtered RIP with relevancy mapping for personalization of web search	Goel S., Kumar R.	Goel, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Information Sciences	2021	200255
4333	Förster resonance energy transfer (FRET) and applications thereof (Anal. Methods (2020) 12 (5532–5550) DOI: 10.1039/D0AY01961E)	Kaur A., Kaur P., Ahuja S.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaur, P., Department of Biotechnology, Sri Guru Granth Sahib World University Fatehgarh Sahib, Punjab, India; Ahuja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Analytical Methods	2021	17599660
4334	Uncertain database retrieval with measure – Based belief function attribute values under intuitionistic fuzzy set	Xue Y., Deng Y., Garg H.	Xue, Y., Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu, 610054, China; Deng, Y., Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu, 610054, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Information Sciences	2021	200255
4335	Fission dynamics of Z=120 superheavy nucleus using ⁶⁴ Ni+ ²³⁸ U reaction	Kaur G., Sharma M.K.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2021	0094243X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4336	System identification of tool chip interface friction while machining CNT-Mg-Al composites	Sekhar R., Ravi.sekhar@sitpune.edu.in, Singh T.P., Shah P.	Sekhar, R., Ravi.sekhar@sitpune.edu.in, Symbiosis Institute of Technology, Symbiosis International, Deemed University, Pune, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Shah, P., Symbiosis Institute of Technology, Symbiosis International, Deemed University, Pune, India	AIP Conference Proceedings	2021	0094243X
4337	Available transfer capability enhancement by facts devices using metaheuristic evolutionary particle swarm optimization (Meeppo) technique	Gupta D., Jain S.K.	Gupta, D., Electrical Engineering Department, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, 140407, India, Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2021	19961073
4338	Interplay of multiphoton absorption, raman scattering and third-order dispersion in soliton fiber lasers	Parmar G.S., Malomed B.A., Jana S.	Parmar, G.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malomed, B.A., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Center for Light-Matter Interaction, Tel Aviv University, Tel Aviv, 69978, Israel, Instituto de Alta Investigación, Universidad de Tarapacá, Casilla 7D, Arica, Chile; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Optical Society of America B: Optical Physics	2021	7403224
4339	Performance and security analysis of novel ZCCRW codes in lower earth orbit based MDM-OWC incorporating hybrid modulations	Kaur R., Kaler R.S.	Kaur, R., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India; Kaler, R.S., Optical Fiber Communication Research Laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab 147004, India	Journal of Electrical Engineering	2021	13353632
4340	A meta-analytical study on the association of human resource management practices with financial, market and operational performance	Kaur S., Kaur G.	Kaur, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	South African Journal of Business Management	2021	20785585
4341	Cloud computing-based framework for breast cancer diagnosis using extreme learning machine	Lahoura V., Singh H., Aggarwal A., Sharma B., Mohammed M.A., Damaševičius R., Kadry S., Cengiz K.	Lahoura, V., Department of Computer Science and Engineering, DAV University, Jalandhar, Punjab 144 012, India; Singh, H., Department of Computer Science and Engineering, DAV University, Jalandhar, Punjab 144 012, India; Aggarwal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh, India; Mohammed, M.A., Information Systems Department, College of Computer Science and Information Technology, University of Anbar, Ramadi, Anbar, 55431, Iraq; Damaševičius, R., Department of Applied Informatics, Vytautas Magnus University, Kaunas, 44404, Lithuania, Faculty of Applied Mathematics, Silesian University of Technology, Gliwice, 44-100, Poland; Kadry, S., Faculty of Applied Computing and Technology (FACT), Noroff University College, Kristiansand, 4608, Norway; Cengiz, K., Department of Electrical-Electronics Engineering, Trakya University, Edirne, 22030, Turkey	Diagnostics	2021	20754418
4342	Efficient Distributed Decryption Scheme for IoT Gateway-based Applications	Peng C., Chen J., Vijayakumar P., Kumar N., He D.	Peng, C., School of Mathematics and Statistics, Wuhan University, Wuhan, China; Chen, J., School of Mathematics and Statistics, Wuhan University, Wuhan, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China	ACM Transactions on Internet Technology	2021	15335399
4343	Analysis of proposed PCF with square air hole for revolutionary high birefringence and nonlinearity	Upadhyay A., Singh S., Sharma D., Taya S.A.	Upadhyay, A., Department of Applied Science & Humanities, Rajkiya Engineering College, Azamgarh, UP, India; Singh, S., Department of Electronics & Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, UP, India; Sharma, D., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Taya, S.A., Department of Physics, Islamic University of Gaza, Gaza Strip, Palestine	Photonics and Nanostructures - Fundamentals and Applications	2021	15694410
4344	Gait recognition based on vision systems: A systematic survey	Kumar M., Singh N., Kumar R., Goel S., Kumar K.	Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Singh, N., Department of Computer Science & Engineering, University College of Engineering, Punjabi University, Patiala, Punjab, India; Kumar, R., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goel, S., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, K., Department of Information Technology, University Institute of Engineering and Technology, Panjab University, Chandigarh, India	Journal of Visual Communication and Image Representation	2021	10473203
4345	Comparative analysis on cross-modal information retrieval: A review	Kaur P., Pannu H.S., Malhi A.K.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Malhi, A.K., Department of Computer Science, Aalto University, Finland	Computer Science Review	2021	15740137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4346	A Survey on IoT Big Data: Current Status, 13 V's Challenges, and Future Directions	Bansal M., Chana I., Clarke S.	Bansal, M., Research Scholar, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Chana, I., Computer Science and Engineering Department, And Dean of Student Affairs (DoSA), Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Clarke, S., School of Computer Science and Statistics, Trinity College, Dublin 2, Ireland	ACM Computing Surveys	2021	3600300
4347	Backscatter-Enabled Efficient V2X Communication with Non-Orthogonal Multiple Access	Khan W.U., Jameel F., Kumar N., Jantti R., Guizani M.	Khan, W.U., School of Information Science and Engineering, Shandong University, Qingdao, China; Jameel, F., Department of Communications and Networking, Aalto University, Espoo, Finland; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering, Punjab, India; Jantti, R., Department of Communications and Networking, Aalto University, Espoo, Finland; Guizani, M., Department of Computer Science and Engineering, Qatar University, Qatar	IEEE Transactions on Vehicular Technology	2021	189545
4348	Development of Reconfigurable Plasma Column Antenna	Kamboj G.K., Yadav R.P., Kaler R.S.	Kamboj, G.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Plasma Science	2021	933813
4349	Critical properties of symmetric nuclear matter in low-density regime using effective-relativistic mean field formalism	Parmar V., Sharma M.K., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400 085, India	Journal of Physics G: Nuclear and Particle Physics	2021	9543899
4350	Screening of potent drug inhibitors against SARS-CoV-2 RNA polymerase: an in silico approach	Singh S.K., Upadhyay A.K., Reddy M.S.	Singh, S.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	3 Biotech	2021	2190572X
4351	Power and energy measurement devices: A review, comparison, discussion, and the future of research	Babuta A., Gupta B., Kumar A., Ganguli S.	Babuta, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, B., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Measurement: Journal of the International Measurement Confederation	2021	2632241
4352	Biosynthesized monodispersed spherical Se co-catalyst nanoparticles impregnated over ZnO for 4-chloroguaiacol degradation under solar irradiations	Aulakh M.K., Pal B., Vaishnav A., Prakash N.T.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute Engineering and Technology, Patiala, Punjab, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute Engineering and Technology, Patiala, Punjab, 147004, India; Vaishnav, A., School of Chemistry and Biochemistry, Thapar Institute Engineering and Technology, Patiala, Punjab, 147004, India; Prakash, N.T., School of Energy and Environment, Thapar Institute Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Environmental Chemical Engineering	2021	22133437
4353	Blockchain and quantum blind signature-based hybrid scheme for healthcare 5.0 applications	Bhavin M., Tanwar S., Sharma N., Tyagi S., Kumar N.	Bhavin, M., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Deemed to be University, Patiala, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Deemed to be University, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, Department of Computer Science, King Abdullah University, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taiwan	Journal of Information Security and Applications	2021	22142134
4354	An Integrated Interval-Valued Intuitionistic Fuzzy Vague Set and Their Linguistic Variables	Zulkifli N., Abdullah L., Garg H.	Zulkifli, N., Department of Mathematics, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Kuala Nerus, 21030, Malaysia; Abdullah, L., Department of Mathematics, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Kuala Nerus, 21030, Malaysia; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala, Patiala, India	International Journal of Fuzzy Systems	2021	15622479
4355	Design and modelling of a self-dispersing twisted pipe to mitigate settling in coal water suspension	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jamshedpur, Jharkhand 831014, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Advanced Powder Technology	2021	9218831
4356	Analytical Frequency-Domain Model for Coupled Interconnects of Doped Multilayer Graphene Nanoribbons and Mixed Carbon Nanotube Bundles	Kaur T., Kumar Rai M., Khanna R.	Kaur, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar Rai, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Physica Status Solidi (A) Applications and Materials Science	2021	18626300

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4357	Synergistic degradation employing photocatalysis and photo-Fenton process of real industrial pharmaceutical effluent utilizing the Iron-Titanium dioxide composite	Talwar S., Verma A.K., Sangal V.K.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, India	Process Safety and Environmental Protection	2021	9575820
4358	Nitrogen-doped graphene supported copper nanoparticles for electrochemical reduction of CO2	Dongare S., Singh N., Bhunia H.	Dongare, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala Punjab, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala Punjab, 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala Punjab, 147004, India	Journal of CO2 Utilization	2021	22129820
4359	Novel SVPWM technique for three-level T-type Z-source inverters	Singh S., Sonar S.	Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Power Electronics	2021	15982092
4360	Chirp multiplexing and filtering in the offset linear canonical transform domain	Goel N., Gabarda S., Singh K.	Goel, N., Electronics and Communication Engineering Section, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab 151302, India; Gabarda, S., Instituto de Óptica Daza de Valdés (CSIC), Serrano 121, Madrid, 28006, Spain; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab 147001, India	Optik	2021	304026
4361	Low bioavailability hinders drug discovery against COVID-19, guided by in silico docking	Dey P.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	British Journal of Pharmacology	2021	71188
4362	Numerical analysis on solid particle erosion in elbow of a slurry conveying circuit	Singh J., Singh J.P.	Singh, J., Dept. of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, J.P., School of Mechanical Engineering, Lovely Professional Univ., Phagwara, Punjab, 144411, India	Journal of Pipeline Systems Engineering and Practice	2021	19491190
4363	Durability of Mortars Made with Recycled Plastic Aggregates: Resistance to Frost Action, Salt Crystallization, and Cyclic Thermal-Moisture Variations	Kaur G., Pavia S.	Kaur, G., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Pavia, S., Dept. of Civil, Structural and Environmental Engineering, Trinity College Dublin, Dublin 2, Ireland	Journal of Materials in Civil Engineering	2021	8991561
4364	Group V Elements (V, Nb and Ta) Doped CeO2 Particles for Efficient Photo-Oxidation of Methylene Blue Dye	Chanu W.C., Gupta A., Singh M.K., Pandey O.P.	Chanu, W.C., Department of Nanoscience and Technology, Mount Carmel College (Autonomous), Bangalore, 560052, India; Gupta, A., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M.K., Force Microscopy Lab, Department of Mechanical Engineering, Indian Institute of Science, Bangalore, 560012, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Inorganic and Organometallic Polymers and Materials	2021	15741443
4365	Ensembled liver cancer detection and classification using CT images	Krishan A., Mittal D.	Krishan, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mittal, D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2021	9544119
4366	An enhanced reversible patient data hiding algorithm for E-healthcare	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biomedical Signal Processing and Control	2021	17468094
4367	Proton Nuclear Magnetic Resonance-Based Method for the Quantification of Epoxidized Methyl Oleate	Kaur A., Bhardwaj N., Kaur A., Abida K., Nagaraja T.P., Ali A., Prakash R.	Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhardwaj, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Abida, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nagaraja, T.P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	JAOCs, Journal of the American Oil Chemists' Society	2021	0003021X
4368	Influence of vanadium oxide on non-isothermal crystallization kinetics of zinc lithium borate glasses	Danewalia S.S., Singh K., Arya S.K.	Danewalia, S.S., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arya, S.K., Department of Applied Sciences & Humanities, ABES Institute of Technology, Ghaziabad, UP 201009, India	Journal of Non-Crystalline Solids	2021	223093

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4369	Synthesis, characterization, drug loading and in-vitro bioactivity studies of rice husk derived SiO ₂ -P ₂ O ₅ -MgO-CaO-SrO bio-active glasses	Kaur D., Reddy M.S., Pandey O.P.	Kaur, D., School of Physics and Materials Science, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Patiala, 147004, India	Journal of Drug Delivery Science and Technology	2021	17732247
4370	A comprehensive taxonomy for structure and material deficiencies, preventions and remedies of timber bridges	Rashidi M., Hoshyar A.N., Smith L., Bijan Samali, Siddique R.	Rashidi, M., School of Engineering, Western Sydney University New South Wales, Australia; Hoshyar, A.N., Federation University, Brisbane, Queensland, Australia; Smith, L., Douglas Partners New South Wales, Australia; Bijan Samali, School of Engineering, Western Sydney University New South Wales, Australia; Siddique, R., Thapar Institute of Engineering & Technology, Patiala, India	Journal of Building Engineering	2021	23527102
4371	A comprehensive survey on passive techniques for digital video forgery detection	Shelke N.A., Kasana S.S.	Shelke, N.A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kasana, S.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
4372	Capacity Analysis of Hybrid MIMO Using Sparse Signal Processing in mmW 5G Heterogeneous Wireless Networks	Chopra S., Kakkar A.	Chopra, S., T.I.E.T., Patiala, Punjab, India; Kakkar, A., T.I.E.T., Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
4373	Role of ACE2 receptor and the landscape of treatment options from convalescent plasma therapy to the drug repurposing in COVID-19	Kumar P., Sah A.K., Tripathi G., Kashyap A., Tripathi A., Rao R., Mishra P.C., Mallick K., Husain A., Kashyap M.K.	Kumar, P., School of Life & Allied Health Sciences, The Glocal University, Saharanpur, UP, India; Sah, A.K., Department of Medical Laboratory Technology, Amity Medical School, Amity University Haryana, Panchgaon, Manesar, Gurugram, Haryana, India; Tripathi, G., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Manesar, Gurugram, Haryana 122413, India; Kashyap, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Tripathi, A., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Manesar, Gurugram, Haryana 122413, India; Rao, R., School of Life & Allied Health Sciences, The Glocal University, Saharanpur, UP, India; Mishra, P.C., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Manesar, Gurugram, Haryana 122413, India; Mallick, K., National Liver Disease Biobank, Institute of Liver and Biliary Sciences, New Delhi, India; Husain, A., Centre for Science & Society, Indian Institute of Science Education and Research, Bhopal, India, Innovation and Incubation Centre for Entrepreneurship (IICE), Indian Institute of Science Education and Research, Bhopal, India; Kashyap, M.K., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Panchgaon, Manesar, Gurugram, Haryana 122413, India	Molecular and Cellular Biochemistry	2021	3008177
4374	Performance analysis of MCB-based VLSI interconnects depending on scattering induced by substrate surface roughness	Sharma M., Rai M.K., Khanna R.	Sharma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Computational Electronics	2021	15698025
4375	Evaluating the role of composition and local structure on alkali ion-diffusion in glasses for thin-film solar cells	Bansal N., Gupta M., Mohanty B.C., Singh K.	Bansal, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, M., UGC-DAE Consortium for Scientific Research, University Campus, Indore, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of the American Ceramic Society	2021	27820
4376	Convolutional neural network-bagged decision tree: a hybrid approach to reduce electric vehicle's driver's range anxiety by estimating energy consumption in real-time	Modi S., Bhattacharya J., Basak P.	Modi, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Bhattacharya, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Soft Computing	2021	14327643
4377	Cavitation erosion behavior of microwave-processed Ni-40Cr3C2 composite clads: A parametric investigation using ultrasonic apparatus	Mago J., Bansal S., Gupta D., Jain V.	Mago, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2021	14644207
4378	Naked Mole-Rat Algorithm with Improved Exploration and Exploitation Capabilities to Determine 2D and 3D Coordinates of Sensor Nodes in WSNs	Singh P., Mittal N., Singh U., Salgotra R.	Singh, P., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2021	2193567X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4379	Monitoring the flexural performance of GFRP repaired corroded reinforced concrete beams using passive acoustic emission technique	Garhwal S., Sharma S., Sharma S.K.	Garhwal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Structural Concrete	2021	14644177
4380	Mixed CNT bundles as VLSI interconnects for nanoscale technology nodes	Dhillon G., Sandha K.S.	Dhillon, G., Thapar Institute of Engineering and Technology, Patiala, India; Sandha, K.S., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Computational Electronics	2021	15698025
4381	A two element MIMO antenna for sub-6 GHz and mmWave 5G systems using characteristics mode analysis	Kumar N., Khanna R.	Kumar, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Microwave and Optical Technology Letters	2021	8952477
4382	EEG-Based Pathology Detection for Home Health Monitoring	Muhammad G., Hossain M.S., Kumar N.	Muhammad, G., Department of Computer Engineering, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia; Hossain, M.S., Department of Software Engineering, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IEEE Journal on Selected Areas in Communications	2021	7338716
4383	Temperature-Dependent Circuit Modeling and Performance Evaluation Due to Crosstalk in Capacitively Coupled Interconnects of Intercalation-Doped Multilayer Graphene Nanoribbon	Kaur T., Rai M.K., Khanna R.	Kaur, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Rai, M.K., Department of Electronics and Communication Engineering and Technology, Patiala, Punjab 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Arabian Journal for Science and Engineering	2021	2193567X
4384	An improved reversible and secure patient data hiding algorithm for telemedicine applications	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
4385	Power system stability enhancement by damping and control of Sub-synchronous torsional oscillations using Whale optimization algorithm based Type-2 wind turbines	Kumar R., Singh R., Ashfaq H., Singh S.K., Badoni M.	Kumar, R., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, India, Electrical and Electronics Engineering Department, Krishna Institute of Engineering and Technology, Ghaziabad, India; Singh, R., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, India; Ashfaq, H., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, India; Singh, S.K., Electrical Engineering Department, Jamia Millia Islamia, New Delhi, India, Electrical and Electronics Engineering Department, Krishna Institute of Engineering and Technology, Ghaziabad, India; Badoni, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	ISA Transactions	2021	190578
4386	Skin and brain implantable inset-fed antenna at ISM band for wireless biotelemetry applications	Singh G., Kaur J.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Microwave and Optical Technology Letters	2021	8952477
4387	Self adaptive cuckoo search: Analysis and experimentation	Salgotra R., Singh U., Saha S., Gandomi A.H.	Salgotra, R., Dept. of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Dept. of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Saha, S., Dept. of Computer Science, Indian Institute of Technology, Patna, India; Gandomi, A.H., Faculty of Engineering and Information Technology, University of Technology Sydney, Australia	Swarm and Evolutionary Computation	2021	22106502
4388	Development of an adaptive neuro fuzzy inference system based vehicular traffic noise prediction model	Singh D., Upadhyay R., Pannu H.S., Leray D.	Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Engineering, Trinity College Dublin, Dublin, Ireland; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Engineering, Trinity College Dublin, Dublin, Ireland; Pannu, H.S., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Engineering, Trinity College Dublin, Dublin, Ireland; Leray, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Engineering, Trinity College Dublin, Dublin, Ireland, INSA, Toulouse, France	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
4389	Online handwriting recognition systems for Indic and non-Indic scripts: a review	Singh H., Sharma R.K., Singh V.P.	Singh, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, V.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Artificial Intelligence Review	2021	2692821
4390	Magnetorheological finishing of copper cylindrical roller for its improved performance in printing machine	Singh M., Singh A.K.	Singh, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021	9544089

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4391	Non-interactive approach to solve multi-objective optimal power flow problem	Kaur M., Narang N.	Kaur, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Electrical Engineering	2021	9487921
4392	Improving neural machine translation for low-resource Indian languages using rule-based feature extraction	Singh M., Kumar R., Chana I.	Singh, M., Language Engineering and Machine Learning Research Labs, CSED, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Kumar, R., CSED, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Chana, I., CSED, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Neural Computing and Applications	2021	9410643
4393	Design of a wearable MIMO antenna deployed with an inverted U-shaped ground stub for diversity performance enhancement	Gupta A., Kansal A., Chawla P.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, India; Chawla, P., Department of Electronics and Communication Engineering, University Institute of Engineering, Chandigarh University, Chandigarh, India	International Journal of Microwave and Wireless Technologies	2021	17590787
4394	Adsorptive interaction of ortho-phenylenediamine with commercial activated carbon in presence of Indole and vice versa: synergistic/antagonistic evaluation	Rathi N., Kushwaha J.P., Singh N., Toor S.K., Rajani N., Kumawat P.K.	Rathi, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Toor, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rajani, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumawat, P.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Environment, Development and Sustainability	2021	1387585X
4395	Improved performance of a nanorefrigerant-based vapor compression refrigeration system: A new alternative	Kundan L., Singh K.	Kundan, L., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, India; Singh, K., School of Mechanical, Materials and Energy Engineering, IIT Ropar, Rupnagar, India	Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy	2021	9576509
4396	Lubricated tribology of hybrid AMMC–steel sliding contact: A comparative investigation between fully formulated commercial engine oils and surfactant functionalized MWCNT–base oil formulation	Singh H., Bhowmick H.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2021	13506501
4397	Symmetrical and Asymmetrical Reduced Device Multilevel Inverter Topology	Chappa A., Gupta S., Sahu L.K., Gautam S.P., Gupta K.K.	Chappa, A., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, 492010, India; Gupta, S., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, 492010, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, 492010, India; Gautam, S.P., School of Electronics Engineering, KIIT University, Bhubaneswar, 751024, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Journal of Emerging and Selected Topics in Power Electronics	2021	21686777
4398	Cubic q-Rung Orthopair Fuzzy Linguistic Set and Their Application to Multiattribute Decision-making with Muirhead Mean Operator	Garg H., Mahmood T., Ahmmad J., Khan Q., Ali Z.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan; Ahmmad, J., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan; Khan, Q., Department of Mathematics, Northern University, Nowshera, Pakistan; Ali, Z., Department of Mathematics and Statistics, International Islamic University, Islamabad, Pakistan	Journal of Artificial Intelligence and Technology	2021	27668649
4399	Electrocatalytic reduction of CO2 to useful chemicals on copper nanoparticles	Dongare S., Singh N., Bhunia H.	Dongare, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab 147004, India	Applied Surface Science	2021	1694332
4400	A Short Review on Polymer, Metal and Ceramic Based Implant Materials	Shekhawat D., Singh A., Bhardwaj A., Patnaik A.	Shekhawat, D., Mechanical Engineering Department, MNIT Jaipur, Rajasthan, 302017, India; Singh, A., Mechanical Engineering Department, MNIT Jaipur, Rajasthan, 302017, India; Bhardwaj, A., Department of Mechanical Engineering, Thapar Institute of Technology, Patiala, 147003, India; Patnaik, A., Mechanical Engineering Department, MNIT Jaipur, Rajasthan, 302017, India	IOP Conference Series: Materials Science and Engineering	2021	17578981
4401	Ratiometric chemosensor for differentiation of TNP from other NACs using distinct blue fluorescence and visualization of latent fingerprints	Dhiman S., Ahmad M., Kumar G., Luxami V., Singh P., Kumar S.	Dhiman, S., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India; Ahmad, M., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, P., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India; Kumar, S., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India	Journal of Materials Chemistry C	2021	20507534

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4402	Fabrication of centimeter-sized Sb ₂ S ₃ /SiO ₂ monolithic mimosa pudica nanoflowers for remediation of hazardous pollutants from industrial wastewater	Sharma S., Basu S.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Cleaner Production	2021	9596526
4403	Behavioral reasoning theory (BRT) perspectives on E-waste recycling and management	Dhir A., Koshta N., Goyal R.K., Sakashita M., Almotairi M.	Dhir, A., Department of Management, School of Business & Law, University of Agder, Kristians, Norway, Norwegian School of Hotel Management, University of Stavanger, Stavanger, Norway, Optentia Research Focus Area, North-West University, Vanderbijlpark, South Africa; Koshta, N., Indian Institute of Management Kashipur, Kashipur, Uttarakhand, India; Goyal, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sakashita, M., Graduate School of Business Administration, Keio University, Japan; Almotairi, M., College of Business Administration, King Saud University, Saudi Arabia	Journal of Cleaner Production	2021	9596526
4404	Comparative Study of Optical and Structural Properties of PANI and PANI/CNT Synthesized by Chemical Oxidative Polymerization Method	Prashar A., Nihal	Prashar, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nihal, Panjab University, Chandigarh, 160014, India	IOP Conference Series: Materials Science and Engineering	2021	17578981
4405	The Comprehensive Review on machining of Inconel 718 superalloy	Shard A., Deepshikha, Gupta V., Garg M.P.	Shard, A., Department of Mechanical Engineering, DAV University, Jalandhar, 144001, India; Deepshikha, School of Physics and Materials Science Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Jalandhar, 144001, India	IOP Conference Series: Materials Science and Engineering	2021	17578981
4406	Effect of strain-induced orbital splitting on the magnetic excitations in undoped cuprates	Singh D.K., Bang Y.	Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bang, Y., Department of Physics, POSTECH, Pohang, 790-784, South Korea, Asia Pacific Center for Theoretical Physics, Pohang, Gyeongbuk, 790-784, South Korea	Physical Review B	2021	24699950
4407	Quality assessment of leaves quality using texture and DWT based local feature extraction analysis	Dhingra G., Kumar V., Joshi H.D.	Dhingra, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Chemometrics and Intelligent Laboratory Systems	2021	1697439
4408	Influence of two different range of sillimanite particle reinforcement on tribological characteristics of LM30 based composites under elevated temperature conditions	Sharma S., Gupta R., Nanda T., Pandey O.P.	Sharma, S., Mechanical Engineering Department (MED), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Gupta, R., Mechanical Engineering Department (MED), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Nanda, T., Mechanical Engineering Department (MED), Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab 147004, India; Pandey, O.P., School of Physics and Materials Science (SPMS), TIET, Patiala, Punjab 147004, India	Materials Chemistry and Physics	2021	2540584
4409	A cost-effective approach for assessment of pre-stressing force in bridges using piezoelectric transducers	Kaur N., Goyal S., Anand K., Sahu G.K.	Kaur, N., Bridge Engineering and Structures (BES) Division, CSIR-Central Road Research Institute (CRRI), Mathura Road, New Delhi, 110025, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sahu, G.K., Bridge Engineering and Structures (BES) Division, CSIR-Central Road Research Institute (CRRI), Mathura Road, New Delhi, 110025, India	Measurement: Journal of the International Measurement Confederation	2021	2632241
4410	New QTLs for Spot Blotch Disease Resistance in Wheat (<i>Triticum aestivum</i> L.) Using Genome-Wide Association Mapping	Tomar V., Singh D., Dhillon G.S., Singh R.P., Poland J., Joshi A.K., Singh P.K., Bhati P.K., Kumar S., Rahman M., Tiwari B.S., Kumar U.	Tomar, V., Borlaug Institute for South Asia, Ludhiana, India, Institute of Advanced Research, Gandhinagar, Gujarat, India; Singh, D., The Climate Corporation, Bayer Crop Science, Creve Coeur, MO, United States; Dhillon, G.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R.P., Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico; Poland, J., Department of Plant Pathology, Kansas State University, Manhattan, KS, United States; Joshi, A.K., Borlaug Institute for South Asia, Ludhiana, India, International Maize and Wheat Improvement Centre, New Delhi, India; Singh, P.K., Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico; Bhati, P.K., Borlaug Institute for South Asia, Ludhiana, India; Kumar, S., Borlaug Institute for South Asia, Ludhiana, India; Rahman, M., Wheat Research Center, Regional Agricultural Research Station, Bangladesh Agricultural Research Institute, Jamalpur, Bangladesh; Tiwari, B.S., Institute of Advanced Research, Gandhinagar, Gujarat, India; Kumar, U., Borlaug Institute for South Asia, Ludhiana, India, Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Texcoco, Mexico	Frontiers in Genetics	2021	16648021

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4411	Experimental investigation for splice strength of deformed steel bars in normal-, medium- and high-strength recycled aggregate concrete	Gaurav G., Singh B.	Gaurav, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, B., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India	Construction and Building Materials	2021	9500618
4412	A Single-Phase Step-Up 5-level Switched-Capacitor Inverter with Reduced Device Count	Jena K., Panigrahi C.K., Gupta K.K.	Jena, K., School of Electrical Engineering, KIIT-DU, Bhubaneswar, India; Panigrahi, C.K., School of Electrical Engineering, KIIT-DU, Bhubaneswar, India; Gupta, K.K., Tiet, Department of E&I Engineering, Patiala, India	ICPEE 2021 - 2021 1st International Conference on Power Electronics and Energy	2021	
4413	A non-linear convolution network for image processing	Marsi S., Bhattacharya J., Molina R., Ramponi G.	Marsi, S., Engineering and Architecture Department, Image Processing Laboratory (IPL), University of Trieste, Trieste, 34127, Italy; Bhattacharya, J., CSED, Thapar University, Punjab, 147004, India; Molina, R., Engineering and Architecture Department, Image Processing Laboratory (IPL), University of Trieste, Trieste, 34127, Italy, Electronic Department, National University of San Luis (UNSL), San Luis, D5700HHW, Argentina, MLAB, The Abdus Salam International Centre for Theoretical Physics, Trieste, 34100, Italy; Ramponi, G., Engineering and Architecture Department, Image Processing Laboratory (IPL), University of Trieste, Trieste, 34127, Italy	Electronics (Switzerland)	2021	20799292
4414	Selection of optimal software reliability growth models using an integrated entropy–Technique for Order Preference by Similarity to an Ideal Solution (TOPSIS) approach	Kumar V., Saxena P., Garg H.	Kumar, V., Department of Mathematics, Amity Institute of Applied Sciences, Amity University Uttar Pradesh, Noida, India; Saxena, P., Department of Mathematics, Amity Institute of Applied Sciences, Amity University Uttar Pradesh, Noida, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	Mathematical Methods in the Applied Sciences	2021	1704214
4415	Hot Cracking Susceptibility: An Effect of Solidification Modes of SS Consumables During Bimetallic Welds	Rathod D.W., Sharma S.K., Pandey S.	Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, S., Department of Mechanical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India	Lecture Notes on Multidisciplinary Industrial Engineering	2021	25225022
4416	Magnetically Recyclable Photocatalysts for Degradation of Organic Pollutants in Aquatic Environment	Kumar A., Kumar S.	Kumar, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, S., Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India	Nanostructured Materials for Environmental Applications	2021	
4417	Pythagorean Fuzzy Sets: Theory and Applications	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, India	Pythagorean Fuzzy Sets: Theory and Applications	2021	
4418	Preface	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, India	Pythagorean Fuzzy Sets: Theory and Applications	2021	
4419	Traditional Medicine Stability and Pharmacokinetic Issue	Kaur P., Sharma S., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry And Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., School of Chemistry and Biochemistry And Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Choudhury, D., School of Chemistry and Biochemistry And Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Evidence Based Validation of Traditional Medicines: A Comprehensive Approach	2021	
4420	Developments in Endophytic Fungal Research in India	Gupta A., Vasundhara M., Singh A., Kharwar R.N.	Gupta, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, A., Department of Botany, MMV, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Kharwar, R.N., CAS in Botany, Institute of Science, Banaras Hindu University, Varanasi, India	Progress in Mycology: An Indian Perspective	2021	
4421	Different Approaches Used for Conversion of Biomaterials to Feedstock	Bhattacharjee S., Singh H.	Bhattacharjee, S., Department of Physics and Nanotechnology, SRM Institute of Science and Technology (Deemed to be University), Chennai, India; Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Applications of 3D Printing in Biomedical Engineering	2021	
4422	The Distinction of Omics in Amelioration of Food Crops Nutritional Value	Singh B., Mohanty D., Bakshi V., Gujjar R.S., Upadhyay A.K.	Singh, B., Department of Biotechnology, Lovely Professional University, Jalandhar, India; Mohanty, D., Department of Pharmaceuticals, Anurag University, Hyderabad, India; Bakshi, V., Department of Pharmaceuticals, Anurag University, Hyderabad, India; Gujjar, R.S., Division of Crop Improvement, Indian Institute of Sugarcane Research, Lucknow, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Bioinformatics for agriculture: High-throughput approaches	2021	
4423	Bioinformatics for agriculture: High-throughput approaches	Upadhyay A.K., Sowdhamini R., Patil V.U.	Upadhyay, A.K., Department of Biotechnology, Thapar University, Patiala, India; Sowdhamini, R., Department of Biochemistry Biophysics and Bioinformatics, National Centre for Biological Sciences, Bangalore, India; Patil, V.U., Division of Crop Improvement, Central Potato Research Institute, Shimla, India	Bioinformatics for Agriculture: High-Throughput Approaches	2021	
4424	Introduction to the Concepts of Agr-Informatics	Singh S., Haque M.A., Silakari O.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Haque, M.A., Department of Pharmaceutical Analysis, Anurag University, Hyderabad, India; Silakari, O., Department of Pharmaceutical Science and Drug Research, Punjabi University, Patiala, India	Bioinformatics for agriculture: High-throughput approaches	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4425	Biologically Active Secondary Metabolites from Endophytic <i>Alternaria</i> Species	Saxena S.	Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Endophytes: Potential Source of Compounds of Commercial and Therapeutic Applications	2021	
4426	An Overview to Quantitative Risk Assessment Methodologies	Arora A.S., Changotra R., Rajput H.	Arora, A.S., School of Chemical Engineering, Yeungnam University Gyeongsan, South Korea; Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Bow Ties in Process Safety and Environmental Management: Current Trends and Future Perspectives	2021	
4427	Comparative Assessment and Validation of USEPA Air Quality Modelling Techniques Using Pre-Post Point-Source Observations Near a Coal-Based Thermal Power Plant	Changotra R., Singh Arora A., Rajput H., Dhir A.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Singh Arora, A., Arora School of Chemical Engineering, Yeungnam University, Gyeongsan, South Korea; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Bow Ties in Process Safety and Environmental Management: Current Trends and Future Perspectives	2021	
4428	Processing of Polymers and Their Composites: A Review	Singh J., Singh K., Saini J.S., Hashmi M.S.J.	Singh, J., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saini, J.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Hashmi, M.S.J., Dublin City University, Dublin, Ireland	Encyclopedia of Materials: Composites	2021	
4429	Product Sustainability Assessment	Singh H., Bhattacharjee S.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhattacharjee, S., Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Chennai, India	Applications of 3D Printing in Biomedical Engineering	2021	
4430	Digital Image Forensic Approach to Counter the JPEG Anti-Forensic Attacks	Kumar A., Singh G., Kansal A., Singh K.	Kumar, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Singh, G., Department of Computer Science, IIT, Rupnagar, Ropar, 140001, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India	IEEE Access	2021	21693536
4431	Social Commerce: A Bibliometric Analysis and Future Research Directions	Goyal S., Hu C., Chauhan S., Gupta P., Bhardwaj A.K., Mahindroo A.	Goyal, S., L M Thapar School of Management, Thapar Institute of Engineering and Technology, India; Hu, C., School of Information Management, Shanghai Lixin University of Accounting and Finance, China; Chauhan, S., O.P. Jindal Global University, Haryana, Sonapat, India; Gupta, P., Management Development Institute, Gurgaon, India; Bhardwaj, A.K., L M Thapar School of Management, Thapar Institute of Engineering and Technology, India; Mahindroo, A., L M Thapar School of Management, Thapar Institute of Engineering and Technology, India	Journal of Global Information Management	2021	10627375
4432	Internet of Robotic Things (IoRT) and Its Manifold Applications: An Overview	Srivastava Y., Virk S., Ganguli S., Tripathi S.L.	Srivastava, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Virk, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Tripathi, S.L., School of Electronics and Electrical Engineering, Lovely Professional University, India	Internet of Things: Robotic and Drone Technology	2021	
4433	Smart Cities and the Use of Internet of Drone Things (IoDT)	Srivastava Y., Virk S., Ganguli S., Tripathi S.L.	Srivastava, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Virk, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Tripathi, S.L., School of Electronics and Electrical Engineering, Lovely Professional University, India	Internet of Things: Robotic and Drone Technology	2021	
4434	The Roles of Artificial Intelligence, Machine Learning, and IoT in Robotic Applications	Kaur J., Ganguli S., Tripathi S.L.	Kaur, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Tripathi, S.L., School of Electronics and Electrical Engineering, Lovely Professional University, India	Internet of Things: Robotic and Drone Technology	2021	
4435	Role of nanomaterials in protecting building materials from degradation and deterioration	Dhiman N.K., Sidhu N., Agnihotri S., Mukherjee A., Reddy M.S.	Dhiman, N.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Sidhu, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Sonapat, India; Mukherjee, A., Department of Civil Engineering, Curtin University, Bentley, WA, Australia; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Biodegradation and Biodeterioration at the Nanoscale	2021	
4436	Advanced modifications in nonnoble materials for proton exchange membrane	Mir R.A., Kaur G.	Mir, R.A., FML, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Kaur, G., Simon Fraser University (SFU), Burnaby, BC, Canada	PEM Fuel Cells: Fundamentals, Advanced Technologies, and Practical Application	2021	
4437	Techno-economic feasibility and hurdles on agricultural waste management	Dhamodharan K., Konduru T., Kannan M., Malyan S.K.	Dhamodharan, K., Institute of Soil, Water and Environmental Science, Agricultural Research Organization, Bet Dagan, Israel, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Konduru, T., College of Engineering, University of Georgia, Athens, GA, United States; Kannan, M., Institute of Plant Protection, Agricultural Research Organization, Bet Dagan, Israel; Malyan, S.K., National Institute of Hydrology, Uttarakhand, Roorkee, India	Emerging Trends to Approaching Zero Waste: Environmental and Social Perspectives	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4438	Clinical trials in drug delivery for the treatment of cancer	Kumar N., Kumar V., Shrivastava P., Mehra A., Patwal T., Maurya P.K.	Kumar, N., Amity University, Noida, India; Kumar, V., Amity University, Noida, India; Shrivastava, P., Amity University, Noida, India; Mehra, A., Amity University, Noida, India; Patwal, T., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Maurya, P.K., Department of Biochemistry, Central University of Haryana, Haryana, Mahendergarh, India	Advanced Drug Delivery Systems in the Management of Cancer	2021	
4439	A Study and Novel AI/ML-Based Framework to Detect COVID-19 Virus Using Smartphone Embedded Sensors	Sharma M., Sharma B., Gupta A.K., Khosla D., Goyal S., Pandey D.	Sharma, M., Department of ECE, Chandigarh Group of Colleges, Landran, Mohali, India; Sharma, B., Department of ME, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, A.K., Department of CSE, Chandigarh Group of Colleges, Landran, Mohali, India; Khosla, D., Department of ECE, Chandigarh Group of Colleges, Landran, Mohali, India; Goyal, S., Department of Applied Science, Chandigarh Group of Colleges, Landran, Mohali, India; Pandey, D., Department of Technical Education, IET, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow, India	Sustainability Measures for COVID-19 Pandemic	2021	
4440	Legacy of Honor and Violence: An Analysis of Factors Responsible for Honor Killings in Afghanistan, Canada, India, and Pakistan as Discussed in Selected Documentaries on Real Cases	Singh D., Bhandari D.S.	Singh, D., Thapar Institute of Engineering and Technology, Patiala, India; Bhandari, D.S., Shree Guru Gobind Singh Ji Government Degree College, Paonta Sahib, India	SAGE Open	2021	21582440
4441	Investigation Into Cloud Computing Adoption Within the Hedge Fund Industry	Cole T., Bhardwaj A.K., Garg L., Shrivastava D.P.	Cole, T., University of Liverpool, Liverpool, United Kingdom; Bhardwaj, A.K., Thapar University, Dera Bassi, India; Garg, L., Department of Computer Information Systems, University of Malta, Msida, Malta; Shrivastava, D.P., Higher Colleges of Technology, Dubai, United Arab Emirates	Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing	2021	
4442	Food Allergens and Related Computational Biology Approaches: A Requisite for a Healthy Life	Singh B., Karnwal A., Tripathi A., Upadhyay A.K.	Singh, B., School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar, India; Karnwal, A., School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar, India; Tripathi, A., Food, Drug and Chemical Toxicology Group, CSIR-Indian Institute of Toxicology Research, Vishvgyan Bhawan, Lucknow, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Bioinformatics for agriculture: High-throughput approaches	2021	
4443	Multiple-ensemble methods for prediction of Alzheimer disease	Singh D., Mishra A.	Singh, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mishra, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Data Mining and Bioinformatics	2021	17485673
4444	Classification of Hate, Offensive and Profane content from Tweets using an Ensemble of Deep Contextualized and Domain Specific Representations	Chinagundi B., Singh M., Ghosal T., Rana P.S., Kohli G.S.	Chinagundi, B., Thapar Institute of Engineering and Technology, India; Singh, M., Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University, Czech Republic; Ghosal, T., Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University, Czech Republic; Rana, P.S., Thapar Institute of Engineering and Technology, India; Kohli, G.S., Thapar Institute of Engineering and Technology, India	CEUR Workshop Proceedings	2021	16130073
4445	Proton exchange membrane fuel cells: Fundamentals, advanced technologies, and practical applications	Sharma P., Pandey O.P.	Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, India	PEM Fuel Cells: Fundamentals, Advanced Technologies, and Practical Application	2021	
4446	An Intelligent Computing Technique for Parameter Extraction of Different Photovoltaic (PV) Models	Goyal S., Nijhawan P., Ganguli S.	Goyal, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Nijhawan, P., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Ganguli, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Electrical and Electronic Devices, Circuits, and Materials: Technological Challenges and Solutions	2021	
4447	Performance Analysis of Some New Hybrid Metaheuristic Algorithms for High Dimensional Optimization Problems	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training and Research, West Bengal, Kolkata, India	Electrical and Electronic Devices, Circuits, and Materials: Technological Challenges and Solutions	2021	
4448	Parameter Estimation of Solar Cells: A Multi-Objective Approach	Hazra S., Ganguli S.	Hazra, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Electrical and Electronic Devices, Circuits, and Materials: Technological Challenges and Solutions	2021	
4449	A Blockchain-based Approach for Educators' Profile Management and Reward system	Kaur P., Parashar A., Duggal K., Sunita	Kaur, P., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Parashar, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Duggal, K., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Sunita, Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	Proceedings - 2021 International Conference on Computing Sciences, ICCS 2021	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4450	Recent Advancements in Medical Imaging: A Machine Learning Approach	Dang N., Tiwari S., Khurana M., Arya K.V.	Dang, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Khurana, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Arya, K.V., Multimedia and Information Security Research Group, ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India	Studies in Big Data	2021	21976503
4451	Multicriteria decision making based optimum virtual machine selection technique for smart cloud environment	Singh R., Singh M., Garg S., Perl I., Kalyonova O., Penskoj A.	Singh, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garg, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Perl, I., Faculty of Software Engineering and Computer Systems, ITMO University, Saint Petersburg, Russian Federation; Kalyonova, O., Faculty of Software Engineering and Computer Systems, ITMO University, Saint Petersburg, Russian Federation; Penskoj, A., Faculty of Software Engineering and Computer Systems, ITMO University, Saint Petersburg, Russian Federation	Journal of Ambient Intelligence and Smart Environments	2021	18761364
4452	Machine Learning for Optical Character Recognition System	Kaur G., Garg T.	Kaur, G., Department of Computer Science and Engineering, Gulzar Group of Institutes, Khanna, India; Garg, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Machine Vision Inspection Systems: Volume 2: Machine Learning-Based Approaches	2021	
4453	Digital Marketing: A Sustainable Way to Thrive in Competition of Agriculture Marketing	Bose S.C., Kiran R.	Bose, S.C., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Bioinformatics for agriculture: High-throughput approaches	2021	
4454	Smart Computing and Self-Adaptive Systems	Singh S.P., Solanki A., Sharma A., Polkowski Z., Kumar R.	Singh, S.P., School of Computer Science Engineering and Technology (SCSET), Bennett University, Uttar Pradesh, Greater Noida, India; Solanki, A., Department of Computer Science and Engineering, Gautam Buddha University, Uttar Pradesh, Greater Noida, India; Sharma, A., Punjab State Aeronautical Engineering College, Constituent College of Maharaja Ranjit Singh Punjab Technical University, Bathinda, Patiala, India; Polkowski, Z., Karkonosze State University of Applied Sciences, Jelenia Góra, Poland, UJW, Faculty of Technical Sciences, International Cooperation and Erasmus+ Program, Jan Wyzykowski University Polkowice, Jelenia Góra, Poland; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Smart Computing and Self-Adaptive Systems	2021	
4455	Green Pulp and Paper Industry: Biotechnology for Ecofriendly Processing	Kumar A., Pathak P., Dutt D.	Kumar, A., Department of Biotechnology, College of Natural and Computational Sciences, Debre Markos University (Ethiopia), Gojjam, Debre Markos, Ethiopia; Pathak, P., Nanotechnology and Advanced Biomaterials, Avantha Centre for Industrial Research and Development, Thapar Institute of Engineering and Technology Campus, Punjab, Patiala, 147004, India; Dutt, D., Department of Paper Technology, Indian Institute of Technology Roorkee, Saharanpur Campus 247001, India	Green Pulp and Paper Industry: Biotechnology for Ecofriendly Processing	2021	
4456	Cellulose and extracellular polymer recovery from sludge	Mohanty A., Meena S.S., Pathak P., Rout P.R.	Mohanty, A., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), Punjab, Jalandhar, India; Meena, S.S., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), Punjab, Jalandhar, India; Pathak, P., Department of Environmental Science, SRM University, Andhra Pradesh, India, School of Environmental Science, SRM University, Andhra Pradesh, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Clean Energy and Resource Recovery: Wastewater Treatment Plants as Biorefineries, Volume 2	2021	
4457	Water reclamation, recycle, and reuse	Shahid M.K., Kashif A., Pathak P., Choi Y., Rout P.R.	Shahid, M.K., Research Institute of Environment and Biosystem, Chungnam National University, Daejeon, South Korea; Kashif, A., Department of Senior Health Care, Eulji University, Daejeon, South Korea; Pathak, P., School of Environmental Science, SRM University, Andhra Pradesh, India, Department of Environmental Science, SRM University, Andhra Pradesh, India; Choi, Y., Department of Environmental & IT Engineering, Chungnam National University, Daejeon, South Korea; Rout, P.R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Clean Energy and Resource Recovery: Wastewater Treatment Plants as Biorefineries, Volume 2	2021	
4458	Parameter Estimation of Solar Cell Using Gravitational Search Algorithm	Das K., Basak R., Ganguli S., Paul A.K.	Das, K., Techno India University, Kolkata, India; Basak, R., Techno India University, Kolkata, India; Ganguli, S., Thapar Institute of Engineering & Technology, Patiala, India; Paul, A.K., Techno India University, Kolkata, India	Electrical and Electronic Devices, Circuits, and Materials: Technological Challenges and Solutions	2021	
4459	PLA Composite Matrix as Functional Prototypes for Four Dimensional Applications	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Guru Nanak Dev Engineering College, Ludhiana, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Composites	2021	
4460	Comprehensive analysis of gas tungsten arc welding technique for Ni-base weld overlay	Rathod D.W.	Rathod, D.W., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Thapar Technology Campus, Punjab, Patiala, India	Advanced Welding and Deforming	2021	
4461	Synchronized Operation of Grid Power, Solar Power, and Battery for Smart Energy Management	Kumar P., Thanki D.V.	Kumar, P., Thapar University, India; Thanki, D.V., Lovely Professional University, India	Research Anthology on Clean Energy Management and Solutions	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4462	The role of electronic filters in biomedical applications: A brief survey	Srivastava T., Virk S., Kumar A., Ganguli S.	Srivastava, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Virk, S., Mentor Graphics Pvt. Ltd., Uttar Pradesh, Gautam Budh Nagar, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Electronic Devices, Circuits, and Systems for Biomedical Applications: Challenges and Intelligent Approach	2021	
4463	An overview of the various medical devices for diagnosis, monitoring, and treatment of diseases	Srivastava Y., Virk S., Hazra S., Ganguli S.	Srivastava, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Virk, S., Mentor Graphics Pvt. Ltd., Uttar Pradesh, Gautam Budh Nagar, India; Hazra, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Electronic Devices, Circuits, and Systems for Biomedical Applications: Challenges and Intelligent Approach	2021	
4464	Time series analysis of the COVID-19 pandemic in Australia using genetic programming	Salgotra R., Gandomi A.H.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Gandomi, A.H., Faculty of Engineering & Information Technology, University of Technology Sydney, Ultimo, NSW, Australia	Data Science for COVID-19 Volume 1: Computational Perspectives	2021	
4465	Silicon-based hybrid nanoparticles: An introduction	Sharma S., Basu S.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, India	Silicon-Based Hybrid Nanoparticles: Fundamentals, Properties, and Applications	2021	
4466	Full Range Soft-Switching for On-board EV Charger using Multi-classification Algorithm	Srivastava M., Wadhera T., Verma A.K.	Srivastava, M., TIET Patiala, Department of Electrical and Instrumentation Engineering, Punjab, India; Wadhera, T., TIET Patiala, Department of Electrical and Instrumentation Engineering, Punjab, India; Verma, A.K., MNIT Jaipur, Department of Electrical Engineering, Rajasthan, India	Proceedings of 2021 IEEE 2nd International Conference on Smart Technologies for Power, Energy and Control, STPEC 2021	2021	
4467	A Novel Transformer-Less Topology of Multiple Input DC-DC Converter with Less Component Count for Photovoltaic Applications	Rao C.H.K., Patel R.N., Sahu L.K., Gupta K.K.	Rao, C.H.K., NIT, Dept. of Electrical Engineering, CG, Raipur, India; Patel, R.N., NIT, Dept. of Electrical Engineering, CG, Raipur, India; Sahu, L.K., NIT, Dept. of Electrical Engineering, CG, Raipur, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of 2021 IEEE 2nd International Conference on Smart Technologies for Power, Energy and Control, STPEC 2021	2021	
4468	Development Approaches to Intuitive, SSD Haptics Integrated HRI Social HRI systems for Assisting Space Exploration	Arora A., Panda S.N., Raheja J., Nagpal D.	Arora, A., Thapar Institute of Engineering and Technology, India; Panda, S.N., Chitkara University, Chitkara University Institute of Engineering and Technology, Punjab, India; Raheja, J., CEERI, Pilani, India; Nagpal, D., Chitkara University, Chitkara University Institute of Engineering and Technology, Punjab, India	CITISIA 2021 - IEEE Conference on Innovative Technologies in Intelligent System and Industrial Application, Proceedings	2021	
4469	Message from the TrustCom 2021 Program Chairs	Zhao L., Kumar N., Hsu R.C., Zou D.	Zhao, L., Shenyang Aerospace University, China; Kumar, N., Thapar Institute of Engineering & Technology, India; Hsu, R.C., Chung Hua University, Taiwan; Zou, D., Huazhong University of Science and Technology, China	Proceedings - 2021 IEEE 20th International Conference on Trust, Security and Privacy in Computing and Communications, TrustCom 2021	2021	
4470	Federated Learning for Air Quality Index Prediction using UAV Swarm Networks	Chhikara P., Tekchandani R., Kumar N., Tanwar S., Rodrigues J.J.P.C.	Chhikara, P., Thapar Institute of Engineering Technology (Deemed to Be University), Punjab, Patiala, India; Tekchandani, R., Thapar Institute of Engineering Technology (Deemed to Be University), Punjab, Patiala, India; Kumar, N., Thapar Institute of Engineering Technology (Deemed to Be University), Punjab, Patiala, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Gujarat, Ahmedabad, India; Rodrigues, J.J.P.C., Federal University of Piauí (UFPI), Teresina, Brazil	2021 IEEE Global Communications Conference, GLOBECOM 2021 - Proceedings	2021	
4471	TruClu: Trust Based Clustering Mechanism in Software Defined Vehicular Networks	Garg D., Kaur A., Benslimane A., Bali R.S., Kumar N., Tanwar S., Rodrigues J.J.P.C., Obaidat M.S.	Garg, D., Chandigarh University, Department of Computer Science Engineering, India; Kaur, A., Chandigarh University, Department of Computer Science Engineering, India; Benslimane, A., University of Avignon, France; Bali, R.S., Chandigarh University, Department of Computer Science Engineering, India; Kumar, N., Thapar Institute of Engineering Technology, Computer Science Engineering Department, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, India; Rodrigues, J.J.P.C., Federal University of Piauí (UFPI), Teresina, Brazil; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, United Arab Emirates	2021 IEEE Global Communications Conference, GLOBECOM 2021 - Proceedings	2021	
4472	Aperture Coupled Microstrip Radiator: 3D Radiation Characteristics as a Function of Feed Mechanisms and Structural Variations	Rao H.P.G., Rafidul S., Guha D.	Rao, H.P.G., Thapar Institute of Engineering Technology, Dept. of Electronics Communication Engg., Patiala, India; Rafidul, S., University of Calcutta, Institute of Radio Physics and Electronics, Kolkata, India; Guha, D., University of Calcutta, Institute of Radio Physics and Electronics, Kolkata, India	2021 IEEE Indian Conference on Antennas and Propagation, InCAP 2021	2021	
4473	Fractal geometry based CPW fed antenna for early stage Skin cancer detection	Kaur K., Kaur A.	Kaur, K., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Kaur, A., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	2021 IEEE Indian Conference on Antennas and Propagation, InCAP 2021	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4474	Simulation Study of Lens Applicator for Hyperthermia Treatment	Sharma N., Singh H.S., Khanna R., Kaur A., Agarwal M.	Sharma, N., Thapar Institute of Engineering and Technology, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Singh, H.S., Thapar Institute of Engineering and Technology, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Khanna, R., Thapar Institute of Engineering and Technology, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Agarwal, M., Thapar Institute of Engineering and Technology, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India	2021 IEEE Indian Conference on Antennas and Propagation, InCAP 2021	2021	
4475	Robust Reduced-Order Model Based Postprandial Glucose Regulation in Type-1 Diabetes: An IMC Approach	Prashar K., Saxena S.	Prashar, K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, 147004, India; Saxena, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, 147004, India	2021 7th Indian Control Conference, ICC 2021 - Proceedings	2021	
4476	A Bipolar Multilevel Structure for DC/AC Conversion with Reduced Device Count	Dewangan N.K., Kumar D., Nema R.K., Gupta K.K.	Dewangan, N.K., National Institute of Technology, Department of Electrical Engineering, Raipur, India; Kumar, D., MANIT, Department of Electrical Engineering, Bhopal, India; Nema, R.K., MANIT, Department of Electrical Engineering, Bhopal, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India	2021 IEEE 2nd International Conference on Electrical Power and Energy Systems, ICEPES 2021	2021	
4477	Design and analysis of adaptive neuro-fuzzy inference system based MPPT technology	Pattnaik M., Badoni M., Tatte Y.	Pattnaik, M., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Badoni, M., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Tatte, Y., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, India	Proceedings of the 2021 IEEE 18th India Council International Conference, INDICON 2021	2021	
4478	High Frequency Meminductor Emulator using Current Conveyor Transconductance Amplifier and Memristor	Verma A., Rai S.K., Gupta M.	Verma, A., Department of Electronics and Communication Engineering, Netaji Subhas University of Technology, Delhi, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, M., Department of Electronics and Communication Engineering, Netaji Subhas University of Technology, Delhi, India	Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021	2021	
4479	3-D Printer Robot for Civil Construction: A Bond Graph Approach	Khandelwal V., Bhatia V., Dogra V., Sharma S., Chhabra V., Singh R., Kumar D., Bera T.K.	Khandelwal, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dogra, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Chhabra, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021	2021	
4480	A color image watermarking in the frequency domain using a teaching-learning optimization algorithm	Badoga N.K., Goyal R.K., Mehta R.	Badoga, N.K., Thapar Institute of Engineering Technology, Dept. Computer Science Engineering, Patiala, India; Goyal, R.K., Thapar Institute of Engineering Technology, Dept. Computer Science Engineering, Patiala, India; Mehta, R., Thapar Institute of Engineering Technology, Dept. Computer Science Engineering, Patiala, India	Proceedings of the IEEE International Conference Image Information Processing	2021	2640074X
4481	Hybridizing Cuckoo Search with Naked Mole-rat Algorithm: Adapting for CEC 2017 and CEC 2021 Test Suites	Salgotra R., Singh S., Singh U., Saha S., Gandomi A.H.	Salgotra, R., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication Engineering, Patiala, India; Singh, S., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication Engineering, Patiala, India; Singh, U., Thapar Institute of Engineering and Technology, Dept. of Electronics and Communication Engineering, Patiala, India; Saha, S., Indian Institute of Technology, Dept. of Computer Science, Patna, India; Gandomi, A.H., Faculty of Engg. and IT, University of Technology, Sydney, Australia	2021 IEEE Symposium Series on Computational Intelligence, SSCI 2021 - Proceedings	2021	
4482	A Hybrid Deep Learning Framework Approach for the Detection of Different Varieties of Grain Types	Nijhawan R., Ashish M., Ahuja A., Yadav N.	Nijhawan, R., University of Petroleum and Energy Studies, Computer Science and Engineering (CSE), Dehradun (UPES), India; Ashish, M., Indraprastha Institute of Information Technology, Computer Science and Engineering(CSE), India; Ahuja, A., Thapar Institute of Engineering and Technology, (IIITD), Computer Science and Engineering(CSE), India; Yadav, N., Indraprastha Institute of Information Technology, Computer Science and Engineering(CSE), India	Proceedings of the 2021 10th International Conference on System Modeling and Advancement in Research Trends, SMART 2021	2021	
4483	Deep Learning Based Models for Offline Gurmukhi Handwritten Character and Numeral Recognition	Mahto M.K., Bhatia K., Sharma R.K.	Mahto, M.K., Research Scholar, Gurukula Kangri Vishwavidyalaya, Uttarakhand, Haridwar, India; Bhatia, K., Gurukula Kangri Vishwavidyalaya, Uttarakhand, Haridwar, India; Sharma, R.K., Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Electronic Letters on Computer Vision and Image Analysis	2021	15775097
4484	Demystifying Attention Mechanisms for Deepfake Detection	Das A., Das S., Dantcheva A.	Das, A., Thapar Institute of Engineering and Technology, Patiala, India; Das, S., Stony Brook University, United States; Dantcheva, A., Inria, France, Université Côte d'Azur, France	Proceedings - 2021 16th IEEE International Conference on Automatic Face and Gesture Recognition, FG 2021	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4485	BVPNet: Video-to-BVP Signal Prediction for Remote Heart Rate Estimation	Das A., Lu H., Han H., Dantcheva A., Shan S., Chen X.	Das, A., Thapar University, Thapar Institute of Engineering and Technology, Patiala, India; Lu, H., Institute of Computing Technology, CAS, Key Laboratory of Intelligent Information Processing of Chinese Academy of Sciences (CAS), China; Han, H., Institute of Computing Technology, CAS, Key Laboratory of Intelligent Information Processing of Chinese Academy of Sciences (CAS), China; Dantcheva, A., Inria, Sophia Antipolis, France, Universite Cote d'Azur, France; Shan, S., Institute of Computing Technology, CAS, Key Laboratory of Intelligent Information Processing of Chinese Academy of Sciences (CAS), China; Chen, X., Institute of Computing Technology, CAS, Key Laboratory of Intelligent Information Processing of Chinese Academy of Sciences (CAS), China	Proceedings - 2021 16th IEEE International Conference on Automatic Face and Gesture Recognition, FG 2021	2021	
4486	Edge, Fog and Cloud-based Smart Communications for IoT Network based Services & Applications	Bajaj K., Sharma B., Singh R.	Bajaj, K., Chitkara University, School of Engineering and Technology Chitkara University, Department of Computer Science and Engineering, Himachal Pradesh, India; Sharma, B., Chitkara University, School of Engineering and Technology Chitkara University, Department of Computer Science and Engineering, Himachal Pradesh, India; Singh, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala Punjab, India	Proceedings - 2021 1st IEEE International Conference on Artificial Intelligence and Machine Vision, AIMV 2021	2021	
4487	A statistical analysis on website quality for purchase intention during online shopping	Mittal M., Chauhan S., Gupta S., Singh H.	Mittal, M., CRISTAL, INRIA, Lille, France; Chauhan, S., Dept. of Management, Prestige Institute of Management, Gwalior, India; Gupta, S., Dept. of Comp. Sci. & Engg., Thapar Institute of Engineering & Technology, Patiala, India; Singh, H., Dept. of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India	Proceedings - 2021 IEEE 10th International Conference on Communication Systems and Network Technologies, CSNT 2021	2021	
4488	Operation of Interleaved Converter with MPWM Technique for Transportation Application	Mathuria K., Srivastava M., Kumar M., Verma A.K., Tiwari H.P.	Mathuria, K., MNIT Jaipur, Department of Electrical Engineering, Rajasthan, India; Srivastava, M., TIET Patiala, Department of Electrical and Instrumentation Engineering, Punjab, India; Kumar, M., GEC Bikaner, Department of Electrical Engineering, Rajasthan, India; Verma, A.K., MNIT Jaipur, Department of Electrical Engineering, Rajasthan, India; Tiwari, H.P., MNIT Jaipur, Department of Electrical Engineering, Rajasthan, India	Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)	2021	1972618
4489	Full Range Soft-Switched DC-DC Converter with Clamping Circuit for Transportation Applications	Srivastava M., Tomar P.S., Verma A.K.	Srivastava, M., TIET Patiala, Department of Electrical and Instrumentation Engineering, Punjab, India; Tomar, P.S., MNIT Jaipur, Department of Electrical Engineering, Rajasthan, India; Verma, A.K., MNIT Jaipur, Department of Electrical Engineering, Rajasthan, India	Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)	2021	1972618
4490	Optimizing Resource Allocation for 6G NOMA-Enabled Cooperative Vehicular Networks	Ali Z., Khan W.U., Ihsan A., Waqar O., Sidhu G.A.S., Kumar N.	Ali, Z., Department of Electrical and Computer Engineering, Comsats University Islamabad, Islamabad, 44000, Pakistan; Khan, W.U., Interdisciplinary Center for Security Reliability and Trust (SnT), University of Luxembourg, Luxembourg City, 1855, Luxembourg; Ihsan, A., Department of Information and Communication Engineering, Shanghai Jiao Tong University, Shanghai, 200240, China; Waqar, O., Department of Engineering, Thompson Rivers University, Kamloops, BC V2C 0C8, Canada; Sidhu, G.A.S., Department of Electrical and Computer Engineering, Comsats University Islamabad, Islamabad, 44000, Pakistan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering, Patiala, 147004, India, School of Computer, University of Petroleum and Energy Studies, Dehradun, 248007, India	IEEE Open Journal of Intelligent Transportation Systems	2021	26877813
4491	E-governance using mobile applications: A case study of India during the COVID-19 pandemic	Goyal S., Pillai A., Chauhan S.	Goyal, S., Thapar Institute of Engineering and Technology, India; Pillai, A., Publicis Media, India; Chauhan, S., O. P. Jindal Global University, India	Australasian Journal of Information Systems	2021	14498618
4492	Evaluation of Land Use and Land Cover Transformation and Urban Dynamics Using Multi-Temporal Satellite Data [Procjena korištenja zemljišta i preobrazbe zemljišnog pokrova i urbane dinamike koristeći viševremenske satelitske podatke]	Singh P., Singla S., Bansal A.	Singh, P., Department of Environmental Science, RIMT University, Punjab, Mandi Gobindgarh, 147301, India; Singla, S., Department of Civil Engineering, RIMT University, Punjab, Mandi Gobindgarh, 147301, India; Bansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Geodetski List	2021	0016710X
4493	An Application of Possibilistic Moments of Nonlinear Type of Fuzzy Numbers in Supply Chain Management	Appadoo S.S., Gajpal Y., Kumar A.	Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Winnipeg, MT, Canada; Gajpal, Y., Department of Supply Chain Management, University of Manitoba, Winnipeg, MT, Canada; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147004, India	Mathematical Problems in Engineering	2021	1024123X
4494	Analysis of electric vehicle battery system	Pattnaik M., Badoni M., Yogeshatatte, Singh H.P.	Pattnaik, M., Thapar Institute Of Engineering And Technology, Department Of Electrical And Instrumentation Engineering, Patiala, India; Badoni, M., Thapar Institute Of Engineering And Technology, Department Of Electrical And Instrumentation Engineering, Patiala, India; Yogeshatatte, Thapar Institute Of Engineering And Technology, Department Of Electrical And Instrumentation Engineering, Patiala, India; Singh, H.P., Amity University, Department Of Electrical And Electronics Engineering, Uttar Pradesh, India	2021 4th International Conference on Recent Developments in Control, Automation and Power Engineering, RDCAPE 2021	2021	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4495	Block6Tel: Blockchain-based Spectrum Allocation Scheme in 6G-enabled Communications	Patel F., Bhattacharya P., Tanwar S., Senior, Gupta R., Kumar N., Senior, Guizani M.	Patel, F., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Tanwar, S., Senior, Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Senior, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India; Guizani, M., Department of Computer Science and Engineering, Qatar University, Qatar	2021 International Wireless Communications and Mobile Computing, IWCMC 2021	2021	
4496	A novel fuzzy approach towards in silico B-cell epitope identification inducing antigen-specific immune response for Vaccine Design	Chharia A., Narayan A.	Chharia, A., Thapar Institute of Engineering and Technology, Mechanical Engineering Department, Punjab, Patiala, India; Narayan, A., University of British Columbia, Department of Computer Science, Kelowna, Canada	BIBE 2021 - 21st IEEE International Conference on Bioinformatics and BioEngineering, Proceedings	2021	
4497	Role of Charging/Discharging in the Integration of EVs to Grid as Intermittent Energy Sources	Jain A., Jain S.K., Gupta K.K., Vahedi H., Bhatnagar P.	Jain, A., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Jain, S.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Vahedi, H., Dcbel Inc., Montreal, Canada; Bhatnagar, P., IES College of Technology, Electrical Engineering Department, Bhopal, India	2021 IEEE Electrical Power and Energy Conference, EPEC 2021	2021	
4498	UHF-RFID Tag Design for Improved Traceability Solution for workers' safety at Risky Job sites	Bansal A., Khanna R., Sharma S.	Bansal, A., Thapar Institute Of Engg. And Tech., ECED, Patiala, India; Khanna, R., Thapar Institute Of Engg. And Tech., ECED, Patiala, India; Sharma, S., Thapar Institute Of Engg. And Tech., ECED, Patiala, India	2021 IEEE International Conference on RFID Technology and Applications, RFID-TA 2021	2021	
4499	Women Safety System Design and Hardware Implementation	Tayal S., Govind Rao H.P., Gupta A., Choudhary A.	Tayal, S., Thapar Institute of Engineering Technology, Patiala, India; Govind Rao, H.P., Thapar Institute of Engineering Technology, Patiala, India; Gupta, A., Thapar Institute of Engineering Technology, Patiala, India; Choudhary, A., Thapar Institute of Engineering Technology, Patiala, India	2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2021	2021	
4500	IEC 61850 communication and XMPP based design of Virtual Power Plant	Aftab M.A., Hussain S.M.S., Ustun T.S., Kalam A.	Aftab, M.A., Thapar Institute Of Engineering And Technology, Electrical And Instrumentation Engineering Department, Patiala, India; Hussain, S.M.S., National University Of Singapore (NUS), Department Of Computer Science, Singapore; Ustun, T.S., Fukushima Renewable Energy Institute (FREA), AIST, Koriyama, Japan; Kalam, A., Victoria University, Department Of Electrical Engineering, Melbourne, Australia	Proceedings of 2021 31st Australasian Universities Power Engineering Conference, AUPEC 2021	2021	
4501	Erosion wear analysis of thermally sprayed WC + TiO ₂ micron layers on SS-404	Haque U., Singh G., Singh Gill H., Kumar S., Kumari K.	Haque, U., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Singh, G., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Singh Gill, H., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Kumar, S., Department of Mechanical Engineering, NIT, Jamshedpur, India; Kumari, K., Department of Electronics and Communication Engineering, Thapar University Patiala, Punjab, India	Materials Today: Proceedings	2021	22147853
4502	A Study on Artifacts Removal from Physiological Signals	Prakash S., Manocha A.K., Singh M.	Prakash, S., MRSPTU, Electrical Department, Punjab, Bathinda, India; Manocha, A.K., Punjab Institute Of Technology, Moga-MRSPTU, Department Of Electrical Engineering And Director, Punjab, Bathinda, India; Singh, M., Thapar Institute Of Engineering Technology, Electrical And Instrumentation Engineering Department, Punjab, Patiala, India	Proceedings of IEEE International Conference on Signal Processing, Computing and Control	2021	26438615
4503	An NLP Based Sentimental Analysis and Prediction: A Dynamic Approach	Dhasarathan C., Shrestha H.	Dhasarathan, C., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Shrestha, H., Department of Computer Science and Engineering, Madanapalle Institute of Technology and Science, Madanapalle, India	Communications in Computer and Information Science	2021	18650929
4504	A comprehensive survey on aspect-based sentiment analysis	Yadav K., Kumar N., Maddikunta P.K.R., Gadekallu T.R.	Yadav, K., School of Computer Science and Engineering, Vellore Institute of Technology, Tamil Nadu, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Pb., Patiala, India; Maddikunta, P.K.R., School of Information Technology and Engineering, Vellore Institute of Technology, Tamil Nadu, India; Gadekallu, T.R., School of Information Technology and Engineering, Vellore Institute of Technology, Tamil Nadu, India	International Journal of Engineering Systems Modelling and Simulation	2021	17559758
4505	Entropy-Driven Global Best Selection in Particle Swarm Optimization for Many-Objective Software Package Restructuring	Prajapati A., Parashar A., Sunita, Mishra A.	Prajapati, A., Computer Engineering and It Department, Jit, Noida, India; Parashar, A., Department of Computer Science and Engineering, Tiet, Patiala, Punjab, India; Sunita, Computer Science and Engineering Department, Ccet, Chandigarh, India; Mishra, A., Informatics and Digitalization, Molde University College, Specialized University in Logistics, Molde, Norway	Complexity	2021	10762787
4506	Neuro-Fuzzy-Based IoT Assisted Power Monitoring System for Smart Grid	Ghosh S.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala147004, India	IEEE Access	2021	21693536

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4507	A novel approach for solving all-pairs shortest path problem in an interval-valued fuzzy network: Suggested modifications	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering Technology, (Deemed to Be University), Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering Technology, (Deemed to Be University), Patiala, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Winnipeg, Manitoba, Canada	Journal of Intelligent and Fuzzy Systems	2021	10641246
4508	Survey on energy trading in the smart grid: Taxonomy, research challenges and solutions	Aggarwal S., Kumar N., Tanwar S., Alazab M.	Aggarwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, 382481, India; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Casuarina, NT 0810, Australia	IEEE Access	2021	21693536
4509	Existence of fixed points for pairs of mappings and application to Urysohn integral equations	Kumar D., Chandok S.	Kumar, D., Department of Mathematics, Lovely Professional University, Punjab, Phagwara, 144411, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Nonlinear Studies	2021	13598678
4510	Guest Editorial: Introduction to the Special Section on Intelligence-Empowered Collaboration among Space, Air, Ground, and Sea Mobile Networks towards B5G	Zhao L., Kumar N., Wu C., Hu J., Al-Dubai A.	Zhao, L., Shenyang Aerospace University, Shenyang, 110136, China; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Wu, C., University of Electro-Communications, Tokyo, 182-8585, Japan; Hu, J., University of Exeter, Exeter, EX4 4RN, United Kingdom; Al-Dubai, A., Edinburgh Napier University, Edinburgh, EH10 5DT, United Kingdom	IEEE Transactions on Network Science and Engineering	2021	23274697
4511	Exponentially Fitted Element-Free Galerkin Approach for Nonlinear Singularly Perturbed Problems	Kaur J., Sangwan V.	Kaur, J., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sangwan, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Mathematics	2021	23144629
4512	Generalised rule induction-based model for software fault prediction	Mishra A., Singla M.	Mishra, A., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India; Singla, M., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India	International Journal of Reliability and Safety	2021	1479389X
4513	Enantioselective synthesis of C1-C4 and C5-C14 fragments of cytospolide D	Kaur A., Gehlawat A., Prakash R., Pandey S.K.	Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Gehlawat, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Prakash, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Pandey, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 001, India, Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, 221 005, India	Arkivoc	2021	15517004
4514	Use of quantum mechanical fragmentation approach in decay dynamics of 221FR nucleus	Sharma M.K., Kaur A.	Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Proceedings of the Jangjeon Mathematical Society	2021	15987264
4515	Lightweight Searchable Public-Key Encryption with Forward Privacy over IIoT Outsourced Data	Chen B., Wu L., Kumar N., Choo K.-K.R., He D.	Chen, B., School of Computer Science, Wuhan University, Hubei, Wuhan, 430072, China; Wu, L., School of Computer Science, Wuhan University, Hubei, Wuhan, 430072, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Punjab, Patiala, 147004, India; Choo, K.-K.R., Department of Information Systems and Cyber Security, Department of Electrical and Computer Engineering, The University of Texas at San Antonio, San Antonio, TX 78249, United States; He, D., School of Cyber Science and Engineering, Wuhan University, Hubei, Wuhan, 430072, China	IEEE Transactions on Emerging Topics in Computing	2021	21686750
4516	Stability of complex functional equations in 2-Banach spaces	Rana A., Sharma R.K., Chandok S.	Rana, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Mathematical Physics, Analysis, Geometry	2021	18129471
4517	Amalgamation of blockchain and sixth-generation-envisioned responsive edge orchestration in future cellular vehicle-to-anything ecosystems: Opportunities and challenges	Bhattacharya P., Bodkhe U., Zuhair M., Rashid M., Liu X., Verma A., Kishan Dewangan R.	Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Bodkhe, U., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Zuhair, M., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Rashid, M., Department of Computer Engineering, Faculty of Science and Technology, Vishwakarma University, Pune, India; Liu, X., College of Information Engineering (College of Artificial Intelligence), Yangzhou University, Yangzhou, China; Verma, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kishan Dewangan, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, Punjab, India	Transactions on Emerging Telecommunications Technologies	2021	21615748

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4518	Res6Edge: An Edge-AI Enabled Resource Sharing Scheme for C-V2X Communications towards 6G	Sanghvi J., Bhattacharya P., Tanwar S., Gupta R., Kumar N., Guizani M.	Sanghvi, J., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, India; Kumar, N., Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India; Guizani, M., Department of Computer Science and Engineering, Qatar University, Qatar	2021 International Wireless Communications and Mobile Computing, IWCMC 2021	2021	
4519	Dietary inflammatory index in relation to psoriasis risk, cardiovascular risk factors, and clinical outcomes: A case-control study in psoriasis patients	Kashani A., Moludi J., Fateh H.L., Tandorost A., Jafari-Vayghan H., Dey P.	Kashani, A., Department of Clinical Nutrition, School of Nutritional Sciences and Dietetics, Tehran University of Medical Sciences, Tehran, Iran; Moludi, J., School of Nutrition Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran; Fateh, H.L., Nursing Department, Kalar Technical College, Sulaimani Polytechnic University, Sulaymaniyah, Iraq; Tandorost, A., School of Nutrition Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran; Jafari-Vayghan, H., Department of Nutrition, School of Health, Arak University of Medical Sciences, Arak, Iran; Dey, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Applied Physiology, Nutrition and Metabolism	2021	17155312
4520	Preface	Kumar N., Rho S., Alazab M.	Kumar, N., Thapar University, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India; Rho, S., Department of Industrial Security, Chung-Ang University, Seoul, South Korea; Alazab, M., College of Engineering, IT and Environment, Charles Darwin University, Ellengowan Dr, Casuarina, NT 0810, Australia	International Journal of Ad Hoc and Ubiquitous Computing	2021	17438225
4521	BAT algorithm based feature selection: Application in credit scoring	Tripathi D., Ramachandra Reddy B., Padmanabha Reddy Y.C.A., Shukla A.K., Kumar R.K., Sharma N.K.	Tripathi, D., Thapar Institute of Engineering Technology Patiala, Punjab, Patiala, 147001, India; Ramachandra Reddy, B., SRM University AP-Andhra Pradesh, India; Padmanabha Reddy, Y.C.A., Madanapalle Institute of Technology Science Madanapalle, Andhra Pradesh, India; Shukla, A.K., VIT-AP University, Andhra Pradesh, Amaravati, India; Kumar, R.K., SRM University AP-Andhra Pradesh, India; Sharma, N.K., SRM University AP-Andhra Pradesh, India	Journal of Intelligent and Fuzzy Systems	2021	10641246
4522	Physical Insight into Self-heating Induced Performance Degradation in RingFET	Singh S., Srinivas P.S.T.N., Kumar A., Tiwari P.K.	Singh, S., Department of Electrical Engineering, Indian Institute of Technology Patna, Bihta, Patna, Bihar 801106, India; Srinivas, P.S.T.N., Department of Electrical Engineering, Indian Institute of Technology Patna, Bihta, Patna, Bihar 801106, India; Kumar, A., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Tiwari, P.K., Department of Electrical Engineering, Indian Institute of Technology Patna, Bihta, Patna, Bihar 801106, India	Silicon	2021	1876990X
4523	Existence and Stability of a Caputo Variable-Order Boundary Value Problem	Benkerrouche A., Souid M.S., Chandok S., Hakem A.	Benkerrouche, A., Laboratory Acedp, Djillali Liabes University, Sidi Bel Abbès, Algeria; Souid, M.S., Department of Economic Sciences, University of Tiaret, Tiaret, Algeria; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hakem, A., Laboratory Acedp, Djillali Liabes University, Sidi Bel Abbès, Algeria	Journal of Mathematics	2021	23144629
4524	Comparison of diagonal double weight and multi-diagonal codes for security enhancement in PONs	Mangal K., Singh H.	Mangal, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Proceedings of SPIE - The International Society for Optical Engineering	2021	0277786X
4525	ARGUABLY @ AI Debater-NLPCC 2021 Task 3: Argument Pair Extraction from Peer Review and Rebuttals	Kohli G.S., Kaur P., Singh M., Ghosal T., Rana P.S.	Kohli, G.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic; Ghosal, T., Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic; Rana, P.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2021	3029743
4526	Evaluation of Soil Moisture for Estimation of Irrigation Pattern by Using Machine Learning Methods	Khanna A., Kaur S.	Khanna, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Communications in Computer and Information Science	2021	18650929
4527	Correlation Measures for Cubic m-Polar Fuzzy Sets with Applications	Garg H., Riaz M., Khokhar M.A., Saba M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Riaz, M., Department of Mathematics, University of the Punjab, Lahore, 54590, Pakistan; Khokhar, M.A., Department of Mathematics, University of the Punjab, Lahore, 54590, Pakistan; Saba, M., Department of Mathematics, University of the Punjab, Lahore, 54590, Pakistan	Mathematical Problems in Engineering	2021	1024123X
4528	Interaction of waves with a sliding viscoelastic layer	Kumar P., DasGupta A., Bhattacharyya R.	Kumar, P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; DasGupta, A., Department of Mechanical Engineering, IIT Kharagpur, Kharagpur, India, Center for Theoretical Studies, IIT Kharagpur, Kharagpur, India; Bhattacharyya, R., Department of Mechanical Engineering, IIT Kharagpur, Kharagpur, India	Waves in Random and Complex Media	2021	17455030

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4529	Existence of Best Proximity Point with an Application to Nonlinear Integral Equations	Sharma S., Chandok S.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Mathematics	2021	23144629
4530	Information theoretic weighted fuzzy clustering ensemble	Wang Y., Yuan L., Garg H., Bagherinia A., Parvin H., Pho K.-H., Mansor Z.	Wang, Y., Department of Electronic Information Engineering, School of Information Engineering, Wuhan University of Technology, Wuhan, China; Yuan, L., School of Information Engineering, Wuhan University of Technology, Wuhan, China, School of Information Engineering, Wuhan Huaxia University of Technology, Wuhan, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Bagherinia, A., Department of Computer Science, Dehdasht Branch, Islamic Azad University, Dehdasht, Iran; Parvin, H., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang, 550000, Viet Nam, Department of Computer Science, Nourabad Mamasani Branch, Islamic Azad University, Mamasani, Iran; Pho, K.-H., Fractional Calculus, Optimization and Algebra Research Group, Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Mansor, Z., Fakulti Teknologi dan Sains Maklumat, Universiti Kebangsaan Malaysia, UKM Bangi, Selangor, 43600, Malaysia	Computers, Materials and Continua	2021	15462218
4531	An optimal class of fourth-order multiple-root finders of Chebyshev-Halley type and their basins of attraction	Bala R., Kansal M., Kanwar V.	Bala, R., Department of Mathematics, Government College, Panchkula, Barwala, 134118, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kanwar, V., Department of Mathematics, University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India	International Journal of Computing Science and Mathematics	2021	17525055
4532	A deep transfer learning based model for automatic detection of COVID-19 from chest X-rays	Chhikara P., Gupta P., Singh P., Bhatia T.	Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Gupta, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Singh, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Bhatia, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India	Turkish Journal of Electrical Engineering and Computer Sciences	2021	13000632
4533	Bioinformatics tools and databases for genomics-assisted breeding and population genetics of plants: A review	Aglawe S.B., Verma A.K., Upadhyay A.K.	Aglawe, S.B., Indian Institute of Science Education and Research, Tirupati, Andhra Pradesh, 517507, India; Verma, A.K., Indian Institute of Science Education and Research, Bhopal, Madhya Pradesh, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Current Bioinformatics	2021	15748936
4534	Foreseeing Survival Through 'Fuzzy Intelligence': A Cognitively-Inspired Incremental Learning Based de novo Model for Breast Cancer Prognosis by Multi-Omics Data Fusion	Chharia A., Kumar N.	Chharia, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, PB 147004, India, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, PB 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, PB 147004, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2021	3029743
4535	Enhancing flowability of fine cohesive active pharmaceutical ingredients	Sharma R., Setia G.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Setia, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Drug Development and Industrial Pharmacy	2021	3639045
4536	Spoken Language Identification Using Deep Learning	Singh G., Sharma S., Kumar V., Kaur M., Baz M., Masud M.	Singh, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, India; Kaur, M., School of Engineering and Applied Sciences, Bennett University, Greater Noida, India; Baz, M., Department of Computer Engineering, College of Computer and Information Technology, Taif University, P.O. Box. 11099, Taif, 21994, Saudi Arabia; Masud, M., Department of Computer Science, College of Computer and Information Technology, Taif University, P.O. Box. 11099, Taif, 21994, Saudi Arabia	Computational Intelligence and Neuroscience	2021	16875265
4537	Transfer Learning Model to Indicate Heart Health Status Using Phonocardiogram	Arora V., Verma K., Leekha R.S., Lee K., Choi C., Gupta T., Bhatia K.	Arora, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Leekha, R.S., Associate Application, IT, Gurugram, Haryana, Concentrix, India; Lee, K., School of Computer Software, Daegu Catholic University, Gyeongsan, South Korea; Choi, C., Department of Computer Engineering, Gachon University, Seongnam, 13120, South Korea; Gupta, T., Soonchunhyang University, Information Security Engineering, South Korea; Bhatia, K., Department of Computer Engineering, University College of Engineering, Punjabi University, Punjab, Patiala, India	Computers, Materials and Continua	2021	15462218
4538	Screening of COVID-19 Patients Using Deep Learning and IoT Framework	Kaushik H., Singh D., Tiwari S., Kaur M., Jeong C.-W., Nam Y., Khan M.A.	Kaushik, H., Manipal University, Jaipur, India; Singh, D., Bennett University, Greater Noida, India; Tiwari, S., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, M., Bennett University, Greater Noida, India; Jeong, C.-W., Medical Convergence Research Center, Wonkwang University, Iksan, South Korea; Nam, Y., Department of Computer Science and Engineering, Soonchunhyang University, Asan, South Korea; Khan, M.A., Department of Computer Science, Hitec University, Taxila, Pakistan	Computers, Materials and Continua	2021	15462218

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4539	Microwave-assisted rapid upgrading of Indian high ash coal and its blending with untreated coal to improve the slurryability and rheological characteristics of blended slurry	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Coal Preparation and Utilization	2021	19392699
4540	A q-Rung Orthopair Cloud-Based Multi-Attribute Decision-Making Algorithm: Considering the Information Error and Multilayer Heterogeneous Relationship of Attributes	He P., Li C., Garg H., Liu J., Yang Z., Guo X.	He, P., College of Tourism and Historical, Zhaoqing University, Zhaoqing, China; Li, C., College of Tourism and Historical, Zhaoqing University, Zhaoqing, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Liu, J., College of Art and Design, Beijing University of Technology, Beijing, China; Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, China; Guo, X., College of Tourism and Historical, Zhaoqing University, Zhaoqing, China	IEEE Access	2021	21693536
4541	Magnetic study on divalent ion substituted barium hexaferrites	Vinnik D., Mahadevan S., Sharma P.	Vinnik, D., South Ural State University, Chelyabinsk, Russian Federation; Mahadevan, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, India	Defect and Diffusion Forum	2021	10120386
4542	Can CE Reduce Food Wastage? A Proposed Framework	Sharma R., Shishodia A., Tewary T., Sharma R.	Sharma, R., Azim Premji University, Survey No 66, Burugunte Village, Bikkana Halli Main Rd., Sarjapura, Bengaluru, 562125, India; Shishodia, A., LM Thapar School of Management Dera Bassi Campus, Off, Derabassi - Barwala Rd, Chandigarh, Punjab 140507, India; Tewary, T., Jaipuria Institute of Management, Noida, A-32, Opposite IBM, Sector 62, Noida, Uttar Pradesh 201309, India; Sharma, R., Jaipuria Institute of Management, Noida, A-32, Opposite IBM, Sector 62, Noida, Uttar Pradesh 201309, India	Environmental Footprints and Eco-Design of Products and Processes	2021	23457651
4543	Aperture-Coupled Rectangular Dielectric Resonator Antenna for Multiband Applications	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khanna, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2021	18761100
4544	A Novel Approach for Morphological Analysis and Inflections Based on POS Tagging	Goel K.	Goel, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2021	18761100
4545	Novel q-rung orthopair fuzzy interaction aggregation operators and their application to low-carbon green supply chain management	Riaz M., Garg H., Farid H.M.A., Aslam M.	Riaz, M., Department of Mathematics, University of the Punjab, Lahore, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Farid, H.M.A., Department of Mathematics, University of the Punjab, Lahore, Pakistan; Aslam, M., College of Sciences, King Khalid University, Abha, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2021	10641246
4546	Synthesis and evaluation of 2,3,4,9-tetrahydro-1H-carbazole derivatives as selective acetylcholinesterase inhibitors: Potential anti-Alzheimer's agents	Kukreja H., Chugh R., Singh J., Shah R., Singh D., Singh N., Chopra D.S., Singh M.	Kukreja, H., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Chugh, R., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Singh, J., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Shah, R., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Singh, D., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Singh, N., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Chopra, D.S., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India; Singh, M., Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry	2021	3764699
4547	ICDAR 2021 Competition on Script Identification in the Wild	Das A., Ferrer M.A., Morales A., Diaz M., Pal U., Impedovo D., Li H., Yang W., Ota K., Yao T., Hung L.Q., Cuong N.Q., Kim S., Gattal A.	Das, A., Indian Statistical Institute, Kolkata, India, Thapar University, Patiala, India; Ferrer, M.A., Univ. de Las Palmas de Gran Canaria, Las Palmas, Spain; Morales, A., Universidad Autonoma de Madrid, Madrid, Spain; Diaz, M., Universidad del Atlántico Medio, Las Palmas, Spain; Pal, U., Indian Statistical Institute, Kolkata, India; Impedovo, D., Università degli Studi di Bari Aldo Moro, Bari, Italy; Li, H., South China University of Technology, Guangzhou, China; Yang, W., South China University of Technology, Guangzhou, China; Ota, K., Canon IT Solutions Inc., Tokyo, Japan; Yao, T., Canon IT Solutions Inc., Tokyo, Japan; Hung, L.Q., University of Information Technology, Ho Chi Minh City, Viet Nam; Cuong, N.Q., University of Information Technology, Ho Chi Minh City, Viet Nam; Kim, S., NAVER Papago, Seoul, South Korea; Gattal, A., Larbi Tebessi University, Tebessa, Algeria	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2021	3029743
4548	Perception and Participation of Faculty Members in Collection Development: A Comparative Study of Five Universities in North India	Singh H., Mahajan P.P.	Singh, H., Assistant Librarian, Central Library, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Mahajan, P.P., Panjab University, Chandigarh, India	Library Philosophy and Practice	2021	15220222

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4549	ALGORITHMS FOR SCREENING TRAVELERS DURING COVID-19 OUTBREAK USING PROBABILISTIC DUAL HESITANT VALUES BASED ON BIPARTITE GRAPH THEORY	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, India	Applied and Computational Mathematics	2021	16833511
4550	Quantum Internet - Applications, Functionalities, Enabling Technologies, Challenges, and Research Directions	Singh A., Dev K., Sijjak H., Joshi H.D., Magarini M.	Singh, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Dev, K., Department of Institute of Intelligent Systems, University of Johannesburg, Johannesburg, South Africa; Sijjak, H., Department of Electronic and Electrical Engineering, Trinity College Dublin, Dublin, Ireland; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Magarini, M., Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Milan, Italy	IEEE Communications Surveys and Tutorials	2021	1553877X
4551	New Logarithmic Operational Laws-Based Complex q-Rung Orthopair Fuzzy Aggregation Operators and Their Application in Decision-Making Process	Garg H., Ali Z., Mahmood T., Aljahdali S., Shah H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Aljahdali, S., Department of Computer Science, College of Computers and Information Technology, Taif University, P.O. Box 11099, Taif, 21944, Saudi Arabia; Shah, H., College of Computer Science, King Khalid University, Abha, 62529, Saudi Arabia	Complexity	2021	10762787
4552	Global heuristic methods for reduced-order modelling of fractional-order systems in the delta domain: a unified approach	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teacher's Training and Research, Kolkata, West Bengal 700106, India	Ricerche di Matematica	2021	355038
4553	Approaches in assistive technology: A survey on existing assistive wearable technology for the visually impaired	Gupta L., Varma N., Agrawal S., Verma V., Kalra N., Sharma S.	Gupta, L., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Varma, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Agrawal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Verma, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes on Data Engineering and Communications Technologies	2021	23674512
4554	Prediction of BRIC stock price using ARIMA, SutteARIMA, and holt-winters	Ahmar A.S., Singh P.K., van Thanh N., Tinh N.V., Hieu V.M.	Ahmar, A.S., Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Makassar, Makassar, 90223, Indonesia; Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; van Thanh, N., Faculty of Commerce, Van Lang University, Ho Chi Minh City, 70000, Viet Nam; Tinh, N.V., Faculty of Commerce, Van Lang University, Ho Chi Minh City, 70000, Viet Nam; Hieu, V.M., Faculty of Commerce, Van Lang University, Ho Chi Minh City, 70000, Viet Nam	Computers, Materials and Continua	2021	15462218
4555	Secure rotation invariant face detection system for authentication	Verma A., Baljon M., Mishra S., Kaur I., Saini R., Saxena S., Sharma S.K.	Verma, A., Department of Computer Science and Engineering, Chandigarh Group of Colleges, Mohali, 140317, India; Baljon, M., Department of Computer Engineering, College of Computer and Information Science, Majmaah University11952, Saudi Arabia; Mishra, S., Department of Computer Engineering, College of Computer and Information Science, Majmaah University11952, Saudi Arabia; Kaur, I., Department of Computer Science and Engineering, Chandigarh Group of Colleges, Mohali, 140317, India; Saini, R., Department of Computer Science and Engineering, Chandigarh Group of Colleges, Mohali, 140317, India; Saxena, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S.K., Department of Computer Centre, Campus Network Facility Science Complex, PO Central University, Gachibowli, Telangana, Hyderabad, 500046, India	Computers, Materials and Continua	2021	15462218
4556	Sustainable soil stabilization using combination of geotextile, fly-ash and saw dust for pavement subgrade	Sahak B., Singh M., Adhikari A., Hussain S.	Sahak, B., School of Civil Engineering, Lovely Professional University, Phagwara, Punjab, 144411, India; Singh, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, 147004, India; Adhikari, A., Department of Civil Engineering, Birla Institute of Technology and Sciences-Pilani, Rajasthan, 333031, India; Hussain, S., Department of Civil Engineering, Manipal University Jaipur, Rajasthan, 303007, India	Archives of Materials Science and Engineering	2021	18972764
4557	INVESTIGATING the PERFORMANCE of NANOREFRIGERANT (R134a + CuO)-BASED VAPOR COMPRESSION CYCLE: A NEW SCOPE	Kaushik R., Kundan L., Sharma R.K.	Kaushik, R., Chitkara College of Applied Engineering, Chitkara University, Punjab, India, College of Applied Engineering, Chitkara University, Punjab, India; Kundan, L., Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Sharma, R.K., Chitkara College of Applied Engineering, Chitkara University, Punjab, India	Heat Transfer Research	2021	10642285

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4558	Navigation model for four-wheel mobile robot: A bond graph and robot operating system approach	Singh R., Bera T.K.	Singh, R., Thapar Institute of Engineering and Technology, Patiala, India; Bera, T.K., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Robotics and Automation	2021	8268185
4559	Energy and SLA-driven MapReduce Job Scheduling Framework for Cloud-based Cyber-Physical Systems	Kaur K., Garg S., Kaddoum G., Kumar N.	Kaur, K., Cole de Technologie Superieure, Montreal, QC H3C 1K3, Canada; Garg, S., Cole de Technologie Superieure, Montreal, QC H3C 1K3, Canada; Kaddoum, G., Cole de Technologie Superieure, Montreal, QC H3C 1K3, Canada; Kumar, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	ACM Transactions on Internet Technology	2021	15335399
4560	Testing the Performance of Some New Hybrid Metaheuristic Algorithms for High-Dimensional Optimization Problems	Ganguli S.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Trends in Mathematics	2021	22970215
4561	Marker assisted mobilization of heat tolerance qtls from triticum durum-aegilops speltoides introgression lines to hexaploid wheat	Dhillon G.S., Das N., Kaur S., Srivastava P., Bains N.S., Chhuneja P.	Dhillon, G.S., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, 141 004, India; Das, N., Dept. of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kaur, S., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, 141 004, India; Srivastava, P., Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana, 141 004, India; Bains, N.S., Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana, 141 004, India; Chhuneja, P., School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana, 141 004, India	Indian Journal of Genetics and Plant Breeding	2021	195200
4562	Emergence of decision support systems in healthcare	Reyana A., Kautish S., Gupta Y.	Reyana, A., Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Tamilnadu, Coimbatore, India; Kautish, S., LBEF Campus, Asia Pacific University, Kathmandu, Nepal; Gupta, Y., Thapar Institute of Engineering and Technology, Patiala, India	Demystifying Big Data, Machine Learning, and Deep Learning for Healthcare Analytics	2021	
4563	On the performance improvement of a flutter based energy harvester by introducing additional wake field	Agarwal A., Purohit A.	Agarwal, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Purohit, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2021	15567036
4564	Performance Improvement of Inorganic Lead-Free Perovskite Solar Cell	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Communications in Computer and Information Science	2021	18650929
4565	An Artificial Neural Network Based Approach of Solar Radiation Estimation Using Location and Meteorological Details	Choudhary A., Pandey D., Bhardwaj S.	Choudhary, A., Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh, 226010, India; Pandey, D., Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh, 226010, India; Bhardwaj, S., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Thapar University, Patiala, Punjab, 147001, India	Lecture Notes in Electrical Engineering	2021	18761100
4566	Cattaneo-christov heat flux model of eyring powell fluid along with convective boundary conditions	Bilal Ashraf M., Sharma S., Aneja M.	Bilal Ashraf, M., Department of Mathematics, COMSATS University Islamabad, Islamabad, 44000, Pakistan; Sharma, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Aneja, M., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Iranian Journal of Chemistry and Chemical Engineering	2021	10219986
4567	Pharmacological benefits of Acacia against metabolic diseases: intestinal-level bioactivities and favorable modulation of gut microbiota	Saha M.R., Dey P.	Saha, M.R., Department of Life Science, Vidyasagar Primary Teachers Training Institute (B.Ed.), Malda, India; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Archives of Physiology and Biochemistry	2021	13813455
4568	Specific Heat of Nanofluids—An Experimental Investigation	Anand T., Mallick S.S.	Anand, T., Satyug Darshan Institute of Engineering and Technology, Faridabad, 121002, India; Mallick, S.S., Mechanical Engineering Department, Thapar University, Patiala, 147001, India	Lecture Notes in Mechanical Engineering	2021	21954356
4569	Interaction aggregation operators to solve multi criteria decision making problem under pythagorean fuzzy soft environment	Zulqarnain R.M., Xin X.L., Garg H., Ali R.	Zulqarnain, R.M., Department of Mathematics, University of Management and Technology, Lahore, Pakistan; Xin, X.L., School of Mathematics, Northwest University, Xi'an, China, School of Science, Xi'an Polytechnic University, Xi'an, China; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology (Deemed University), Punjab, Patiala, India; Ali, R., Department of Mathematics, College of Science and Arts, King Khalid University, Abha, Muhayil, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2021	10641246

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4570	Security in next generation mobile payment systems: A comprehensive survey	Ahmed W., Rasool A., Javed A.R., Kumar N., Gadekallu T.R., Jalil Z., Kryvinska N.	Ahmed, W., Department of Cyber Security, Air University, Islamabad, 44200, Pakistan; Rasool, A., Department of Cyber Security, Air University, Islamabad, 44200, Pakistan; Javed, A.R., Department of Cyber Security, Air University, Islamabad, 44200, Pakistan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Gadekallu, T.R., School of Information Technology and Engineering, Vellore Institute of Technology, Tamil Nadu, Vellore, 632014, India; Jalil, Z., Department of Cyber Security, Air University, Islamabad, 44200, Pakistan; Kryvinska, N., Faculty of Management, Comenius University in Bratislava, Bratislava, 82005, Slovakia	IEEE Access	2021	21693536
4571	Multi-criteria decision-making algorithm based on aggregation operators under the complex interval-valued q-rung orthopair uncertain linguistic information	Garg H., Ali Z., Yang Z., Mahmood T., Aljahdali S.	Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Punjab, Patiala, India; Ali, Z., Department of Mathematics Statistics, International Islamic University, Islamabad, Pakistan; Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, China; Mahmood, T., Department of Mathematics Statistics, International Islamic University, Islamabad, Pakistan; Aljahdali, S., Department of Computer Science, College of Computers and Information Technology, Taif University, Taif, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2021	10641246
4572	A Survey of Soft Computing Approaches in Biomedical Imaging	Devi M., Singh S., Tiwari S., Chandra Patel S., Ayana M.T.	Devi, M., Deenbandhu Chhotu Ram University of Science and Technology, Murthal Sonipat, Haryana, India; Singh, S., Deenbandhu Chhotu Ram University of Science and Technology, Murthal Sonipat, Haryana, India; Tiwari, S., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Chandra Patel, S., School of Computer Science and Engineering, VIT Bhopal University, Bhopal, India; Ayana, M.T., Arba Minch University, Arba Minch, Ethiopia	Journal of Healthcare Engineering	2021	20402295
4573	SURFACE MODIFICATION OF SS-316 to ENHANCE CAVITATION RESISTANCE through COMPOSITE MICROWAVE CLADS	Bansal S., Gupta D., Jain V.	Bansal, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Surface Review and Letters	2021	0218625X
4574	Genetic polymorphism of Arg213His variant in the SULT1A1 gene is associated with reduced susceptibility to lung cancer in North Indian population	Walia H.K., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Xenobiotica	2021	498254
4575	Area-delay efficient Radix-4 8x8 Booth multiplier for DSP applications	Singhal S.K., Patel S.K., Mahajan A., Saxena G.	Singhal, S.K., Jaypee University of Engineering & Technology, Madhya Pradesh, Guna, India; Patel, S.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mahajan, A., Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India; Saxena, G., Jaypee University of Engineering & Technology, Madhya Pradesh, Guna, India	Turkish Journal of Electrical Engineering and Computer Sciences	2021	13000632
4576	Lab-scale production of biodiesel from soybean acid oil using immobilized whole cells as catalyst	Sharma A., Melo J.S., Prakash R., Tejo Prakash N.	Sharma, A., University Institute of Biotechnology, Chandigarh University, Mohali, India; Melo, J.S., NA&BTD, Bhabha Atomic Research Centre, Mumbai, India; Prakash, R., School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Tejo Prakash, N., School of Energy & Environment, Thapar Institute of Engineering and Technology, Patiala, India	Biocatalysis and Biotransformation	2021	10242422
4577	A SWOT analysis of groundnut farm households: Evidence from Mirzapur district in India	Tabash M.I., Singh P.K., Bhatt R.K., Pandey A.K.	Tabash, M.I., Al Ain University, College of Business, Al Ain, United Arab Emirates; Singh, P.K., Thapar Institute of Engineering and Technology, School of Humanities and Social Sciences, Patiala, (Punjab), 147004, India; Bhatt, R.K., Banaras Hindu University, Department of Economics, Varanasi, (Uttar Pradesh), 221005, India; Pandey, A.K., Banaras Hindu University, Centre for Integrated Rural Development, Varanasi, (Uttar Pradesh), 221005, India	Bulgarian Journal of Agricultural Science	2021	13100351
4578	"Bookmysurprise": navigating through the predicament of a start-up	Bansal S., Kapur I., Singh A.K., Verma P.	Bansal, S., Amity Business School, Amity University, NOIDA, India; Kapur, I., Amity College of Commerce and Finance, Amity University, NOIDA, India; Singh, A.K., Amity Business School, Amity University, Noida, India; Verma, P., LM Thapar School of Management, Thapar University, Patiala, India	Emerald Emerging Markets Case Studies	2021	20450621
4579	A novel hybrid decision-based filter and universal edge-based logical smoothing add-on to remove impulsive noise	Ghumaan R.S., Sohi P.J.S., Sharma N., Garg B.	Ghumaan, R.S., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sohi, P.J.S., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, N., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Garg, B., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Turkish Journal of Electrical Engineering and Computer Sciences	2021	13000632
4580	Comments on 'Efficient Public Verification of Data Integrity for Cloud Storage Systems from Indistinguishability Obfuscation'	Peng S., Zhao L., Kumar N.	Peng, S., School of Computer Science, Shenyang Aerospace University, Shenyang, 110136, China; Zhao, L., School of Computer Science, Shenyang Aerospace University, Shenyang, 110136, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, 147004, India	IEEE Transactions on Information Forensics and Security	2021	15566013

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4581	An Automatic Multimedia Likability Prediction System Based on Facial Expression of Observer	Bawa V.S., Sharma S., Usman M., Gupta A., Kumar V.	Bawa, V.S., Visual Artificial Intelligence Laboratory, Oxford Brookes University, Oxford, United Kingdom; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Usman, M., Department of Electrical Engineering, King Khalid University, Abha, 61411, Saudi Arabia; Gupta, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Access	2021	21693536
4582	Monostatic Microwave Imaging for Breast Tumor Detection Using Two 'C' Shaped Dielectric Resonators (DR)	Kaur G., Kaur A.	Kaur, G., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Mechanical Engineering	2021	21954356
4583	Optimal reordering trace files for improving software testing suitcase	Cai Y., Qasem S.N., Garg H., Parvin H., Pho K.-H., Mansor Z.	Cai, Y., School of Measurement and Communication, Harbin University of Science & Technology, Harbin, China; Qasem, S.N., Computer Science Department, College of Computer and Information Sciences, Al Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia, Department of Computer Science, Faculty of Applied Science, Taiz University, Taiz, Yemen; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Parvin, H., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang, 550000, Viet Nam, Department of Computer Science, Nourabad Mamasani Branch, Islamic Azad University, Mamasani, Iran; Pho, K.-H., Fractional Calculus, Optimization and Algebra Research Group, Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Mansor, Z., Fakulti Teknologi dan Sains Maklumat, Universiti Kebangsaan Malaysia, UKM Bangi, Selangor, 43600, Malaysia	Computers, Materials and Continua	2021	15462218
4584	Securing Internet of Drones with Identity-Based Proxy Signcryption	Khan M.A., Shah H., Rehman S.U., Kumar N., Ghazali R., Shehzad D., Ullah I.	Khan, M.A., Hamdard Institute of Engineering and Technology, Hamdard University, Islamabad, 44000, Pakistan; Shah, H., Department of Computer Science, College of Computer Science, King Khalid University, Abha, 62529, Saudi Arabia; Rehman, S.U., Department of Electrical Engineering, Namal Institute, Mainwali, 42250, Pakistan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 222001, India; Ghazali, R., Faculty of Computer Science and Information Technology, Universiti Tun Hussein Onn Malaysia, Batu Pahat, 86400, Malaysia; Shehzad, D., Department of Computer Science, National University of Computer and Emerging Sciences, Chiniot-Faisalabad Campus, Islamabad, 35400, Pakistan; Ullah, I., Hamdard Institute of Engineering and Technology, Hamdard University, Islamabad, 44000, Pakistan	IEEE Access	2021	21693536
4585	Security Enhanced Sentence Similarity Computing Model Based on Convolutional Neural Network	Sun Q., Huang X., Kibalya G., Kumar N., Kumar S.V.N.S., Zhang P., Xie D.	Sun, Q., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Huang, X., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Kibalya, G., Department of Network Engineering, Technical University of Catalonia (UPC), Barcelona, Spain; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Kumar, S.V.N.S., School of Information Technology and Engineering, Vellore Institute of Technology, Vellore, India; Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China, State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, China; Xie, D., State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, China	IEEE Access	2021	21693536
4586	Blockchain for COVID-19: a comprehensive review	Shah H., Shah M., Tanwar S., Kumar N.	Shah, H., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Shah, M., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, King Abdul Aziz University, Jeddah, Saudi Arabia	Personal and Ubiquitous Computing	2021	16174909
4587	Neural Style Palette: A Multimodal and Interactive Style Transfer from a Single Style Image	Virtusio J.J., Ople J.J.M., Tan D.S., Tanveer M., Kumar N., Hua K.-L.	Virtusio, J.J., CSIE, National Taiwan University of Science and Technology, Taipei, Taiwan; Ople, J.J.M., CSIE, National Taiwan University of Science and Technology, Taipei, Taiwan; Tan, D.S., CSIE, National Taiwan University of Science and Technology, Taipei, Taiwan; Tanveer, M., Department of Mathematics, Indian Institute of Technology Indore, Simrol, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Hua, K.-L., CSIE, National Taiwan University of Science and Technology, Taipei, Taiwan	IEEE Transactions on Multimedia	2021	15209210

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4588	Matrix of Skin Color Satisfaction, Body-Image Cognitive Distortions and Self-esteem of the Young Adults	Mallick A., Paul M., Ahmed N., Biswas S., Ghosh S., Chakroborty N.K.	Mallick, A., Rice Education, Belghoria, Kolkata, India; Paul, M., School of Life Science and Biotechnology, Department of Biotechnology, Adamas University, Barasat, West Bengal, India; Ahmed, N., Department of Microbiology, Fergusson College, Pune, India; Biswas, S., Webster University, Bangkok, Thailand; Ghosh, S., West Bengal State University, Barasat, West Bengal, India; Chakroborty, N.K., Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology, P.O. Box 32, Bhadson Road, Patiala, Punjab, 147004, India	Lecture Notes in Bioengineering	2021	2195271X
4589	A Survey on LTE/LTE-A Radio Resource Allocation Techniques for Machine-to-Machine Communication for B5G Networks	Singh U., Dua A., Tanwar S., Kumar N., Alazab M.	Singh, U., Birla Institute of Technology and Science, Pilani, 333031, India; Dua, A., Birla Institute of Technology and Science, Pilani, 333031, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, 382481, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Alazab, M., College of Engineering, Charles Darwin University, It & Environment, Casuarina, NT 0810, Australia	IEEE Access	2021	21693536
4590	Use of Social Media in Collaborative Learning among the Post Graduate Students of Selected Universities in India	Baqee A., Hossain A., Sevukan R.	Baqee, A., Pondicherry University; Hossain, A., Thapar Institute of Engineering and Technology; Sevukan, R., Pondicherry University	Library Philosophy and Practice	2021	15220222
4591	Attention Recognition System in Online Learning Platform Using EEG Signals	Gupta S., Kumar P.	Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Electrical Engineering	2021	18761100
4592	Characterization and Optimization of Machining Parameters for High-Strength Steel	Garg G., Thakur B., Sharma S.K.	Garg, G., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Thakur, B., International Association of Engineers, Hong Kong; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Lecture Notes in Mechanical Engineering	2021	21954356
4593	Immunoinformatics aided design of peptide-based vaccines against ebolaviruses	Jain S., Baranwal M.	Jain, S., University Institute of Biotechnology, Chandigarh University, Mohali, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Vitamins and Hormones	2021	836729
4594	Modified Sliding Singular Spectrum Analysis-Based Noncontact-Type Detection of Separated Instrument in Root Canal Therapy Using Low-Frequency Ultrasonic Pattern Transceiver Design	Kapoor R., Sharma D., Kapoor A.	Kapoor, R., Department of Electronics and Communication Engineering, Delhi Technological University, New Delhi, 110042, India; Sharma, D., Department of Electronics and Communication Engineering, Delhi Technological University, New Delhi, 110042, India; Kapoor, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	IEEE Transactions on Instrumentation and Measurement	2021	189456
4595	An Easy-to-Understand Method to Construct Desired Distance-Like Measures	Fu W.Q., Li S.G., Garg H., Liu H., Khalil A.M., Zhao J.	Fu, W.Q., College of Mathematics and Statistics, Shaanxi Normal University, Xi'an, 710062, China, Freshman Academy, Xi'an Technological University, Xi'an, 710021, China; Li, S.G., College of Mathematics and Statistics, Shaanxi Normal University, Xi'an, 710062, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Liu, H., School of Science, Guangxi University of Nationalities, Nanning, 530006, China; Khalil, A.M., Department of Mathematics, Faculty of Science, Al-Azhar University, Assiut, 71524, Egypt; Zhao, J., School of Psychology, Shaanxi Normal University, Xi'an, 710062, China	Complexity	2021	10762787
4596	A survey of load balancing and implementation of clustering-based approach for clouds	Sharma A., Pandey R., Singh S.P., Kumar R.	Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India; Pandey, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, S.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Recent Advances in Computer Science and Communications	2021	26662558
4597	An Anonymous Certificateless Signcryption Scheme for Internet of Health Things	Ullah I., Alkhalifah A., Rehman S.U., Kumar N., Khan M.A.	Ullah, I., HIET, Hamdard University, Islamabad, 44000, Pakistan; Alkhalifah, A., Department of Information Technology, College of Computer, Qassim University, Buraydah, 51452, Saudi Arabia; Rehman, S.U., Department of Electrical Engineering, Namal Institute, Mainwali, 42250, Pakistan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand 248007, India; Khan, M.A., HIET, Hamdard University, Islamabad, 44000, Pakistan	IEEE Access	2021	21693536
4598	Magnetohydrodynamic system – a need for a sustainable power generation source	Gupta J., Singla M.K., Nijhawan P.	Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Magnetohydrodynamics	2021	0024998X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4599	Driving Style Recognition System Using Smartphone Sensors Based on Fuzzy Logic	Kalra N., Goyal R.K., Parashar A., Singh J., Singla G.	Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Goyal, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Parashar, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singla, G., Computer Science and Engineering, University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India	Computers, Materials and Continua	2021	15462218
4600	An optimized framework for surgical team selection	Petwal H., Rani R.	Petwal, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Computers, Materials and Continua	2021	15462218
4601	Machine Learning Applications in Anti-cancer Drug Discovery	Sharma A., Rani R.	Sharma, A., JUIT, Wakhnaghat, Solan, India; Rani, R., T.I.E.T, Patiala, India	EAI/Springer Innovations in Communication and Computing	2021	25228595
4602	Design and fabrication of a socket jockey and its use in home automation	Jain R., Garg V., Nayyar A., Sethi D., Ray A., Gupta V., Singh S.	Jain, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nayyar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sethi, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ray, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2021	21954356
4603	Experimental and modelling studies of hydrogen generation from NaBH ₄ /Al ₂ O ₃ nanoparticles/H ₂ O system with CoCl ₂ as a catalyst	Sudan A., Kaur A., Gangacharyulu D., Gupta R.K.	Sudan, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gangacharyulu, D., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Bulgarian Chemical Communications	2021	8619808
4604	Conceptual ECCE Happiness Framework for Preschools: To Introduce Importance of Happiness to Promote Social and Emotional Competence in Preschool Children	Kaur J., Sharma A.	Kaur, J., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, A., Thapar Institute of Engineering & Technology, Patiala, India	SAGE Open	2021	21582440
4605	Determinants of Blockchain Technology Adoption in Supply Chains by Small and Medium Enterprises (SMEs) in India	Kumar Bhardwaj A., Garg A., Gajpal Y.	Kumar Bhardwaj, A., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Punjab, Patiala, India; Garg, A., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Punjab, Patiala, India; Gajpal, Y., Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada	Mathematical Problems in Engineering	2021	1024123X
4606	Application of oppositional runner root algorithm (ORRA) for economic optimization of micro grid	Gupta R., Gaur A.M., Mahajan A.N.	Gupta, R., Electrical and Electronics Engineering, Department, MAIT, Maharaja Agrasen University, H.P, Baddi, India; Gaur, A.M., Electrical and Instrumentation Engineering Department (EIED), Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mahajan, A.N., Electrical and Electronics Engineering, Department, MAIT, Maharaja Agrasen University, H.P, Baddi, India	Proceedings of the 2021 1st International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies, ICAECT 2021	2021	
4607	Internal Combustion Engine Exhaust Waste Heat Recovery Using Thermoelectric Generator Heat Exchanger	Noh N.A.S.M., Singh B.S.B., Remeli M.F., Oberoi A.	Noh, N.A.S.M., Fakulti Kejuruteraan Mekanikal, Universiti Teknologi MARA, Shah Alam, Selangor 40450, Malaysia; Singh, B.S.B., Fakulti Kejuruteraan Mekanikal, Universiti Teknologi MARA, Shah Alam, Selangor 40450, Malaysia; Remeli, M.F., Fakulti Kejuruteraan Mekanikal, Universiti Teknologi MARA, Shah Alam, Selangor 40450, Malaysia; Oberoi, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2021	22897879
4608	A comparative study on widely used data processing approaches for infrared non-destructive testing and evaluation of concrete structures	Mulaveesala R., Dua G., Rani A., Sharma A., Kaur K.	Mulaveesala, R., Infrared Imaging Laboratory, Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, 140001, India; Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Rani, A., Infrared Imaging Laboratory, Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, 140001, India; Sharma, A., Infrared Imaging Laboratory, Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, 140001, India; Kaur, K., Infrared Imaging Laboratory, Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, 140001, India	Proceedings of SPIE - The International Society for Optical Engineering	2021	0277786X
4609	Existence, stability and well-posedness of fixed point problem with application to integral equation	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics	2021	12237027

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4610	Effectiveness of Top-Tier Information Technology Software Service Companies: A Multi-Component Perspective	Goyal S., Sah A.N., Puri J.	Goyal, S., School of Humanities and Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India; Sah, A.N., School of Humanities and Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India; Puri, J., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Global Information Technology Management	2021	1097198X
4611	Self-Assessment of Teachers' Communication Style and Its Impact on Their Communication Effectiveness: A Study of Indian Higher Educational Institutions	Dhillon N., Kaur G.	Dhillon, N., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., Thapar Institute of Engineering and Technology, Patiala, India	SAGE Open	2021	21582440
4612	Multi-UAV cooperative task assignment based on orchard picking algorithm	Liu W., Zheng X., Garg H.	Liu, W., School of Automation, Beijing Institute of Technology, Beijing, 100081, China; Zheng, X., School of Automation, Beijing Institute of Technology, Beijing, 100081, China; Garg, H., Thapar Institute of Engineering and Technology, School of Mathematics, Punjab, 147004, India	International Journal of Computational Intelligence Systems	2021	18756891
4613	Development and analysis of laser-assisted bending with moving pre-displacement load	Kant R., Gurung H., Sarma U., Joshi S.N.	Kant, R., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Bara Phool, Rupnagar, Punjab, 140001, India; Gurung, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Bhadsan Road., Punjab, Patiala, 147004, India; Sarma, U., Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Joshi, S.N., Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India	Lasers in Engineering	2021	8981507
4614	Tribo-performance analysis of HVOF sprayed 86WC-10Co4Cr & Ni-Cr2O3 on AISI 316L steel using DOE-ANN methodology	Singh J.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Industrial Lubrication and Tribology	2021	368792
4615	Recent approaches of repositioning and traditional drugs for the treatment of COVID-19 pandemic outbreak	Tandon N., Luxami V., Tandon R., Paul K.	Tandon, N., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tandon, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mini-Reviews in Medicinal Chemistry	2021	13895575
4616	Photocatalytic degradation and mineralization of amoxicillin and ofloxacin using TiO2-SiO2 composites	Rani S., Garg A., Singh N.	Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Garg, A., Department of Chemical Engineering, National Institute of Technology, Hamirpur, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Toxicological and Environmental Chemistry	2021	2772248
4617	CT Image Segmentation Method of Liver Tumor Based on Artificial Intelligence Enabled Medical Imaging	Liu L., Wang L., Xu D., Zhang H., Sharma A., Tiwari S., Kaur M., Khurana M., Shah M.A.	Liu, L., Radiology Department, Affiliated Hospital, Gansu University of Chinese Medicine, Lanzhou, Gansu, 73000, China; Wang, L., Radiology Department, Affiliated Hospital, Gansu University of Chinese Medicine, Lanzhou, Gansu, 73000, China; Xu, D., Radiology Department, Affiliated Hospital, Gansu University of Chinese Medicine, Lanzhou, Gansu, 73000, China; Zhang, H., Radiology Department, Affiliated Hospital, Gansu University of Chinese Medicine, Lanzhou, Gansu, 73000, China, Affiliated Hospital, Gansu University of Chinese Medicine, Lanzhou, Gansu, 73000, China; Sharma, A., Institute of Computer Technology and Information Security, Southern Federal University, Rostov-on-Don, Russian Federation; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, M., Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India; Khurana, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Shah, M.A., Bakhtar University, Kabul, Afghanistan	Mathematical Problems in Engineering	2021	1024123X
4618	Intelligent SLA-Aware VM Allocation and Energy Minimization Approach with EPO Algorithm for Cloud Computing Environment	Samriya J.K., Chandra Patel S., Khurana M., Tiwari P.K., Cheikhrouhou O.	Samriya, J.K., Department of Information Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India; Chandra Patel, S., School of Computer Science and Engineering, VIT Bhopal University, Bhopal, India; Khurana, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Tiwari, P.K., Manipal University Jaipur, Jaipur, India; Cheikhrouhou, O., College of Computers and Information Technology, Taif University, Taif, 21944, Saudi Arabia	Mathematical Problems in Engineering	2021	1024123X
4619	Design of Treadmill Cycle-Walking on Wheels	Garg D., Yadav A., Garga G., Singhal A., Singh M., Singla S.K.	Garg, D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Garga, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singhal, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2021	23674512

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4620	Effect of processing and storage on the physicochemical composition and quality of fresh, canned and dehydrated okra fruits	Rani J., Shelke A.R., Bansal B., Gautam V.	Rani, J., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Shelke, A.R., Deptt of FST, Punjab Agricultural University, Ludhiana, 141001, India; Bansal, B., Deptt of FST, Punjab Agricultural University, Ludhiana, 141001, India; Gautam, V., Chitkara University, Institute of Engineering and Technology, Chitkara University, Rajpura, 174103, India	Materials Today: Proceedings	2021	22147853
4621	Routing protocols & unmanned aerial vehicles autonomous localization in flying networks	Khan I.U., Shah S.B.H., Wang L., Aziz M.A., Stephan T., Kumar N.	Khan, I.U., Department of Electronic Engineering, School of Engineering and Applied Sciences (SEAS), Isra University, Islamabad Campus, Islamabad, Pakistan; Shah, S.B.H., School of Software, Dalian University of Technology, Dalian, China; Wang, L., School of Software, Dalian University of Technology, Dalian, China; Aziz, M.A., Department of Electronic Engineering, School of Engineering and Applied Sciences (SEAS), Isra University, Islamabad Campus, Islamabad, Pakistan; Stephan, T., Department of Computer Science and Engineering, M. S Ramaiah University of Applied Sciences, Bangalore, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India	International Journal of Communication Systems	2021	10745351
4622	Agglomeration of Pet Coke and Rice Straw as Mixed Fuel for Power Generation	Singh H., Adeleke A.A., Singh C., Ikubanni P.P., Orhadahwe T.A., Agboola O.O.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Adeleke, A.A., Department of Mechanical Engineering, College of Engineering, Landmark University, Omu-Aran, Nigeria; Singh, C., Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India; Ikubanni, P.P., Department of Mechanical Engineering, College of Engineering, Landmark University, Omu-Aran, Nigeria; Orhadahwe, T.A., Department of Mechanical Engineering, Faculty of Engineering and Technology, University of Ibadan, Ibadan, Nigeria; Agboola, O.O., Department of Mechanical Engineering, College of Engineering, Landmark University, Omu-Aran, Nigeria	Petroleum and Coal	2021	13377027
4623	Low cost and centimeter-level global positioning system accuracy using real-time kinematic library and real-time kinematic gpsa	Gianey H.K., Ali M., Vijayakumar V., Sharma A., Kumar R.	Gianey, H.K., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Ali, M., School of Agricultural, Computational and Environmental Science, University of Southern Queensland 4300, Australia; Vijayakumar, V., School of Computer Science and Engineering, Vellore Institute of Technology, Chennai, India; Sharma, A., Department of Electronics and Communication, Jaypee University of Information Technology, Solan, India; Kumar, R., Department of Electronics and Communication, Jaypee University of Information Technology, Solan, India	Recent Advances in Computer Science and Communications	2021	26662558
4624	Is CSR expenditure relevant to the firms in India?	Garg A., Gupta P.K., Bhullar P.S.	Garg, A., Thapar Institute of Engineering and Technology, Deemed-to-be-University, India; Gupta, P.K., Thapar Institute of Engineering and Technology, Deemed-to-be-University, India; Bhullar, P.S., Maharaja Ranjit Singh Punjab Technical University, India	Organizations and Markets in Emerging Economies	2021	20294581
4625	A Systematic Review on NOMA Variants for 5G and beyond	Budhiraja I., Kumar N., Tyagi S., Tanwar S., Han Z., Piran M.J., Suh D.Y.	Budhiraja, I., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Computing and Informatics Department, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 122002, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Han, Z., Department of Electrical and Computer Engineering, University of Houston, Houston, TX 77004, United States, Department of Computer Science and Engineering, Kyung Hee University, Seoul, 02447, South Korea; Piran, M.J., Department of Computer Science and Engineering, Sejong University, Seoul, 05006, South Korea; Suh, D.Y., Department of Electronics and Information Convergence Engineering, Kyung Hee University, Seoul, 02447, South Korea	IEEE Access	2021	21693536
4626	Evidence Theory in Picture Fuzzy Set Environment	Garg H., Sujatha R., Nagarajan D., Kavikumar J., Gwak J.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Sujatha, R., Department of Mathematics, SSN College of Engineering, Chennai, India; Nagarajan, D., Department of Mathematics, Hindustan Institute of Technology and Science, Chennai, India; Kavikumar, J., Fuzzy Mathematics and Applications, Faculty of Applied Sciences and Technology, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia; Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of AI Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of IT and Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea	Journal of Mathematics	2021	23144629

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4627	Analysis of Phase Velocity of Love Waves in Rigid and Soft Mountain Surfaces: Exponential Law Model	Bharti U., Vaishnav P.K., Abo-Dahab S.M., Bouslimi J., Mahmoud K.H.	Bharti, U., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Vaishnav, P.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Abo-Dahab, S.M., Department of Mathematics, Faculty of Science, South Valley University, Qena, 83523, Egypt; Department of Computer Science, Faculty of Computers and Information, Luxor University, Armant, Egypt; Bouslimi, J., Department of Physics, College of Science, Taif University, Taif, Saudi Arabia; Mahmoud, K.H., Department of Physics, College of Khurma University College, Taif University, Taif, Saudi Arabia	Complexity	2021	10762787
4628	Some Complex Intuitionistic Uncertain Linguistic Heronian Mean Operators and Their Application in Multiattribute Group Decision Making	Garg H., Ali Z., Gwak J., Mahmood T., Aljahdali S.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of AI Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of IT and Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Aljahdali, S., Department of Computer Science, College of Computers and Information Technology, Taif University, P. O. Box 11099, Taif, 21944, Saudi Arabia	Journal of Mathematics	2021	23144629
4629	A review on machine-learning based code smell detection techniques in object-oriented software system(s)	Kaur A., Jain S., Goel S., Dhiman G.	Kaur, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Goel, S., Department of Computer Science, Bennett University, Noida, India; Dhiman, G., Department of Computer Science, Government Bikram College of Commerce, Patiala, India	Recent Advances in Electrical and Electronic Engineering	2021	23520965
4630	In vitro large scale clonal propagation of achyranthes aspera l.: A high value medicinal plant	Anand M., Singh S.	Anand, M., Amity Institute of Biotechnology, Amity University, Gurgaon, Haryana, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Medicinal Plants	2021	9754261
4631	The Effect of Biofeedback Therapy Combined with Comprehensive Nursing Intervention on the Quality of Life of Patients with Functional Constipation Based on Dynamic Magnetic Resonance Defecation	Kuang Z., Dai S., Xiao Y., Luo W., Tian J., Sharma A., Tiwari S., Gupta M., Kaur M., Shah M.A.	Kuang, Z., The Third Affiliated Hospital, South China University, Hengyang, Hunan, 421999, China; Dai, S., The Third Affiliated Hospital, South China University, Hengyang, Hunan, 421999, China; Xiao, Y., The Third Affiliated Hospital, South China University, Hengyang, Hunan, 421999, China; Luo, W., The Third Affiliated Hospital, South China University, Hengyang, Hunan, 421999, China; Tian, J., Affiliated Hospital, Northwest Minzu University, Lanzhou, Gansu, 730030, China; Sharma, A., Institute of Computer Technology and Information Security, Southern Federal University, Rostov-on-Do, Russian Federation; Tiwari, S., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, M., Computer Science and Engineering Department, Moradabad Institute of Technology, Moradabad, India; Kaur, M., Computer Science Engineering, School of Engineering and Applied Sciences, Bennett University, Greater Noida, 201310, India; Shah, M.A., Bakhtar University, Kabul, Afghanistan	Journal of Healthcare Engineering	2021	20402295
4632	Experimental Analysis of Hydrocarbon Refrigerant and CuO Nano-Particles Based Vapour Compression System	Kaushik R., Sharma R.K., Kalsia M., Lal K.	Kaushik, R., Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Sharma, R.K., Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Lal, K., Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, India	Lecture Notes in Mechanical Engineering	2021	21954356
4633	Structural Analysis of a Typical Foldable Bicycle Using CAE Tools	Bisht A.S., Avikal S., Singh R., Nithin Kumar K.C., Rawat A.S.	Bisht, A.S., Department of Mechanical Engineering, Graphic Era Hill University, Dehradun, India; Avikal, S., Department of Mechanical Engineering, Graphic Era Hill University, Dehradun, India; Singh, R., Department of Mechanical Engineering, Graphic Era Hill University, Dehradun, India; Nithin Kumar, K.C., Department of Mechanical Engineering, Graphic Era Deemed to Be University, Dehradun, India; Rawat, A.S., L M Thaper School of Management, Thaper University, Patiala, India	Lecture Notes in Mechanical Engineering	2021	21954356
4634	Efficient Single Image Dehazing Model Using Metaheuristics-Based Brightness Channel Prior	Kehar V., Chopra V., Singh B.K., Tiwari S.	Kehar, V., Department of Computer Science and Engineering, I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Chopra, V., Department of Computer Science and Engineering, Dav Institute of Engineering and Technology, Jalandhar, 144008, India; Singh, B.K., Faculty of Computing and Software Engineering, Arba Minch University, Arba Minch, Ethiopia; Tiwari, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Mathematical Problems in Engineering	2021	1024123X
4635	Algorithms for a Generalized Multipolar Neutrosophic Soft Set with Information Measures to Solve Medical Diagnoses and Decision-Making Problems	Zulqarnain R.M., Garg H., Siddique I., Ali R., Alsubie A., Hamadneh N.N., Khan I.	Zulqarnain, R.M., Department of Mathematics, University of Management and Technology, Sialkot Campus, Lahore, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Siddique, I., Department of Mathematics, University of Management and Technology, Lahore, 54770, Pakistan; Ali, R., Department of Mathematics, College of Science and Arts, King Khalid University, Muhayil, Abha, 61413, Saudi Arabia; Alsubie, A., Department of Basic Sciences, College of Science and Theoretical Studies, Saudi Electronic University, Riyadh, Saudi Arabia; Hamadneh, N.N., Department of Basic Sciences, College of Science and Theoretical Studies, Saudi Electronic University, Riyadh, Saudi Arabia; Khan, I., Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	Journal of Mathematics	2021	23144629

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4636	Balgran: solving issues of an NGO in Jammu and Kashmir	Mahajan A., Narayanamurthy G.	Mahajan, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Narayanamurthy, G., Management School, University of Liverpool, Liverpool, United Kingdom	Emerald Emerging Markets Case Studies	2021	20450621
4637	Prediction of temporal atmospheric boundary layer height using long short-term memory network	Kumar N., Soni K., Agarwal R.	Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Soni, K., CSIR-National Physical Laboratory, New Delhi, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Tellus, Series A: Dynamic Meteorology and Oceanography	2021	2806495
4638	Bibliometric analysis of ecopreneurship using VOSviewer and RStudio Bibliometrix, 1989–2019	Guleria D., Kaur G.	Guleria, D., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Library Hi Tech	2021	7378831
4639	Planet Aled: can it sustain its first-mover advantage and scale-up?	Sharma A., Ghuman K.	Sharma, A., Department of Entrepreneurship, IIM Indore, Indore, India; Ghuman, K., Department of Management, Thapar Institute of Engineering and Technology, Patiala, India	Emerald Emerging Markets Case Studies	2021	20450621
4640	Adaptive online learning for classification under concept drift	Goel K., Batra S.	Goel, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala (Punjab), India	International Journal of Computational Science and Engineering	2021	17427185
4641	PIN Inference Attack: A Threat to Mobile Security and Smartphone-controlled Robots	Naval S., Pandey A., Gupta S., Singal G., Vinoba V., Kumar N.	Naval, S., Department of Computer Science and Engineering, Malaviya National Institute of Technology, Jaipur.; Pandey, A., Software Developer Engineer, Dell EMC, Bangalore.; Gupta, S., Department of Computer Science and Engineering, National Institute of Technology, Warangal.; Singal, G., Department of Computer Science and Engineering, Bennett University, Greater Noida. (e-mail: gaurav.singal@bennett.edu.in); Vinoba, V., Department of Computer Science and Engineering, National Institute of Technology, Warangal.; Kumar, N., Thapar Institute of Engineering and Technology, India and Department of Computer Science and Information Engineering, Asia University, Taiwan and King Abdul Aziz University, Saudi Arabia.	IEEE Sensors Journal	2021	1530437X
4642	Threats and Corrective Measures for IoT Security with Observance of Cybercrime: A Survey	Rani S., Kataria A., Sharma V., Ghosh S., Karar V., Lee K., Choi C.	Rani, S., Department of Computer Science and Engineering, Gulzar Group of Institutes, Khanna, Punjab, 141401, India; Kataria, A., Optical Devices and Systems, CSIR-CSIO, Chandigarh, 160030, India; Sharma, V., EECS, Queen's University, Belfast, United Kingdom; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Karar, V., Optical Devices and Systems, CSIR-CSIO, Chandigarh, 160030, India; Lee, K., School of Computer Software, Daegu Catholic University, Gyeongsan-si, South Korea; Choi, C., Department of Computer Engineering, Gachon University, Seongnam, South Korea	Wireless Communications and Mobile Computing	2021	15308669
4643	Cytokine, chemokine, and metalloprotease activation in the serum of patients with nephropathia epidemica from the republic of tatarstan and the republic of mordovia, Russia	Martynova E., Davidyuk Y., Kabwe E., Garanina E.E., Shakirova V., Pavelkina V., Uskova Y., Stott R.J., Foster T.L., Markelova M., Goyal M., Gupta A., Bhola M., Kumar V., Baranwal M., Rizvanov A.A., Khaiboullina S.F.	Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Davidyuk, Y., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Kabwe, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Garanina, E.E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Shakirova, V., Infectious Diseases Department, Kazan State Medical Academy, Kazan, 420012, Russian Federation; Pavelkina, V., Infectious Diseases Department, National Research Ogarev Mordovia State University, Saransk, 430005, Russian Federation; Uskova, Y., Infectious Diseases Department, National Research Ogarev Mordovia State University, Saransk, 430005, Russian Federation; Stott, R.J., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, The University of Nottingham, Sutton Bonington Campus, Loughborough, LE12 5RD, United Kingdom; Foster, T.L., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, The University of Nottingham, Sutton Bonington Campus, Loughborough, LE12 5RD, United Kingdom; Markelova, M., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Goyal, M., Doconvid.ai, Bestech Business Tower, Mohali, 160055, India; Gupta, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhola, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Khaiboullina, S.F., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation	Pathogens	2021	20760817
4644	Some Similarity and Distance Measures between Complex Interval-Valued q -Rung Orthopair Fuzzy Sets Based on Cosine Function and their Applications	Garg H., Ali Z., Mahmood T., Aljhdali S.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Aljhdali, S., Department of Computer Science, College of Computers and Information Technology, Taif University, P.O. Box 11099, Taif, 21944, Saudi Arabia	Mathematical Problems in Engineering	2021	1024123X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4645	Experimental investigation of nano second fiber laser micro grooving on cylindrical surface	Poddar R., Sahu A.K., Jha S.	Poddar, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sahu, A.K., Department of Mechanical Engineering, Indian Institute of Technology, Delhi, 110016, India; Jha, S., Department of Mechanical Engineering, Indian Institute of Technology, Delhi, 110016, India	Materials Today: Proceedings	2021	22147853
4646	3D printed tensile and flexural prototypes of thermoplastic matrix reinforced with multi-materials: A statistical analysis	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Dept of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Dept of Mech. Engineering, National Institute for Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Dept of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Dept of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Materials Today: Proceedings	2021	22147853
4647	A numerical investigation of hall and radiation effects on MHD three-dimensional casson fluid flow in a porous medium	Prashu, Nandkeolyar R., Chamkha A.J.	Prashu, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Nandkeolyar, R., Department of Mathematics, National Institute of Technology Jamshedpur, Jamshedpur, Jharkhand, 831014, India; Chamkha, A.J., Faculty of Engineering, Kuwait College of Science and Technology, Doha District, Kuwait	Journal of Porous Media	2021	1091028X
4648	Machine learning based framework for classification of children with adhd and healthy controls	Parashar A., Kalra N., Singh J., Goyal R.K.	Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goyal, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Intelligent Automation and Soft Computing	2021	10798587
4649	Elements of stress relieving strategies amongst engineering students	Joshi A., Kiran R.	Joshi, A., Electrical Engineering Department, Thapar Polytechnic College, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Work	2021	10519815
4650	Optimal Fractional-Order Tilted-Integral-Derivative Controller for Frequency Stabilization in Hybrid Power System Using Salp Swarm Algorithm	Sharma M., Prakash S., Saxena S., Dhundhara S.	Sharma, M., Department of Electrical Engineering, Baba Hira Singh Bhattal Institute of Engineering and Technology, Lehragaga, India; Prakash, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Dhundhara, S., Department of Basic Engineering, COAE&T, CCS Haryana Agricultural University, Hisar, India	Electric Power Components and Systems	2021	15325008
4651	Chelating agent and substrate effect on hydrothermal growth of Yb3+/Er3+ doped NaYF4 film	Duhan S., Sahoo K., Ahmad Md.I., Singh S.K., Kumar M.	Duhan, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sahoo, K., Department of Chemical Engineering and Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi, 221005, India; Ahmad, Md.I., Department of Ceramic Engineering, Indian Institute of Technology, Banaras Hindu University, Varanasi, 221005, India; Singh, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, M., Department of Chemical Engineering and Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi, 221005, India	Processing and Application of Ceramics	2021	18206131
4652	Localization and tracking of mobile jammer sensor node detection in multi-hop wireless sensor network	Porkodi K.P., Karthika I., Gianey H.K.	Porkodi, K.P., Department of Computer Science, Al-Ameen Engineering College, Erode, India; Karthika, I., Department of Computer Science, M. Kumaraswamy Engineering College, Karur, India; Gianey, H.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Recent Advances in Computer Science and Communications	2021	26662558
4653	Development of high performance hybrid fiber reinforced concrete using different fine aggregates	Gupta H., Bansal P.P., Sharma R.	Gupta, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Bansal, P.P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Advances in Concrete Construction	2021	22875301
4654	GCMD: Genetic Correlation Multi-Domain Virtual Network Embedding Algorithm	Zhang P., Pang X., Kibalya G., Kumar N., He S., Zhao B.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Pang, X., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Kibalya, G., Department of Network Engineering, Technical University of Catalonia (UPC), Barcelona, 08034, Spain; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; He, S., School of Computer Science and Engineering, Linyi University, Linyi, 276000, China; Zhao, B., School of Computer Science and Engineering, Linyi University, Linyi, 276000, China	IEEE Access	2021	21693536
4655	Mitigation of pmd over dwdm system using polarization interleaving	Geetika, Kaler R.S., Kaur G.	Geetika, Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab, 147004, India; Kaler, R.S., Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering and Technology University, Patiala, Punjab, 147004, India; Kaur, G., Electronics and Communication Engineering Department, University Institute of Engineering, Chandigarh University, Gharuan, Punjab, 140413, India	Optoelectronics and Advanced Materials, Rapid Communications	2021	18426573
4656	A novel fuzzy based weighted aggregation based multi objective function for AVR optimization	Bhullar A.K., Kaur R., Sondhi S.	Bhullar, A.K., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kaur, R., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Sondhi, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	Journal of Intelligent and Fuzzy Systems	2021	10641246

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4657	Non-adiabatic Wall Effects on Transonic Shock/Boundary Layer Interaction	Bhola S., Sengupta T.K.	Bhola, S., Thapar Institute of Engineering and Technology, Patiala, India; Sengupta, T.K., High Performance Computing Laboratory, Department of Aerospace Engineering, IIT Kanpur, Kanpur, India	Lecture Notes in Mechanical Engineering	2021	21954356
4658	Impact of SHGs on social, economic and political women empowerment: A case study of Ghaziabad District, India	Aggarwal S., Rameshwar R., Pahuja A.	Aggarwal, S., Chandigarh University, Gharuan, Punjab, India; Rameshwar, R., L.M. Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed-to-be-University), Patiala, Punjab, India; Pahuja, A., Accurate Institute of Management and Technology, Greater Noida, Uttar Pradesh, India	World Review of Entrepreneurship, Management and Sustainable Development	2021	17460573
4659	Efficient hybrid passive method for the detection and localization of copy-move and spliced images	Kaur N., Jindal N., Singh K.	Kaur, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Turkish Journal of Electrical Engineering and Computer Sciences	2021	13000632
4660	Stand-alone Lightweight Security System for Native Language Using SPI Interface	Brar N.K., Kaur J., Kumar A., Bansal M., Agarwal A.	Brar, N.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, J., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bansal, M., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Networks and Systems	2021	23673370
4661	Some fixed point results in b-metric spaces and b-metric-like spaces with new contractive mappings	Jain K., Kaur J.	Jain, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Axioms	2021	20751680
4662	Relationship between organizational justice and effectiveness of human resource management practices: A mediating role of demographic information in Greater Irbid Municipality (GIM) in North Region of Hashemite Kingdom of Jordan (HKJ)	Ajlouni S.M., Ebrheem Ajlouni W.M., Al-Ajlouni W.M.	Ajlouni, S.M., Business Administration Department, Al Al-Bayt University, Al-Mafrag, Jordan; Ebrheem Ajlouni, W.M., School of Humanities and Social Science, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Al-Ajlouni, W.M., Faculty of nursing, Jordan University of Science and Technology, Ramtha, Jordan	Dirasat: Human and Social Sciences	2021	10263721
4663	Dispersion and fractional lie group analysis of time fractional equation from burgers hierarchy	Kaur B., Gupta R.K.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Gupta, R.K., Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana, 123031, India	Journal of Applied Analysis and Computation	2021	2156907X
4664	Security analysis of image CAPTCHA using a mask R-CNN-based attack model	Rathor V.S., Garg B., Patil M., Sharma G.K.	Rathor, V.S., Bennett University, Greater Noida, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Patil, M., Abv - Indian Institute of Information Technology and Management, Gwalior, 474015, India; Sharma, G.K., Abv - Indian Institute of Information Technology and Management, Gwalior, 474015, India	International Journal of Ad Hoc and Ubiquitous Computing	2021	17438225
4665	Effects of ternary fuel blends (diesel-biodiesel-n-butanol) on emission and performance characteristics of diesel engine using varying mass flow rates of biogas	Goga G., Singla V., Mahla S.K., Chauhan B.S., Dhir A., Balasubramaniam D., Singla N.	Goga, G., Department of Mechanical Engineering, K.C. College of Engineering and I.T, Nawanshahr, India; Singla, V., Department of Mechanical Engineering, Maharaja Ranjit Singh Punjab Technical University, Bhatinda, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, India; Chauhan, B.S., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, India; Balasubramaniam, D., Department of Mechanical Engineering, Mepco Schlenk Engineering College, Sivakasi, India; Singla, N., Department of Civil Engineering, I.K. Gujral Punjab Technical University Campus, Mohali, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2021	15567036
4666	Degradation and Decolourization of Methyl Orange Dye Using Fe-TiO2 Hybrid Technology (Photo-Fenton and Photocatalysis) in Fixed-Mode	Kumar L., Thakur I., Verma A., Bhatia B.S., Mangat C.K.	Kumar, L., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhatia, B.S., RIMT University, Mandi Gobindgarh, Punjab, India; Mangat, C.K., RIMT University, Mandi Gobindgarh, Punjab, India	Lecture Notes in Civil Engineering	2021	23662557
4667	Sensor-Based Optimization of Energy Efficiency in Internet of Things: A Review	Sharma M., Singla M.K., Nijhawan P., Dhingra A.	Sharma, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhingra, A., Electrical Engineering Department, Guru Nanak Dev Engineering College, Ludhiana, 141006, India	Lecture Notes in Civil Engineering	2021	23662557

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4668	Sustainable Rural Water Management Model	Cheema P.P.S., Dehal A., Reddy A.S.	Cheema, P.P.S., Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Dehal, A., Department of Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Reddy, A.S., Formerly at School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Civil Engineering	2021	23662557
4669	Tuning PID Controller for Three Interacting Tanks Using ITAE Performance Criterion	Singh P., Nijhawan P., Dhingra A.	Singh, P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Dhingra, A., Department of Electrical Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, 141006, India	Lecture Notes in Civil Engineering	2021	23662557
4670	Design and Optimization of Isostatic Mount for Space Borne Mirror	Singh A.P., Meena B.R., Tomar S.	Singh, A.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Meena, B.R., Instruments Research and Development Establishments, DRDO, Dehradun, India; Tomar, S., Instruments Research and Development Establishments, DRDO, Dehradun, India	Springer Proceedings in Physics	2021	9308989
4671	Correlation Coefficient and Entropy Measures Based on Complex Dual Type-2 Hesitant Fuzzy Sets and Their Applications	Mahmood T., Ali Z., Garg H., Zedam L., Chinram R.	Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Zedam, L., Laboratory of Pure and Applied Mathematics, Department of Mathematics, Med Boudiaf University of m'Sila, P.O. Box 166, Ichbilila, M'Sila, 28000, Algeria; Chinram, R., Algebra and Applications Research Unit, Division of Computational Science, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla, 90110, Thailand, Centre of Excellence in Mathematics, Si Ayuthaya Road, Bangkok, 10400, Thailand	Journal of Mathematics	2021	23144629
4672	Experimental analysis of wear and multi-shape burr loading during neurosurgical bone grinding	Babbar A., Jain V., Gupta D., Agrawal D., Prakash C., Singh S., Wu L.Y., Zheng H.Y., Królczyk G., Bogdan-Chudy M.	Babbar, A., Mechanical Engineering Department, Shree Guru Gobind Singh Tricentenary University, Gurugram, 122505, India, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Agrawal, D., Department of Neurosurgery, All India Institute of Medical Science (AIIMS), New Delhi, 110029, India; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Phagwara, 114441, India, School of Mechanical Engineering, Shandong University of Technology, Zibo Shandong, 255000, China; Singh, S., Department of Mechanical Engineering, National University of Singapore, Singapore, Singapore; Wu, L.Y., School of Mechanical Engineering, Shandong University of Technology, Zibo Shandong, 255000, China; Zheng, H.Y., School of Mechanical Engineering, Shandong University of Technology, Zibo Shandong, 255000, China; Królczyk, G., Department of Mechanical Engineering, Opole University of Technology, Poland; Bogdan-Chudy, M., Department of Mechanical Engineering, Opole University of Technology, Poland	Journal of Materials Research and Technology	2021	22387854
4673	Industrial scale RTD measurement using gold radiotracer	Meenakshi S., Avinash C., Haripada B., Bajpai P.K., Pant H.J.	Meenakshi, S., Department of Chemical Engineering, Chandigarh University, Mohali, Punjab, 140413, India; Avinash, C., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Haripada, B., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Pant, H.J., Isotope Application Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	Iranian Journal of Chemistry and Chemical Engineering	2021	10219986
4674	"Yes and.., but wait.., heck no!": A socially situated cognitive approach towards understanding how startup entrepreneurs process critical feedback	Kaffka G.A., Singaram R., Kraaijenbrink J., Groen A.J.	Kaffka, G.A., Department of Law, Economics and Governance, University of Utrecht, Netherlands; Singaram, R., Finance, International and Innovation Department, University of New Mexico, United States, LM Thapar School of Management, Punjab, India; Kraaijenbrink, J., Faculty of Economics and Business, University of Amsterdam, Netherlands; Groen, A.J., University of Groningen Centre of Entrepreneurship, University of Groningen, Netherlands	Journal of Small Business Management	2021	472778
4675	Intellectual capital and intellectual imperatives of higher education sector: An emerging economy perspective	Chatterji N., Kiran R.	Chatterji, N., Amity Business School, Amity University, Amity Education Valley, Gurugram, Manesar, Panchgaon Haryana, 122412, India; Kiran, R., School of Humanities and Social Science, Thapar University, P.O. Box 32, Bhadson Road, Patiala Punjab, 147004, India	International Journal of Learning and Intellectual Capital	2021	14794853
4676	Deep Learning Based Question Generation Using T5 Transformer	Grover K., Kaur K., Tiwari K., Rupali, Kumar P.	Grover, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kaur, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Tiwari, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Rupali, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, P., Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Communications in Computer and Information Science	2021	18650929
4677	Amur Tiger Detection for Wildlife Monitoring and Security	Ghosh S.B., Muddalkar K., Mishra B., Garg D.	Ghosh, S.B., Thapar Institute of Engineering and Technology, Patiala, India; Muddalkar, K., A. P. Shah Institute of Technology, Mumbai University, Thane, India; Mishra, B., Bennett University, Greater Noida, India; Garg, D., Bennett University, Greater Noida, India	Communications in Computer and Information Science	2021	18650929

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4678	Surface contribution to thermodynamic properties of solids	Ram P.N., Kushwaha M., Chatterjee A.K.	Ram, P.N., Department of Chemical Engineering, M.J.P. Rohilkhand University, Bareilly, Uttar Pradesh, India; Kushwaha, M., Department of Chemical Engineering, M.J.P. Rohilkhand University, Bareilly, Uttar Pradesh, India; Chatterjee, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Acta Physica Polonica A	2021	5874246
4679	Ai based management of food wastage	Sama L., Makkar A., Prokshitha P., Sharma B.K., Dhaloria D.	Sama, L., Deakin University, Waurn Ponds, Australia; Makkar, A., Thapar Institute of Engineering and Technology, Patiala, India; Prokshitha, P., Cse Dept Chandigarh University, Chandigarh, India; Sharma, B.K., Cse Dept Chandigarh University, Chandigarh, India; Dhaloria, D., Cse Dept Chandigarh University, Chandigarh, India	CEUR Workshop Proceedings	2021	16130073
4680	Cloud-Based Clinical Decision Support System	Oyenuga S.O., Garg L., Bhardwaj A.K., Shrivastava D.P.	Oyenuga, S.O., The University of Liverpool, Liverpool, United Kingdom; Garg, L., The University of Liverpool, Liverpool, United Kingdom, The University of Malta, Msida, Malta; Bhardwaj, A.K., Thapar Institute of Engineering and Technology, Patiala, India; Shrivastava, D.P., Higher Colleges of Technology, Abu Dhabi, United Arab Emirates	Lecture Notes in Networks and Systems	2021	23673370
4681	Automation in drip irrigation for enhancing water use efficiency in cereal systems of South Asia: Status and prospects	Sidhu R.K., Kumar R., Rana P.S., Jat M.L.	Sidhu, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, R., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Rana, P.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jat, M.L., International Maize and Wheat Improvement Center (CIMMYT), New Delhi, India	Advances in Agronomy	2021	652113
4682	Local adjustment strategy-driven probabilistic linguistic group decision-making method and its application for fog-haze influence factors evaluation	Pei L., Jin F., Langari R., Garg H.	Pei, L., School of Mathematics and Statistics, Hefei Normal University, Hefei, Anhui, China; Jin, F., School of Business, Anhui University, Hefei, Anhui, China, Department of Mechanical Engineering, Texas AM University, College Station, TX, United States; Langari, R., Department of Mechanical Engineering, Texas AM University, College Station, TX, United States; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, India	Journal of Intelligent and Fuzzy Systems	2021	10641246
4683	A minimization algorithm for fuzzy top-down tree automata over lattices	Ghorani M., Garhwal S.	Ghorani, M., Faculty of Mathematical Sciences, Shahrood University of Technology, Shahrood, Iran; Garhwal, S., Department of Csed, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Intelligent and Fuzzy Systems	2021	10641246
4684	Post-processing algorithms for the formation of online handwritten Gurmukhi character/akshara	Singh H., Sharma R.K., Malarvel M.	Singh, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Sharma, R.K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Malarvel, M., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	Journal of Intelligent and Fuzzy Systems	2021	10641246
4685	Aggregation operators of Pythagorean fuzzy soft sets with their application for green supplier chain management	Zulqarnain R.M., Xin X.L., Garg H., Khan W.A.	Zulqarnain, R.M., School of Mathematics, Northwest University, Xi'an, China; Xin, X.L., School of Mathematics, Northwest University, Xi'an, China; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology (Deemed University), Punjab, India; Khan, W.A., Department of Mathematics, Faculty of Sciences AlZulfi, Majmaah University, Majmaah, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2021	10641246
4686	Amassing the Security: An ECC-Based Authentication Scheme for Internet of Drones	Hussain S., Chaudhry S.A., Alomari O.A., Alsharif M.H., Khan M.K., Kumar N.	Hussain, S., Department of Computer Science and Software Engineering, International Islamic University Islamabad, Islamabad 44000 Pakistan (e-mail: sajid.mscs840@iiu.edu.pk.); Chaudhry, S.A., Department of Computer Engineering, Faculty of Engineering and Architecture, Istanbul Gelisim University, Istanbul 34310 Turkey (e-mail: ashraf.shehzad.ch@gmail.com); Alomari, O.A., Department of Computer Engineering, Faculty of Engineering and Architecture, Istanbul Gelisim University, Istanbul 34310 Turkey (e-mail: oalomari@gelisim.edu.tr.); Alsharif, M.H., Department of Electrical Engineering, College of Electronics and Information Engineering, Sejong University, Seoul 05006 South Korea (e-mail: malsharif@sejong.ac.kr); Khan, M.K., Center of Excellence in Information Assurance, College of Computer and Information Sciences, King Saud University, Riyadh 11653 Saudi Arabia (e-mail: mkhurr@ksu.edu.sa); Kumar, N., Department of CSED, Thapar Institute of Engineering and Technology, Punjab 147004 India and also with the, with the School of Computer Science, University of Petroleum and Energy Studies, Dehradun 248007 India, with the Department of Computer Science and Information Engineering, Asia University, Taichung City 41354 Taiwan and also with the King Abdul Aziz University, Jeddah 21589 Saudi Arabia (e-mail: neeraj.kumar@thapar.edu).	IEEE Systems Journal	2021	19328184
4687	An empiric analysis of wavelet-based feature extraction on deep learning and machine learning algorithms for arrhythmia classification	Singh R., Rajpal N., Mehta R.	Singh, R., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Rajpal, N., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Mehta, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Interactive Multimedia and Artificial Intelligence	2021	19891660
4688	Color Image Watermarking in DCT Domain Using SVR	Thakur S., Mehta R., Kasana G.	Thakur, S., Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, India; Kasana, G., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2021	23674512

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4689	Untreated rice husk ash incorporated high strength self-compacting concrete: Properties and environmental impact assessments	Sathurshan M., Yapa I., Thamboo J., Jeyakaran T., Navaratnam S., Siddique R., Zhang J.	Sathurshan, M., Department of Civil Engineering, South Eastern University of Sri Lanka, Oluvil, 32360, Sri Lanka; Yapa, I., Department of Civil Engineering, South Eastern University of Sri Lanka, Oluvil, 32360, Sri Lanka; Thamboo, J., Department of Civil Engineering, South Eastern University of Sri Lanka, Oluvil, 32360, Sri Lanka; Jeyakaran, T., Department of Civil Engineering, South Eastern University of Sri Lanka, Oluvil, 32360, Sri Lanka; Navaratnam, S., School of Engineering, RMIT University, Melbourne, 3001, Australia; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Zhang, J., School of Engineering, RMIT University, Melbourne, 3001, Australia	Environmental Challenges	2021	26670100
4690	A full input range, 1–1.8 V voltage supply scalable analog voltage comparator in 180nm CMOS	Gupta A., Singh A., Agarwal A.	Gupta, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Electronics	2021	207217
4691	Global Solar Radiation Estimation Modeling Using Artificial Neural Network: A Case Study on Metro Cities of India	Choudhary A., Pandey D., Bhardwaj S.	Choudhary, A., Electronics and Communication Engineering Department, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh, 226010, India; Pandey, D., Electronics and Communication Engineering Department, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh, 226010, India; Bhardwaj, S., Electronics and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Thapar University, Patiala, Punjab, 147001, India	Lecture Notes in Electrical Engineering	2021	18761100
4692	The Effect of Friction Stir Welding on the Mechanical Properties of Hybrid Mg/(SiCp + Al2O3p + Grp)-MMC	Hira J., Manna A., Mangal S.K., Kumar P.	Hira, J., Mechanical Engineering Department, Amity University Noida, Noida, Uttar Pradesh, India; Manna, A., Mechanical Engineering Department, PEC University of Technology, Chandigarh, India; Mangal, S.K., Mechanical Engineering Department, PEC University of Technology, Chandigarh, India; Kumar, P., Thapar University Patiala, Patiala, India	Lecture Notes in Mechanical Engineering	2021	21954356
4693	Two-Agent Single Machine Order Acceptance Scheduling Problem to Maximize Net Revenue	Li J., Gajpal Y., Bhardwaj A.K., Chen H., Liu Y.	Li, J., Department of Supply Chain Management, I.H. Asper School of Business, University of Manitoba, Winnipeg, MB R3T 5V4, Canada; Gajpal, Y., Department of Supply Chain Management, I.H. Asper School of Business, University of Manitoba, Winnipeg, MB R3T 5V4, Canada; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Patiala, Punjab, India; Chen, H., School of Business Administration, Southwestern University of Finance and Economics, Chengdu, China; Liu, Y., School of International Business, Southwestern University of Finance and Economics, Chengdu, China	Complexity	2021	10762787
4694	Algorithm for multiple attribute decision-making with interactive archimedean norm operations under pythagorean fuzzy uncertainty	Wang L., Garg H.	Wang, L., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	International Journal of Computational Intelligence Systems	2021	18756891
4695	A critical remark - Some fixed point results using property (E.A.)	Manro S., Chandok S.	Manro, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of the Indian Mathematical Society	2021	195839
4696	Simulation modeling of free space optical communication system	Sharma A., Kaler R.S.	Sharma, A., Electronics and Communication Engineering Department, JIMS Engineering Management Technical Campus, Greater Noida, 201308, India; Kaler, R.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Optical Communications	2021	1734911
4697	Data Augmentation Using GAN for Parkinson's Disease Prediction	Kaur S., Aggarwal H., Rani R.	Kaur, S., Computer Science and Engineering Department, Punjabi University, Patiala, 147002, India; Aggarwal, H., Computer Science and Engineering Department, Punjabi University, Patiala, 147002, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Thapar University, Patiala, 147004, India	Lecture Notes in Electrical Engineering	2021	18761100
4698	Design of 7 GHz Microstrip Patch Antenna for Satellite IoT- and IoE-Based Devices	Sharma M., Sharma B., Gupta A.K., Singla B.S.	Sharma, M., Chandigarh Group of Colleges, Landran, Punjab, India; Sharma, B., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Gupta, A.K., Chandigarh Group of Colleges, Landran, Punjab, India; Singla, B.S., College of Engineering and Management, Punjabi University, Patiala, India	Lecture Notes in Electrical Engineering	2021	18761100
4699	Differential calculus of fermatean fuzzy functions: Continuities, derivatives, and differentials	Yang Z., Garg H., Li X.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, India; Li, X., College of Economics and Management, Beijing University of Technology, Beijing, China	International Journal of Computational Intelligence Systems	2021	18756891
4700	New framework for fcms using dual hesitant fuzzy sets with an analysis of risk factors in emergency event	Wang Z., Wu J., Liu X., Garg H.	Wang, Z., Researching Center of Social Security, Wuhan University, Hubei, 430072, China; Wu, J., Researching Center of Social Security, Wuhan University, Hubei, 430072, China; Liu, X., School of Mathematics and Physics, Anhui University of Technology, Ma'anshan, 243002, China, Key Laboratory of Multidisciplinary Management and Control of Complex Systems of Anhui Higher Education Institutes, Anhui University of Technology, Ma'anshan, 243002, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	International Journal of Computational Intelligence Systems	2021	18756891

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4701	A novel design of current differencing transconductance amplifier with high transconductance gain and enhanced bandwidth	Rai S.K., Pandey R., Garg B., Patel S.K.	Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Garg, B., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Patel, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Turkish Journal of Electrical Engineering and Computer Sciences	2021	13000632
4702	3D landmark-based face restoration for recognition using variational autoencoder and triplet loss	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, India	IET Biometrics	2021	20474938
4703	A Taxonomy of Security Issues in Industrial Internet-of-Things: Scoping Review for Existing Solutions, Future Implications, and Research Challenges	Jayalaxmi P., Saha R., Kumar G., Kumar N., Kim T.-H.	Jayalaxmi, P., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Saha, R., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Kumar, G., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Kim, T.-H., Glocal Campus, Konkuk University, Seoul, South Korea	IEEE Access	2021	21693536
4704	Wheelchair control for disabled patients using EMG/EOG based human machine interface: a review	Kaur A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Medical Engineering and Technology	2021	3091902
4705	Complex diffusion regularisation-based low dose CT image reconstruction	Kaur K., Tiwari S.	Kaur, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S., School of Computer Science and Statistics (SCSS), Trinity College Dublin (TCD), Ireland	International Journal of Biomedical Engineering and Technology	2021	17526418
4706	Impact of different hydrodynamical mass transfer approaches in the spontaneous fission of Cf isotopes	Virk N.K., Kumar R., Sharma M.K.	Virk, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Modern Physics E	2021	2183013
4707	Uncertainty Quantification of Stochastic Epidemic SIR Models Using B-spline Polynomial Chaos	Kaur N., Goyal K.	Kaur, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Regular and Chaotic Dynamics	2021	15603547
4708	Fusion dynamics of 12C + 12C reaction: An astrophysical interest within the relativistic mean-field approach	Rana S., Kumar R., Bhuyan M.	Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	Astronomische Nachrichten	2021	46337
4709	Road infrastructure development under PPP model in India: a credit rating perspective	Koul P., Verma P., Arora L.	Koul, P., School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Verma, P., School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Arora, L., State Bank Institute of Credit and Risk Management, Gurugram, India	Built Environment Project and Asset Management	2021	2044124X
4710	Material removal rate and tool wear ratio for powder mixed dielectric based electric discharge machining	Malhi G.S., Sokhal G.S., Dhindsa G.S., Sokhal K.S.	Malhi, G.S., Dept. of Aerospace Engg., Chandigarh University, Gharuan, Punjab, India; Sokhal, G.S., Dept. of Mech. Engg., Chandigarh University, Gharuan, Punjab, India; Dhindsa, G.S., Dept. of Mech. Engg., Chandigarh University, Gharuan, Punjab, India; Sokhal, K.S., Dept. of Chemical Engg., Thapar Institute of Engg. and Tech., Patiala, Punjab, India	International Journal of Vehicle Structures and Systems	2021	9753060
4711	DILSe: Lattice-Based Secure and Dependable Data Dissemination Scheme for Social Internet of Vehicles	Gulati A., Aujla G.S., Chaudhary R., Kumar N., Obaidat M.S., Benslimane A.	Gulati, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Aujla, G.S., School of Computing, Newcastle University, Newcastle Upon Tyne, United Kingdom; Chaudhary, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Obaidat, M.S., College of Computing and Informatics, University of Sharjah, Sharjah, United Arab Emirates; Benslimane, A., School of Computing, Newcastle University, Newcastle Upon Tyne, United Kingdom	IEEE Transactions on Dependable and Secure Computing	2021	15455971
4712	Some Results on Iterative Proximal Convergence and Chebyshev Center	Shanjit L., Rohen Y., Chandok S., Devi M.B.	Shanjit, L., Department of Mathematics, NIT Manipur, Langol, 795004, India; Rohen, Y., Department of Mathematics, NIT Manipur, Langol, 795004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, M.B., Department of Mathematics, DM College of Science Manipur, Imphal, 795001, India	Journal of Function Spaces	2021	23148896
4713	Influence of rare earth particulate on the mechanical & tribological properties of Al-6063/SiC hybrid composites	Sharma V.K., Aggarwal D., Vinod K., Joshi R.S.	Sharma, V.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India, Department of Mechanical Engineering, Meerut Institute of Engineering & Technology, Meerut, U.P, India; Aggarwal, D., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Vinod, K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Particulate Science and Technology	2021	2726351

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4714	Multiple attribute decision making algorithm via picture fuzzy nano topological spaces	Alshammari I., Mani P., Ozel C., Garg H.	Alshammari, I., Department of Mathematics, Faculty of Science, University of Hafr Al Batin, Hafar Al-Batin, 31991, Saudi Arabia; Mani, P., Department of Mathematics, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu 638401, India; Ozel, C., Department of Mathematics, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Garg, H., Thapar Institute of Engineering & Technology, School of Mathematics, Deemed University, Patiala, Punjab 147004, India	Symmetry	2021	20738994
4715	SWIPT-Enabled D2D Communication Underlying NOMA-Based Cellular Networks in Imperfect CSI	Budhiraja I., Kumar N., Tyagi S., Tanwar S., Guizani M.	Budhiraja, I., Department of Electronics and Communication Engineering, Dewan v S Institute of Engineering and Technology, Meerut, Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow250103, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India, School of Computing, University of Petroleum and Energy Studies, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, King Abdul Aziz University, Jeddah, 80200, Saudi Arabia; Tyagi, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, 382481, India; Guizani, M., Qatar University, Doha, 2713, Qatar	IEEE Transactions on Vehicular Technology	2021	189545
4716	Simulating propagation of the resultant electric field vector using 3D vector representations for circular, elliptical and plane-polarised waves	Singh I., Khun K.K., Kaur B., Kaur H., Singh T.	Singh, I., PG Department of Physics, Khalsa College, Amritsar, 143005, India; Khun, K.K., PG Department of Physics, Khalsa College, Amritsar, 143005, India; Kaur, B., Department of Mathematics, Thapar University, Patiala, 147004, India; Kaur, H., PG Department of Physics, Khalsa College, Amritsar, 143005, India; Singh, T., PG Department of Physics, Khalsa College, Amritsar, 143005, India	Physics Education	2021	319120
4717	Fe-TiO2 composite beads driven hybrid process of photocatalysis and photo-Fenton for the degradation of isoproturon	Talwar S., Shandil A., Verma A.K., Basu S., Garhwal S.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shandil, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garhwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Comptes Rendus Chimie	2021	16310748
4718	A frequency selective surface with 3-D unit cells	Singh D., Yadav R.P.	Singh, D., Dept. of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Dept. of ECE, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Electromagnetic Waves and Applications	2021	9205071
4719	Studying multi-nucleon transfer reaction in a recoil mass spectrometer: A numerical simulation using Monte Carlo techniques	Biswas R., Kalkal S., Nath S.	Biswas, R., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kalkal, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nath, S., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	European Physical Journal A	2021	14346001
4720	Understanding research trends in android malware research using information modelling techniques	Singh J., Gera T., Ali F., Thakur D., Singh K., Kwak K.-S.	Singh, J., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, 140401, India; Gera, T., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, 140401, India; Ali, F., Department of Software, Sejong University, Seoul, 05006, South Korea; Thakur, D., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, 140401, India; Singh, K., Department of Computer Science and Engineering, Thapar University, Patiala, 147001, India; Kwak, K.-S., Department of Information and Communication Engineering, Inha University, Incheon, 22212, South Korea	Computers, Materials and Continua	2021	15462218
4721	Dealing with imbalanced dataset leveraging boundary samples discovered by support vector data description	Luo Z., Parvin H., Garg H., Qasem S.N., Pho K.-H., Mansor Z.	Luo, Z., Graduate School of Information, Production and Systems, Waseda University, Tokyo, Japan; Parvin, H., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang, 550000, Viet Nam, Department of Computer Science, Nourabad Mamasani Branch, Islamic Azad University, Mamasani, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Qasem, S.N., Computer Science Department, College of Computer and Information Sciences, Al Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia, Computer Science Department, Faculty of Applied Science, Taiz University, Taiz, Yemen; Pho, K.-H., Fractional Calculus, Optimization and Algebra Research Group, Faculty of Mathematics and Statistics, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Mansor, Z., Fakulti Teknologi dan Sains Maklumat, Universiti Kebangsaan Malaysia, Selangor, Malaysia	Computers, Materials and Continua	2021	15462218
4722	Effective Organizational Justice and Organizational Citizenship Behavior Using Fuzzy Logic to Obtain the Optimal Relationship	Ajlouni W.M.E., Kaur G., Alomari S.A.	Ajlouni, W.M.E., School of Humanities and Social Science, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Kaur, G., School of Humanities and Social Science, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab, 147004, India; Alomari, S.A., Faculty of Science and Information Technology, Jadara University, Irbid, Jordan	Quality Management in Health Care	2021	10638628
4723	Functionality of receptor targeted zinc-insulin quantum clusters in skin tissue augmentation and bioimaging	Kaur P., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Thapar Institute of Engineering and Technology - Virginia Tech Centre for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Drug Targeting	2021	1061186X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4724	DGS-based wideband MIMO antenna for on-off body communication with port isolation enhancement operating at 2.45 GHz industrial scientific and medical band	Gupta A., Kumar V.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Department of Electronics and Communication Engineering, Sri Sai College of Engineering and Technology, Badhani, Pathankot, India	Journal of Electromagnetic Waves and Applications	2021	9205071
4725	Study the significance of ML-ELM using combined pagerank and content-based feature selection	Roul R.K., Sahoo J.K.	Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sahoo, J.K., Department of Mathematics, BITS-Pilani, K.K.Birla Goa Campus, Zuarinagar, Goa 403726, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2021	3029743
4726	Electrical impedance spectroscopy of plant cells in aqueous buffer media over a wide frequency range of 4 Hz to 20 GHz	Kadan-Jamal K., Sophocleous M., Jog A., Desagani D., Teig-Sussholz O., Georgiou J., Avni A., Shacham-Diamand Y.	Kadan-Jamal, K., Department of Materials Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel; Sophocleous, M., Department of Electrical & Computer Engineering, EMPHASIS Research Center, University of Cyprus, Nicosia, 1678, Cyprus; Jog, A., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel; Desagani, D., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel; Teig-Sussholz, O., School of Plant Sciences and Food Security, Tel Aviv University, Tel Aviv, 69978, Israel; Georgiou, J., Department of Electrical & Computer Engineering, EMPHASIS Research Center, University of Cyprus, Nicosia, 1678, Cyprus; Avni, A., School of Plant Sciences and Food Security, Tel Aviv University, Tel Aviv, 69978, Israel; Shacham-Diamand, Y., Department of Materials Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	MethodsX	2021	22150161
4727	An Intelligent Phishing Detection Scheme Using Machine Learning	Makkar A., Kumar N., Sama L., Mishra S., Samdani Y.	Makkar, A., Chandigarh University, Ajjitgarh, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, India; Sama, L., CT Institute of Engineering Management & Technology, Lambri, India; Mishra, S., Chandigarh University, Ajjitgarh, India; Samdani, Y., Chandigarh University, Ajjitgarh, India	Advances in Intelligent Systems and Computing	2021	21945357
4728	Tamper detection technique for document images using zero watermarking in wavelet domain	Singh B., Sharma M.K.	Singh, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Computers and Electrical Engineering	2021	457906
4729	Development of the instrument for psychological contract effectiveness for service quality in academic institutions	Kaushal N., Goyal G.	Kaushal, N., Department of Business Administration, National Institute of Technology, Kurukshetra, Haryana, 136119, India; Goyal, G., LM Thapar School of Management, Village Behra, Dera Bassi, District Mohali, Punjab, 140507, India	International Journal of Management Practice	2021	14779064
4730	Development of grinding wheel type magnetorheological finishing process for blind hole surfaces	Aggarwal A., Singh A.K.	Aggarwal, A.; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Materials and Manufacturing Processes	2021	10426914
4731	Technical Proposal for Sizing of Equipment and Designing of Solar Photovoltaic System	Pattnaik M., Sharma H., Badoni M., Tatte Y., Debnath M.K.	Pattnaik, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, H., TUV-SUD, Asia, Gurgaon, India; Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tatte, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Debnath, M.K., ITER, Siksha O Anusandhan (Deemed to be University), Bhubaneswar, Odisha 751030, India	Lecture Notes in Networks and Systems	2021	23673370
4732	Numerical simulation of highly efficient lead-free perovskite layers for the application of all-perovskite multi-junction solar cell	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Superlattices and Microstructures	2021	7496036
4733	Feasibility and performance analysis of carbonated recycled aggregate concrete	Singh M., Danie Roy A.B., Waseem S., Singh H.	Singh, M., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Danie Roy, A.B., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Waseem, S., Civil Engineering Department, National Institute of Technology, Srinagar, India; Singh, H., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Sustainable Engineering	2021	19397038

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4734	Vitamin A and D Absorption in Adults with Metabolic Syndrome versus Healthy Controls: A Pilot Study Utilizing Targeted and Untargeted LC-MS Lipidomics	Chatelaine H., Dey P., Mo X., Mah E., Bruno R.S., Kopec R.E.	Chatelaine, H., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Dey, P., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mo, X., Department of Biomedical Informatics, The Ohio State University, Columbus, OH 43210, United States; Mah, E., Biofortis, Merieux NutriSciences, Addison, IL 60101, United States; Bruno, R.S., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Kopec, R.E., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States, Foods for Health Discovery Theme, The Ohio State University, Columbus, OH 43210, United States	Molecular Nutrition and Food Research	2021	16134125
4735	Comparison Among Conventional and Adaptive Gain Scheduling PID Controllers for Stabilizing an Inverted Pendulum System	Chopra V., Singla S.K., Dewan L.	Chopra, V., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147004, India; Dewan, L., Department of Electrical Engineering, National Institute of Technology Kurukshetra, Kurukshetra, Haryana 136119, India	Lecture Notes in Electrical Engineering	2021	18761100
4736	Structural Property Assessment of GFRP Reinforced Concrete Beams	Kaur G., Sharma R., Ramana A.S.	Kaur, G., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, R., Thapar Institute of Engineering & Technology, Patiala, India; Ramana, A.S., Thapar Institute of Engineering & Technology, Patiala, India	RILEM Bookseries	2021	22110844
4737	Magnetorheological finishing of variable diametric external surface of the tapered cylindrical workpieces for functionality improvement	Singh M., Singh A.K.	Singh, M., Research Scholar, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Manufacturing Processes	2021	15266125
4738	SAMKL: Sample Adaptive Multiple Kernel Learning Framework for Lung Cancer Prediction	Singh A., Dhillon A., Thind J.K.	Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Dhillon, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Thind, J.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Smart Innovation, Systems and Technologies	2021	21903018
4739	A Review for the Development of ANN Based Solar Radiation Estimation Models	Choudhary A., Pandey D., Bhardwaj S.	Choudhary, A., Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh 226010, India; Pandey, D., Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Amity University, Lucknow, Uttar Pradesh 226010, India; Bhardwaj, S., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Thapar University, Patiala, Punjab 147001, India	Smart Innovation, Systems and Technologies	2021	21903018
4740	Optimizing bidders selection of multi-round procurement problem in software project management using parallel max-min ant system algorithm	Le D.-N., Nguyen G.N., Garg H., Huynh Q.-T., Bao T.N., Tuan N.N.	Le, D.-N., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Haiphong University, Haiphong, 180000, Viet Nam; Nguyen, G.N., Faculty of Information Technology, Duy Tan University, Da Nang, 550000, Viet Nam, Graduate School, Duy Tan University, Da Nang, 550000, Viet Nam; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Huynh, Q.-T., Hanoi University of Science and Technology, Hanoi, 100000, Viet Nam; Bao, T.N., Hanoi University, Hanoi, 100000, Viet Nam; Tuan, N.N., Department of ICT, Ministry of Education and Training, Hanoi, 100000, Viet Nam	Computers, Materials and Continua	2021	15462218
4741	FP-MMR: A Framework for the Preprocessing of Multimodal MR Images	Kaur A., Kaur L., Singh A.	Kaur, A., Department of Computer Science and Engineering, University College of Engineering, Punjabi University, Patiala, Punjab 147001, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Kaur, L., Department of Computer Science and Engineering, University College of Engineering, Punjabi University, Patiala, Punjab 147001, India; Singh, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	Smart Innovation, Systems and Technologies	2021	21903018
4742	Effect of imidazolium based ionic liquids on CO-association dynamics and thermodynamic stability of Ferrocycochrome c	Garg M., Kumar S., Kaur A., Goyal B., Kumar R.	Garg, M., Department of Chemistry, Central University of Punjab, Bathinda, 151001, India; Kumar, S., Department of Biochemistry, University of Montreal, Montreal, QC H3C 3J7, Canada; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Department of Chemistry, Central University of Punjab, Bathinda, 151001, India	Biophysical Chemistry	2021	3014622
4743	Ofloxacin adsorptive interaction with rice husk ash: Parametric and exhausted adsorbent disposability study	Kaur G., Singh N., Rajor A.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Contaminant Hydrology	2021	1697722

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4744	A systematic review of machine learning algorithms for prognostics and health management of rolling element bearings: fundamentals, concepts and applications	Singh J., Azamfar M., Li F., Lee J.	Singh, J., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Azamfar, M., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States; Li, F., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States; Lee, J., NSF Industry/University Cooperative Research Center on Intelligent Maintenance Systems (IMS), University of Cincinnati, Cincinnati, OH 45221-0072, United States	Measurement Science and Technology	2021	9570233
4745	Influence of plasticizer (triphenyl phosphate) loading on drying of binary coatings: Poly(styrene)-p-xylene coatings	Arya R.K., Kaur H., Rawat M., Sharma J., Chandra A., Ahuja S.	Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Kaur, H., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, Punjab 147004, India	Progress in Organic Coatings	2021	3009440
4746	Performance of automated machine for different profiles in two-dimensional welding	Kumar V., Bera T.K.	Kumar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Materials and Manufacturing Processes	2021	10426914
4747	Multi-metal tolerance of DHHC palmitoyl transferase-like protein isolated from metal contaminated soil	Mukherjee A., Thakur B., Pandey A.K., Marmeisse R., Fraissinet-Tachet L., Reddy M.S.	Mukherjee, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Thakur, B., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, A.K., National Agri-Food Biotechnology Institute, Sector-81, Knowledge city, Mohali, Punjab 140306, India; Marmeisse, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Fraissinet-Tachet, L., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon 1 Université de Lyon, Villeurbanne, F-69622, France; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Ecotoxicology	2021	9639292
4748	Simulation functions and geraghty type results	Chandok S., Chanda A., Dey L.K., Pavlović M., Radenović S.	Chandok, S., School of Mathematics, Thapar University, Patiala, India; Chanda, A., Department of Mathematics, National Institute of Technology, Durgapur, India; Dey, L.K., Department of Mathematics, National Institute of Technology, Durgapur, India; Pavlović, M., Faculty of Sciences, Department of Mathematics, University of Kragujevac, Kragujevac, Serbia; Radenović, S., Faculty of Mechanical Engineering, University of Belgrade, Serbia	Boletim da Sociedade Paranaense de Matematica	2021	378712
4749	Surface Morphology and Metallurgical Studies on Gas-Assisted Laser Beam Hybrid Micromachined Steel	Singh S., Matta S.B., Ravi Sankar M.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Matta, S.B., Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, 781039, India; Ravi Sankar, M., Department of Mechanical Engineering, Indian Institute of Technology Tirupati, Tirupati, 517506, India	Lecture Notes in Mechanical Engineering	2021	21954356
4750	Topic modeling combined with classification technique for extractive multi-document text summarization	Roul R.K.	Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Soft Computing	2021	14327643
4751	Response of a Layered Composite Beam Subjected to Static Loading Using Point Interpolation Meshless Technique	Shah K.S., Gadade A.M., Sangsiri S.M.	Shah, K.S., Mechanical Engineering, Army Institute of Technology, Pune, 411015, India; Gadade, A.M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sangsiri, S.M., Mechanical Engineering, Army Institute of Technology, Pune, 411015, India	Lecture Notes in Mechanical Engineering	2021	21954356
4752	Bond Graph Based Modelling of Four-Cylinder In-Line Engine and Study of the Various Engine Characteristics Parameters	Singh R., Singh J., Bera T.K.	Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Lecture Notes in Mechanical Engineering	2021	21954356
4753	Dynamic Behaviour of Laminated Composite Beam Undergoing Moving Loads	Saxena L.B., Gadade A.M., Sangsiri S.M.	Saxena, L.B., Mechanical Engineering, Army Institute of Technology, Pune, 411015, India; Gadade, A.M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sangsiri, S.M., Mechanical Engineering, Army Institute of Technology, Pune, 411015, India	Lecture Notes in Mechanical Engineering	2021	21954356
4754	A new possibility degree measure for interval-valued q-rung orthopair fuzzy sets in decision-making	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India	International Journal of Intelligent Systems	2021	8848173
4755	832.5 Gb/s PM-8QAM Superchannel with 5 b/s/Hz Spectral Efficiency	Sharma D., Devi S., Prajapati Y.K.	Sharma, D., ECED, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Devi, S., ECED, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh, India; Prajapati, Y.K., ECED, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh, India	Lecture Notes in Electrical Engineering	2021	18761100

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4756	Potassium and 12-tungstophosphoric acid loaded alumina as heterogeneous catalyst for the esterification as well as transesterification of waste cooking oil in a single pot	Singh H., Ali A.	Singh, H., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Asia-Pacific Journal of Chemical Engineering	2021	19322135
4757	Explicit Exact Solutions and Conservation Laws of Generalized Seventh-Order KdV Equation with Time-Dependent Coefficients	Kaur B., Gupta R.K.	Kaur, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Gupta, R.K., Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana 123031, India	Advances in Intelligent Systems and Computing	2021	21945357
4758	Exact Series Solutions and Conservation Laws of Time Fractional Three Coupled KdV System	Singla K., Gupta R.K.	Singla, K., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India, Department of Mathematics, Chandigarh University, Gharuan-Mohali, Punjab 140413, India; Gupta, R.K., Department of Mathematics and Statistics, Central University of Punjab, Bathinda, Punjab 151001, India, Department of Mathematics, School of Physical and Mathematical Sciences, Central University of Haryana, Mahendergarh, Haryana, India	Advances in Intelligent Systems and Computing	2021	21945357
4759	Pre-operative Assessment of Ablation Margins for Variable Blood Perfusion Metrics in a Magnetic Resonance Imaging Based Complex Breast Tumour Anatomy: Simulation Paradigms in Thermal Therapies	Singh M., Singh T., Soni S.	Singh, M., Department of Mechanical Engineering, University of Maryland Baltimore County, Baltimore, MD, United States, Biomedical Instrumentation Division, CSIR-Central Scientific Instruments Organisation, Chandigarh, India, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology University, Patiala, Punjab, India; Singh, T., Department of Radio-diagnosis and Imaging, Post Graduate Institute of Medical Education and Research, Chandigarh, India; Soni, S., Biomedical Instrumentation Division, CSIR-Central Scientific Instruments Organisation, Chandigarh, India	Computer Methods and Programs in Biomedicine	2021	1692607
4760	Improving Spoofed Website Detection Using Machine Learning	Gandotra E., Gupta D.	Gandotra, E., Department of Computer Science Engineering and Information Technology, Jaypee University of Information Technology, Waknaghat, Solan, India; Gupta, D., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Cybernetics and Systems	2021	1969722
4761	Transportation system☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4762	Voting system☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4763	Smart grid☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4764	Optimized Z-Buffer Using Divide and Conquer	Bakshi N., Shivani S., Tiwari S., Khurana M.	Bakshi, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Shivani, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Tiwari, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Khurana, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Advances in Intelligent Systems and Computing	2021	21945357
4765	A Novel Approach of Gearbox Fault Diagnosis by Using Time Synchronous Averaging and J48 Algorithm	Mukherjee S., Kaushal R., Kumar V., Sarangi S.	Mukherjee, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaushal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kumar, V., Mechanical Engineering Department, Indian Institute of Technology, Patna, Bihar 801103, India; Sarangi, S., Mechanical Engineering Department, Indian Institute of Technology, Patna, Bihar 801103, India	Lecture Notes in Mechanical Engineering	2021	21954356
4766	Effects of process parameters on surface roughness, dimensional accuracy and printing time in 3d printing	Jain R., Nauriyal S., Gupta V., Khas K.S.	Jain, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nauriyal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khas, K.S., Product and Industrial Design Department, Lovely Professional University, Phagwara, India	Lecture Notes in Mechanical Engineering	2021	21954356
4767	Investigation of kerf characteristics using abrasive water jet cutting of floor tile: A preliminary study	Chand R., Gupta V., Batra N.K., Garg M.P.	Chand, R., Mechanical Engineering Department, Maharishi Markandeshwar Deemed To Be University, Ambala, Mullana, Haryana, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Batra, N.K., Mechanical Engineering Department, Maharishi Markandeshwar Deemed To Be University, Ambala, Mullana, Haryana, India; Garg, M.P., Mechanical Engineering Department, DAV University, Jalandhar, India	Lecture Notes in Mechanical Engineering	2021	21954356
4768	Noise Density Range Sensitive Mean-Median Filter for Impulse Noise Removal	Sohi P.J.S., Sharma N., Garg B., Arya K.V.	Sohi, P.J.S., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Sharma, N., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India; Arya, K.V., ABV-Indian Institute of Information Technology and Management, Gwalior, 474015, India	Advances in Intelligent Systems and Computing	2021	21945357

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4769	Influence of cutting force and drilling temperature on glass hole surface integrity during rotary ultrasonic drilling	Sharma A., Babbar A., Jain V., Gupta D.	Sharma, A., Chitkara College of Applied Engineering, Chitkara University, Rajpura, Punjab, India; Babbar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Mechanical Engineering	2021	21954356
4770	Studies different structure of atmospheric boundary layer using monostatic sodar	Kumar N., Soni K., Agarwal R., Singh M.	Kumar, N., Thapar University, Patiala, 147004, India; Soni, K., CSIR-National Physical Laboratory, New Delhi, 110012, India; Agarwal, R., Thapar University, Patiala, 147004, India; Singh, M., CSIR-National Physical Laboratory, New Delhi, 110012, India	Lecture Notes in Mechanical Engineering	2021	21954356
4771	Optimizing gas injection stir casting process parameters for improving the ultimate tensile strength of hybrid mg/(sipc + Al2O3p + Grp) Through Taguchi Technique	Hira J., Manna A., Kumar P., Singla R.	Hira, J., Mechanical Engineering Department, Amity University, Noida, Uttar Pradesh, India; Manna, A., Mechanical Engineering Department, PEC University of Technology Chandigarh, Chandigarh, India; Kumar, P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singla, R., Mechanical Engineering Department, Amity University, Noida, Uttar Pradesh, India	Lecture Notes in Mechanical Engineering	2021	21954356
4772	Computed Tomography Image Reconstruction Using Fuzzy Complex Diffusion Regularization	Devi M., Singh S., Tiwari S.	Devi, M., Deenbandhu Chhotu Ram University of Science and Technology, Murthal, 131039, India; Singh, S., Deenbandhu Chhotu Ram University of Science and Technology, Murthal, 131039, India; Tiwari, S., Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India	Advances in Intelligent Systems and Computing	2021	21945357
4773	A novel task scheduling model for fog computing	Kaur N., Kumar A., Kumar R.	Kaur, N., Chitkara University Institute of Engineering and Technology, Chitkara University, Patiala, Punjab, India; Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Patiala, Punjab, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2021	23673370
4774	Blockchain components and concepts☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4775	Blockchain 2.0: Smart contracts☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4776	Blockchain for enterprise☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4777	Attacks on blockchain☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4778	Healthcare system☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4779	Financial system☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4780	Hashes☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4781	Cryptocurrencies☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4782	Cryptographic consensus mechanisms☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4783	Basics of blockchain☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4784	Hyperledger☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4785	Core components of blockchain☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4786	History of blockchain-Blockchain 1.0: Currency☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4787	Signature primitives☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4788	Data structures☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4789	Architecture of blockchain☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4790	Phases of operation☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4791	Accumulators☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4792	Digital signatures☆	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Advances in Computers	2021	652458
4793	A 2D logistic map and Lorenz-Rosler chaotic system based RGB image encryption approach	Kumar V., Girdhar A.	Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Girdhar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
4794	Fractional derivative based Unsharp masking approach for enhancement of digital images	Kaur K., Jindal N., Singh K.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
4795	Copy move and splicing forgery detection using deep convolution neural network, and semantic segmentation	Abhishek, Jindal N.	Abhishek, Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2021	13807501
4796	Transparent photovoltaic cells and self-powered photodetectors by TiO ₂ /NiO heterojunction	Nguyen T.T., Patel M., Kim S., Mir R.A., Yi J., Dao V.-A., Kim J.	Nguyen, T.T., Photoelectric and Energy Device Application Lab (PEDAL), Multidisciplinary Core Institute for Future Energies (MCIFE) and Department of Electrical Engineering, Incheon National University, 119, Academy Road Yeonsu, Incheon, 22012, South Korea; Patel, M., Photoelectric and Energy Device Application Lab (PEDAL), Multidisciplinary Core Institute for Future Energies (MCIFE) and Department of Electrical Engineering, Incheon National University, 119, Academy Road Yeonsu, Incheon, 22012, South Korea; Kim, S., Photoelectric and Energy Device Application Lab (PEDAL), Multidisciplinary Core Institute for Future Energies (MCIFE) and Department of Electrical Engineering, Incheon National University, 119, Academy Road Yeonsu, Incheon, 22012, South Korea; Mir, R.A., Functional Materials Lab, SPMS, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Yi, J., College of Information and Communication Engineering, Sungkyunkwan University, Suwon, 16419, South Korea; Dao, V.-A., FM&D Lab., Institute of Fundamental and Applied Sciences, Duy Tan University, Ho Chi Minh City, 700000, Viet Nam, Faculty of Electrical-Electronic Engineering, Duy Tan University, Da Nang, 550000, Viet Nam; Kim, J., Photoelectric and Energy Device Application Lab (PEDAL), Multidisciplinary Core Institute for Future Energies (MCIFE) and Department of Electrical Engineering, Incheon National University, 119, Academy Road Yeonsu, Incheon, 22012, South Korea	Journal of Power Sources	2021	3787753
4797	Holey engineered 2D ZnO-nanosheets architecture for supersensitive ppm level H ₂ gas detection at room temperature	Kumar M., Bhatt V., Kim J., Abhyankar A.C., Chung H.-J., Singh K., Cho Y.B., Yun Y.J., Lim K.S., Yun J.-H.	Kumar, M., Department of Electrical Engineering, Incheon National University, Incheon, 406772, South Korea; Bhatt, V., Department of Electrical Engineering, Incheon National University, Incheon, 406772, South Korea; Kim, J., Department of Electrical Engineering, Incheon National University, Incheon, 406772, South Korea; Abhyankar, A.C., Department of Materials Engineering, Defence Institute of Advanced Technology, Girinagar, Pune, 411025, India; Chung, H.-J., Energy Conversion & Electric Component, Korea Electronics Technology Institute Gyeonggi-do 13509, South Korea; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Cho, Y.B., Department of Electrical Engineering, Incheon National University, Incheon, 406772, South Korea, Materials Evaluation Team, Korea Testing & Research Institute, Gwacheon, Gyeonggi-do 13810, South Korea; Yun, Y.J., Materials Evaluation Team, Korea Testing & Research Institute, Gwacheon, Gyeonggi-do 13810, South Korea; Lim, K.S., Materials Evaluation Team, Korea Testing & Research Institute, Gwacheon, Gyeonggi-do 13810, South Korea; Yun, J.-H., Department of Electrical Engineering, Incheon National University, Incheon, 406772, South Korea	Sensors and Actuators, B: Chemical	2021	9254005
4798	JMD Approach for Solving Unbalanced Fully Generalized Trapezoidal Intuitionistic Fuzzy Transportation Problems	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2021	14349922
4799	JMD Approach for Solving Unbalanced Fully Trapezoidal Intuitionistic Fuzzy Transportation Problems	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2021	14349922
4800	MULTI-CRITERIA DECISION MAKING METHOD BASED ON BONFERRONI MEAN AGGREGATION OPERATORS OF COMPLEX INTUITIONISTIC FUZZY NUMBERS	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University) Patiala-147004, Punjab, India; Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University) Patiala-147004, Punjab, India	Journal of Industrial and Management Optimization	2021	15475816
4801	Appropriate Weighted Averaging Aggregation Operator Under Some Extensions of the Fuzzy Environment	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2021	14349922

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4802	Vaishnavi Approach for Solving Triangular Intuitionistic Transportation Problems of Type-2	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2021	14349922
4803	Mehar Method to Find a Unique Fuzzy Optimal Value of Balanced Fully Triangular Fuzzy Transportation Problems	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2021	14349922
4804	Preface	Mishra A., Kumar A.	Mishra, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Studies in Fuzziness and Soft Computing	2021	14349922
4805	A Pre-processing framework for spectral classification of hyperspectral images	Singh S., Kasana S.S.	Singh, S., Department of Computer Science and Engineering, Bennett University, Greater Noida, Uttar Pradesh, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, Punjab, India	Multimedia Tools and Applications	2021	13807501
4806	A methodology for even-power-distribution within single time-blocks of power-frequency in CHB MLIs for PV systems	Bhatnagar P., Dewangan N.K., Singh N., Gupta K.K.	Bhatnagar, P., IES College of Technology, Bhopal, India; Dewangan, N.K., Department of Electronics and Communication Engineering, G H Raisoni Institute of Engineering and Technology, Nagpur, India; Singh, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Transactions on Electrical Energy Systems	2021	20507038
4807	Spiral-Inspired Spotted Hyena Optimizer and Its Application to Constraint Engineering Problems	Kumar V., Kaleka K.K., Kaur A.	Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Kaleka, K.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Wireless Personal Communications	2021	9296212
4808	Algorithms for complex interval-valued q-rung orthopair fuzzy sets in decision making based on aggregation operators, AHP, and TOPSIS	Garg H., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, Punjab, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan	Expert Systems	2021	2664720
4809	A Novel Framework for Distributed Stream Processing and Analysis of Twitter Data	Arora S., Rani R.	Arora, S., Department of Computer Science and Technology, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Technology, Thapar Institute of Engineering and Technology, Patiala, India	Advances in Intelligent Systems and Computing	2021	21945357
4810	Kinetic and thermodynamic study of thionine dye adsorption by peanut hull	Saini A., Barman S., Datta D., Sharma K., Kumar K., Goyal N.	Saini, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Datta, D., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India; Sharma, K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goyal, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Indian Chemical Engineer	2021	194506
4811	Trust-aware energy-efficient stable clustering approach using fuzzy type-2 Cuckoo search optimization algorithm for wireless sensor networks	Mittal N., Singh S., Singh U., Salgotra R.	Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, S., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, Punjab 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab 147004, India	Wireless Networks	2021	10220038
4812	Self-adaptive salp swarm algorithm for engineering optimization problems	Salgotra R., Singh U., Singh S., Singh G., Mittal N.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, G., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Mittal, N., Department of ECE, Chandigarh University, Mohali, India	Applied Mathematical Modelling	2021	0307904X
4813	A novel approach for ranking web documents based on query-optimized personalized pagerank	Roul R.K., Sahoo J.K.	Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Sahoo, J.K., Department of Mathematics, BITS, Pilani-K.K.Birla Goa Campus, Goa, 403726, India	International Journal of Data Science and Analytics	2021	2364415X
4814	Monostatic radar-based microwave imaging of breast tumor detection using a compact cubical dielectric resonator antenna	Kaur G., Kaur A.	Kaur, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Microwave and Optical Technology Letters	2021	8952477

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4815	Performance analysis of dcw-based improved tcp variant for safety message broadcast in vanets	Verma P., Singh S.P., Singh N.	Verma, P., Thapar Institute of Engineering & Technology, Patiala, India; Singh, S.P., Gautam Buddha University, Greater Noida, India; Singh, N., Gautam Buddha University, Greater Noida, India	Lecture Notes in Electrical Engineering	2021	18761100
4816	An approach for circuit modeling of a multiband resonators based planar metamaterial absorber	Agarwal M., Meshram M.K.	Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Meshram, M.K., Department of Electronics Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, Uttar Pradesh, India	Microwave and Optical Technology Letters	2021	8952477
4817	Pythagorean fuzzy interactive Hamacher power aggregation operators for assessment of express service quality with entropy weight	Wang L., Garg H., Li N.	Wang, L., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Li, N., Department of Basic Teaching, Liaoning Technical University, Huludao, 125105, China	Soft Computing	2021	14327643
4818	MR Image Synthesis Using Generative Adversarial Networks for Parkinson's Disease Classification	Kaur S., Aggarwal H., Rani R.	Kaur, S., Department of Computer Engineering, Punjabi University, Patiala, 147002, India; Aggarwal, H., Department of Computer Engineering, Punjabi University, Patiala, 147002, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Advances in Intelligent Systems and Computing	2021	21945357
4819	Effect of Drilling Techniques on Microcracks and Pull-Out Strength of Cortical Screw Fixed in Human Tibia: An In-Vitro Study	Singh R.P., Gupta V., Pandey P.M., Mridha A.R.	Singh, R.P., Department of Mechanical Engineering, Indian Institute of Technology, Delhi, New Delhi, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, P.M., Department of Mechanical Engineering, Indian Institute of Technology, Delhi, New Delhi, India; Mridha, A.R., Department of Pathology, All India Institute of Medical Sciences, New Delhi, India	Annals of Biomedical Engineering	2021	906964
4820	Interval Valued Spherical Fuzzy Aggregation Operators and Their Application in Decision Making Problem	Lathamaheswari M., Nagarajan D., Garg H., Kavikumar J.	Lathamaheswari, M., Department of Mathematics, Hindustan Institute of Technology & Science, Chennai, 603103, India; Nagarajan, D., Department of Mathematics, Hindustan Institute of Technology & Science, Chennai, 603103, India; Garg, H., School of Mathematics, Thapar University Patiala, Patiala, India; Kavikumar, J., Department of Mathematics and Statistics, Faculty of Applied Science and Technology, Universiti Tun Hussein Onn, Johor, Malaysia	Studies in Fuzziness and Soft Computing	2021	14349922
4821	On investigation of dimensional deviation for hybrid composite matrix of PLA	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Mechanical Engineering Department, TIET, Patiala, India, Mechanical Engineering Department, GNDEC, Ludhiana, India; Singh, R., Mechanical Engineering Department, TIET, Patiala, India, Mechanical Engineering Department, GNDEC, Ludhiana, India; Singh, T.P., Mechanical Engineering Department, TIET, Patiala, India, Mechanical Engineering Department, GNDEC, Ludhiana, India; Batish, A., Mechanical Engineering Department, TIET, Patiala, India, Mechanical Engineering Department, GNDEC, Ludhiana, India	Lecture Notes in Mechanical Engineering	2021	21954356
4822	Advancements in multi-scale filler reinforced epoxy nanocomposites for improved impact strength: A review	Nanda T., Singh K., Shelly D., Mehta R.	Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Department of Mechanical Engineering, Chandigarh Engineering College, Landran, India; Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, Virginia Tech-TIET Center of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India	Critical Reviews in Solid State and Materials Sciences	2021	10408436
4823	Reconfigurable Carry Look-Ahead Adder Trading Accuracy for Energy Efficiency	Garg B., Patel S.K.	Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Patel, S.K., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Signal Processing Systems	2021	19398018
4824	CoMHisP: A Novel Feature Extractor for Histopathological Image Classification Based on Fuzzy SVM with Within-Class Relative Density	Kumar A., Singh S.K., Saxena S., Singh A.K., Shrivastava S., Lakshmanan K., Kumar N., Singh R.K.	Kumar, A., Department of Computer Science and Engineering, Indian Institute of Technology, BHU, Varanasi, India; Singh, S.K., Department of Computer Science and Engineering, Indian Institute of Technology, BHU, Varanasi, India; Saxena, S., Division of Veterinary Biotechnology, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, India; Singh, A.K., Department of Computer Science and Engineering, NIT Patna, Patna, India; Shrivastava, S., Division of Veterinary Biotechnology, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, India; Lakshmanan, K., Department of Computer Science and Engineering, Indian Institute of Technology, BHU, Varanasi, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Singh, R.K., Division of Veterinary Biotechnology, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, India	IEEE Transactions on Fuzzy Systems	2021	10636706
4825	An ensemble data frequency prediction based framework for fast processing using hybrid cache optimization	Arora S., Bala A.	Arora, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Bala, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
4826	Advance computer analysis of magnetic resonance imaging (MRI) for early brain tumor detection	Mittal N., Tayal S.	Mittal, N., Amity Institute of Information Technology, Amity University Uttar Pradesh, Noida, India; Tayal, S., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Neuroscience	2021	207454

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4827	In-silico homology assisted identification of inhibitor of RNA binding against 2019-nCoV N-protein (N terminal domain)	Sarma P., Shekhar N., Prajapat M., Avti P., Kaur H., Kumar S., Singh S., Kumar H., Prakash A., Dhibar D.P., Medhi B.	Sarma, P., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Shekhar, N., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Prajapat, M., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Avti, P., Department of Biophysics, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Kaur, H., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Kumar, S., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Singh, S., Biomedical Informatics Centre, Postgraduate Institute of Medical Education and Research, Chandigarh, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, H., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Prakash, A., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Dhibar, D.P., Internal Medicine, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Medhi, B., Department of Pharmacology, Postgraduate Institute of Medical Education and Research, Chandigarh, India	Journal of Biomolecular Structure and Dynamics	2021	7391102
4828	Comparative post-yield performance evaluation of flexure member with corroded reinforcement	Yadav D., Kwatra N., Agarwal P.	Yadav, D., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, P., Department of Earthquake Engineering, IIT Roorkee, Roorkee, India	Structure and Infrastructure Engineering	2021	15732479
4829	An investigation into pressure drop through bends in pneumatic conveying systems	Sharma A., Mallick S.S.	Sharma, A., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mallick, S.S., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Particulate Science and Technology	2021	2726351
4830	Microstructural and viscous liquid loading effects on the propagation of love waves in a piezomagnetic layered structure	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Mechanics of Advanced Materials and Structures	2021	15376494
4831	An evaluation of testing and modeling procedure for solids friction factor for fluidized dense-phase pneumatic conveying of fine powders	Sharma K., Mallick S.S., Mittal A.	Sharma, K., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mallick, S.S., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mittal, A., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Particulate Science and Technology	2021	2726351
4832	ESA: a hybrid bio-inspired metaheuristic optimization approach for engineering problems	Dhiman G.	Dhiman, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, Department of Computer Science, Government Bikram College of Commerce, Patiala, Punjab 147004, India	Engineering with Computers	2021	1770667
4833	Combined impact of varying biogas mass flow rate and rice bran methyl esters blended with diesel on a dual-fuel engine	Goga G., Chauhan B.S., Mahla S.K., Dhir A., Cho H.M.	Goga, G., School of Mechanical Engineering, Lovely Professional University, Phagwara, India; Chauhan, B.S., School of Mechanical Engineering, Lovely Professional University, Phagwara, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, India; Dhir, A., School of Energy Environment, Thapar Institute of Engineering Technology, Patiala, India; Cho, H.M., Department of Mechanical Engineering, Kongju National University, Gongju, South Korea	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2021	15567036
4834	Prediction of discharge in converging and diverging compound channel by gene expression programming	Das B.S., Devi K., Khatua K.K.	Das, B.S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Devi, K., Civil Engineering Department, Aurora's Scientific Technological Research Academy, Hyderabad, India; Khatua, K.K., Civil Engineering Department, National Institute of Technology, Rourkela, India	ISH Journal of Hydraulic Engineering	2021	9715010
4835	MVO Algorithm Based LFC Design of a Six-Area Hybrid Diverse Power System Integrating IPFC and RFB	Sharma M., Bansal R.K., Prakash S., Asefi S.	Sharma, M., Department of Electrical Engineering, Guru Kashi University, Bathinda, Punjab, India; Bansal, R.K., Department of Electrical Engineering, Guru Kashi University, Bathinda, Punjab, India; Prakash, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Asefi, S., Young Researchers Club and Elite, Sardasht Branch, Islamic Azad University, Sardasht, Iran, Young Researchers Club and Elite, Urmia Branch, Islamic Azad University, Urmia, Iran	IETE Journal of Research	2021	3772063
4836	SANSUNL: A Sanskrit to UNL Converter System	Sitender, Bawa S.	Sitender, Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Bawa, S., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	IETE Journal of Research	2021	3772063
4837	Simulation and optimization of coal-water slurry suspension flow through 90° pipe bend using CFD	Singh J.P., Kumar S., Mohapatra S.K.	Singh, J.P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	International Journal of Coal Preparation and Utilization	2021	19392699

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4838	Improved Slurryability and Rheological Characteristics of High Ash Indian Coal by Hydrothermal Treatment	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, S., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Coal Preparation and Utilization	2021	19392699
4839	Performance evaluation of modified color image steganography using discrete wavelet transform	Kumar V., Kumar D.	Kumar, V., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India; Kumar, D., Department of Computer Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India	Journal of Intelligent Systems	2021	3341860
4840	Selective laser melting of CoCr alloys in biomedical application: A review	Saini J.S., Dowling L., Trimble D., Singh S.	Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Dowling, L., Department of Mechanical and Manufacturing Engineering, Trinity College, The University of Dublin, Dublin-2, Ireland; Trimble, D., Department of Mechanical and Manufacturing Engineering, Trinity College, The University of Dublin, Dublin-2, Ireland; Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Radiation Technologies and Applications in Materials Science	2022	
4841	Efficient ZnCr LDH/monoclinic-WO3 composites for Degradation of Tetracycline under Visible Light	Jemini, Singh S., Pal B.	Jemini, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ChemistrySelect	2022	23656549
4842	Additive manufacturing in industry 4.0: Methods, techniques, modeling, and nano aspects	Sharma V.K., Kumar A., Gupta M., Kumar V., Sharma D.K., Sharma S.K.	Sharma, V.K., Department of Mechanical Engineering, IIMT University, Meerut, Uttar Pradesh, India; Kumar, A., Department of Mechanical Engineering, Technical Education Department, Uttar Pradesh (Under Government of Uttar Pradesh) Kanpur, India; Gupta, M.; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (deemed to be University), Patiala (Punjab), 147004, India; Sharma, D.K., IIMT University Meerut, India; Sharma, S.K., Department of Mechanical Engineering, KIET Group of Institute, Delhi- NCR, Ghaziabad, India	Additive Manufacturing in Industry 4.0: Methods, Techniques, Modeling, and Nano Aspects	2022	
4843	Study of mechanical and microstructural properties of titanium chips fabricated by large strain machining process	Sharma D., Arora K., Kumar V., Sharma V.K.	Sharma, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, V.K., Department of Mechanical Engineering, IIMT University, Meerut Uttar Pradesh, India	Additive Manufacturing in Industry 4.0: Methods, Techniques, Modeling, and Nano Aspects	2022	
4844	Effect of REOs on tribological behavior of aluminum hybrid composites using ANN	Sharma V.K., Kumar V., Joshi R.S., Kumar A.	Sharma, V.K., Department of Mechanical Engineering, IIMT University, Meerut Uttar Pradesh, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (deemed to be University), Patiala (Punjab), 147004, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (deemed to be University), Patiala (Punjab), 147004, India; Kumar, A., Department of Mechanical Engineering, Technical Education Department, Uttar Pradesh (Under Government of Uttar Pradesh) Kanpur, India	Additive Manufacturing in Industry 4.0: Methods, Techniques, Modeling, and Nano Aspects	2022	
4845	RSM-based surface and subsurface characterization analysis of bioimplant material	Kumar A., Kumar V., Sharma R., Kumar J.	Kumar, A., Department of Mechanical Engineering, Maharishi Markendeshwar (deemed to be University) Mullana- Ambala-133207 (Haryana), India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (deemed to be University), Patiala (Punjab), 147004, India; Sharma, R., Department of Physics, Maharishi Markendeshwar (deemed to be University) Mullana-Ambala-133207 (Haryana), India; Kumar, J., Department of Mechanical Engineering, National Institute of Technology, Kurukshetra (Haryana), 136119, India	Additive Manufacturing in Industry 4.0: Methods, Techniques, Modeling, and Nano Aspects	2022	
4846	The use of waste marble for cleaner production of structural concrete: A comprehensive experimental study	Gencel O., Nodehi M., Yavuz Bayraktar O., Kaplan G., Benli A., Koksak F., Bilir T., Siddique R., Ozbakkaloglu T.	Gencel, O., Civil Engineering Department, Bartin University, Bartin, 74100, Turkey; Nodehi, M., Ingram School of Engineering, Texas State University, San Marcos, TX 78666, United States; Yavuz Bayraktar, O., Civil Engineering Department, Kastamonu University, Kastamonu, 37150, Turkey; Kaplan, G., Civil Engineering Department, Ataturk University, Erzurum, 25030, Turkey; Benli, A., Civil Engineering Department, Bingol University, Bingol, 12100, Turkey; Koksak, F., Civil Engineering Department, Yozgat Bozok University, Yozgat, 66900, Turkey; Bilir, T., Civil Engineering Department, Istanbul University-Cerrahpaşa, Istanbul, 34320, Turkey; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ozbakkaloglu, T., Ingram School of Engineering, Texas State University, San Marcos, TX 78666, United States	Construction and Building Materials	2022	9500618
4847	OCTRA-5G: Osmotic computing based task scheduling and resource allocation framework for 5G	Kaur A., Kumar R., Saxena S.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saxena, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
4848	An interval type-2 fuzzy ontological model: Predicting water quality from sensory data	Hooda D., Rani R.	Hooda, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4849	Pharmaceutical drugs expiry date tracking: A visionary approach	Goyal P., Goyal N., Singh P., Mittal N., Jindal N., Kaur K.	Goyal, P., ECED, TIET, Punjab, Patiala, India; Goyal, N., ECED, TIET, Punjab, Patiala, India; Singh, P., ECED, TIET, Punjab, Patiala, India; Mittal, N., ECED, TIET, Punjab, Patiala, India; Jindal, N., ECED, TIET, Punjab, Patiala, India; Kaur, K., ECED, TIET, Punjab, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
4850	One-Pot Cascade Access to Ru(II)-Catalyzed Regioselective C(sp ²)-H Activation/Alkenylation of Chromeno[4,3- c]pyrazol-4-ones and Their Emission Solvatochromic Studies	Singla D., Paul K.	Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Organic Chemistry	2022	223263
4851	A Novel Piezoelectric and Electromagnetic Energy Harvester as a High-Pass Filter With a Low Cutoff Frequency	Kumar A., Jaiswal A., Joshi R.S., Singh J.	Kumar, A., Indian Institute of Information Technology Allahabad, Department of Information Technology, Prayagraj, 211015, India; Jaiswal, A., Indian Institute of Information Technology Allahabad, Department of Information Technology, Prayagraj, 211015, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Department of Mechanical Engineering, Punjab, Patiala, 147004, India; Singh, J., Indian Institute of Technology Ropar, Department of Computer Science and Engineering, Rupnagar, 140001, India	IEEE Sensors Journal	2022	1530437X
4852	Block-CPS: Blockchain and Non-Cooperative Game-Based Data Pricing Scheme for Car Sharing	Kakkar R., Gupta R., Dahman Alshehri M., Tanwar S., Dua A., Kumar N.	Kakkar, R., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, 382481, India; Gupta, R., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, 382481, India; Dahman Alshehri, M., Taif University, College of Computers and Information Technology, Department of Computer Science, Taif, 21944, Saudi Arabia; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, 382481, India; Dua, A., Birla Institute of Technology and Science Pilani, Department of Computer Science and Information Systems, Pilani, 333031, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Department of Computer Science and Engineering, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computing, Dehradun, 248007, India	IEEE Internet of Things Journal	2022	23274662
4853	An intelligent energy efficient handover mechanism with adaptive discontinuous reception in next generation telecommunication networks	Goyal T., Kaushal S.	Goyal, T., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaushal, S., Computer Science and Engineering, UIET, Panjab University Chandigarh, India	Expert Systems with Applications	2022	9574174
4854	KEST: A graph-based keyphrase extraction technique for tweets summarization using Markov Decision Process	Garg M., Kumar M.	Garg, M., Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kumar, M., University Institute of Engineering & Technology, Panjab University, Chandigarh, 160014, India	Expert Systems with Applications	2022	9574174
4855	On the structural, dielectric, piezoelectric, and energy storage behavior of polyvinylidene fluoride (PVDF) thick film: Role of annealing temperature	Jaglan N., Uniyal P.	Jaglan, N., Smart Materials Laboratory, School of Physics and Materials Science, Thapar University, Punjab, Patiala, 147004, India; Uniyal, P., Smart Materials Laboratory, School of Physics and Materials Science, Thapar University, Punjab, Patiala, 147004, India	Journal of Applied Physics	2022	218979
4856	Neuromarketing for redesigning the future of online education	Garg A., Garg A.	Garg, A., Thapar Institute of Engineering and Technology, India; Garg, A., Cuelearn Pvt. Ltd., Bangalore, India	Promoting Consumer Engagement Through Emotional Branding and Sensory Marketing	2022	
4857	Causal Categorization of Mental Health Posts using Transformers	Kaur S., Bhardwaj R., Jain A., Garg M., Saxena C.	Kaur, S.; Bhardwaj, R., Thapar Institute of Engineering and Technology, Punjab, India; Jain, A., Thapar Institute of Engineering and Technology, Punjab, India; Garg, M., Thapar Institute of Engineering and Technology, Punjab, India; Saxena, C., The Chinese University of Hong Kong, Hong Kong	ACM International Conference Proceeding Series	2022	
4858	Frequency selective surfaces (FSS) for S and X band shielding in electromagnetic applications	Kaur K., Kaur A.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2022	0094243X
4859	Reduced Order Modelling and Control of Induction Motor with Chaos-Based Gorilla Troop Optimizers (CBGTO)	Ganguli S.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Advances in Transdisciplinary Engineering	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4860	A 'double locked' ratiometric fluorescent probe for detection of cysteine in a viscous system and its application in cancer cells	Samanta S.K., Maiti K., Halder S., Guria U.N., Mandal D., Jana K., Mahapatra A.K.	Samanta, S.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Maiti, K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Halder, S., Division of Molecular Medicine, Bose Institute, P 1/12, CIT Scheme VIII, Kolkata, 700054, India; Guria, U.N., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jana, K., Division of Molecular Medicine, Bose Institute, P 1/12, CIT Scheme VIII, Kolkata, 700054, India; Mahapatra, A.K., Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, 711103, India	Organic and Biomolecular Chemistry	2022	14770520
4861	Experimental and Theoretical Study for Proton Transfer of Aggregated-Induced Emission Active Fluorescent Schiff Bases	Bansal R., Kumar G., Luxami V.	Bansal, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India, Department of Chemistry, M. M. Engineering College, Maharishi Markandeshwar University, Mullana, 133207, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	ChemistrySelect	2022	23656549
4862	Spectral graph theory-based virtual network embedding for vehicular fog computing: A deep reinforcement learning architecture	Chen N., Zhang P., Kumar N., Hsu C.-H., Abualigah L., Zhu H.	Chen, N., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102 2801, Lebanon; Hsu, C.-H., Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Medical Research, China Medical University Hospital, China Medical University, Taichung, 40402, Taiwan, Guangdong-Hong Kong-Macao Joint Laboratory for Intelligent Micro-Nano Optoelectronic Technology, School of Mathematics and Big Data, Foshan University, Foshan, 528000, China; Abualigah, L., Hourani Center for Applied Scientific Research, Al-Ahliyya Amman University, Amman, 19328, Jordan, Faculty of Information Technology, Middle East University, Amman, 11831, Jordan; Zhu, H., State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, 100876, China	Knowledge-Based Systems	2022	9507051
4863	Facile single step synthesis of Cu ₂ ZnSnS ₄ thin films by sputtering from a single target and their electrical characterization	Pandey K., Mohanty B.C.	Pandey, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2022	9258388
4864	High Voltage Gain Bidirectional DC-DC Converters for Supercapacitor Assisted Electric Vehicles: A Review	Singh A.K., Mishra A.K., Gupta K.K., Siwakoti Y.P.	Singh, A.K., Netaji Subhas University of Technology, Department of Electrical Engineering, Delhi, 110078, India; Mishra, A.K., India Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, 147001, India; Gupta, K.K., India Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, 147001, India; Siwakoti, Y.P., School of Electrical and Data Engineering, University of Technology Sydney, Sydney, NSW 2007, Australia	CPSS Transactions on Power Electronics and Applications	2022	2475742X
4865	(n + t)-color analogue of Gordon s theorem	Rana M., Sharma S.	Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Sharma, S., Yadavindra Department of Sciences, Punjabi University, Guru Kashi Campus, Damdama Sahib, Talwandi Sabo, Punjab151 302, India	Journal of the Ramanujan Mathematical Society	2022	9701249
4866	One Pot Esterification as Well as Transesterification of Waste Cooking Oil using Potassium and Phosphotungstic Acid Supported Silica: Optimization and Kinetic Modeling	Himmat Singh, Amjad Ali	Himmat Singh, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Amjad Ali, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Affiliate Faculty: TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Kinetics and Catalysis	2022	231584

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4867	Guest Editorial: Special Issue on Machine Learning and Artificial Intelligence for Managing Networks, Systems, and Services-Part I	Zincir-Heywood N., Birke R., Bou-Harb E., Casale G., El-Khatib K., Inoue T., Kumar N., Lutfiyya H., Puthal D., Shami A., Stakhanova N., Zulkernine F.	Zincir-Heywood, N., Dalhousie University, Faculty of Computer Science, Halifax, B3H 4R2, Canada; Birke, R., University of Turin, Department of Computer Science, Turin, 10124, Italy; Bou-Harb, E., University of Texas at San Antonio, College of Business, San Antonio, TX 78249, United States; Casale, G., Imperial College London, Department of Computing, London, SW7 2BX, United Kingdom; El-Khatib, K., University of Ontario, Institute of Technology, Faculty of Business and Information Technology, Oshawa, L1G 0C5, Canada; Inoue, T., Ntt Corporation, Ntt Network Innovation Laboratories, Yokosuka, Japan; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Lutfiyya, H., Western University, Department of Computer Science, London, N6A 3K7, Canada; Puthal, D., Newcastle University, School of Computing, Newcastle upon Tyne, NE1 7RU, United Kingdom; Shami, A., Western University, Electrical and Computer Engineering, London, N6A 3K7, Canada; Stakhanova, N., University of Saskatchewan, Department of Computer Science, Saskatoon, S7N 5C9, Canada; Zulkernine, F., Queen's University, School of Computing, Kingston, K7L 3N6, Canada	IEEE Transactions on Network and Service Management	2022	19324537
4868	Examining the correlation between multi-neutron transfer and inelastic excitations in sub-barrier fusion enhancement	Rani A., Mandal S., Chakraborty K., Gupta R., Ahmad C.V., Parihari A., Vishwakarma D., Khandelwal P., Rawat P.S., Sherpa P., Kumar S., Madhavan N., Nath S., Gehlot J., Biswas R., Gonika, Kumar C., Noor S., Vinayak A.	Rani, A., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Mandal, S., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Chakraborty, K., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Gupta, R., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Ahmad, C.V., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Parihari, A., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Vishwakarma, D., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Khandelwal, P., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Rawat, P.S., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Sherpa, P., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Kumar, S., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Madhavan, N., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Nath, S., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gehlot, J., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Biswas, R., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gonika, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kumar, C., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Noor, S., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Vinayak, A., Department of Physics, Karnatak University, Karnataka, Dharwad, 580003, India	Physical Review C	2022	24699985
4869	Fusion-fission analysis of C 12 + Cm 248 and O 16 + Pu 244 nuclear reactions across the Coulomb barrier	Vijay, Grover N., Sharma K., Gautam M.S., Sharma M.K., Chahal R.P.	Vijay, Department of Physics, Chaudhary Bansi Lal University, Haryana, Bhiwani, 127021, India; Grover, N., Department of Physics, Indian Institute of Technology, Rupnagar, Ropar, 140001, India, Department of Physics, School of Basic Sciences, Manipal University Jaipur, Rajasthan, Jaipur, 303007, India; Sharma, K., School of Vocational Studies and Applied Sciences (SOVSAS), Gautam Buddha University, Greater Noida, India; Gautam, M.S., Department of Physics, Government College Alewa, Haryana, Jind, 126102, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chahal, R.P., Department of Physics, Chaudhary Bansi Lal University, Haryana, Bhiwani, 127021, India	Physical Review C	2022	24699985
4870	Why is a cavity soliton-based microscope still far from reality?	Nagi J.K., Jana S.	Nagi, J.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of the Optical Society of America B: Optical Physics	2022	7403224
4871	Validation of Novel spot blotch disease resistance alleles identified in unexplored wheat (Triticum aestivum L.) germplasm lines through KASP markers	Kumar S., Pradhan A.K., Kumar U., Dhillon G.S., Kaur S., Budhlakoti N., Mishra D.C., Singh A.K., Singh R., Kumari J., Kumaran V.V., Mishra V.K., Bhati P.K., Das S., Chand R., Singh K., Kumar S.	Kumar, S., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India; Pradhan, A.K., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India; Kumar, U., Borlaug Institute for South Asia, NASC Complex, DPS Marg, New Delhi, India; Dhillon, G.S., Thapar Institute of Engineering & Technology, Patiala, India; Kaur, S., Punjab Agricultural University, Punjab, Ludhiana, India; Budhlakoti, N., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Mishra, D.C., ICAR-Indian Agricultural Research Institute, Regional Station, Wellington, India; Singh, A.K., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India; Singh, R., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India; Kumari, J., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India; Kumaran, V.V., ICAR-Indian Agricultural Research Institute, Regional Station, Wellington, India; Mishra, V.K., Banaras Hindu University, Uttar Pradesh, Varanasi, India; Bhati, P.K., Borlaug Institute for South Asia, NASC Complex, DPS Marg, New Delhi, India; Das, S., Uttar Banga Krishi Vishwavidyalaya, Coochbehar, Pundibari, India; Chand, R., Banaras Hindu University, Uttar Pradesh, Varanasi, India; Singh, K., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India; Kumar, S., ICAR-National Bureau of Plant Genetic Resources, New Delhi, India	BMC Plant Biology	2022	14712229

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4872	Some Results for Intuitionistic Fuzzy Inequality	Peng X., Garg H., Luo Z.	Peng, X., School of Information Engineering, Shaoguan University, Shaoguan, 512005, China, College of Computer, National University of Defense Technology, Changsha, 410073, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 247667, India; Luo, Z., College of Computer, National University of Defense Technology, Changsha, 410073, China	International Journal of Computational Intelligence Systems	2022	18756891
4873	LSSDNF: A Lightweight Secure Software Defined Network Framework for Future Internet in 5G-6G	Singh S., Mehla V., Nikolovski S.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mehla, V., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering Computing and Information Technology, Osijek, 31000, Croatia	Future Internet	2022	19995903
4874	Comparative Analysis on Reinforcement of Potential Additives in WOKA Cermet HVOF Coating Subjected to Slurry Erosion in Ash Conditions	Singh J., Gill R., Kumar S., Mohapatra S.K.	Singh, J., University Center for Research & Development, Chandigarh University, Mohali, 140413, India; Gill, R., University Center for Research & Development, Chandigarh University, Mohali, 140413, India, Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, 140413, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jharkhand, Jamshedpur, 831014, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Iranian Journal of Materials Science and Engineering	2022	17350808
4875	Conventions of the Ungendered Narrative	Jetubhai K.B., Ghosal M.	Jetubhai, K.B., Thapar Institute of Engineering and Technology, India; Ghosal, M., Visvesvaraya National Institute of Technology, India	Anglia	2022	3405222
4876	Experimental and numerical analysis of flow characteristics of sand-water slurry in a horizontal pipe	Singh V., Kumar S., Ratha D.	Singh, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., Mechanical Engineering Department, National Institution of Technology, Jharkhand, Jamshedpur, 831014, India; Ratha, D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Engineering Research (Kuwait)	2022	23071885
4877	Mechanical and durability properties of concrete incorporating weathered coarse Linz-Donawitz (LD) steel slag	Singh P., Roy A.B.D., Singh H.	Singh, P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Roy, A.B.D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Building Engineering	2022	23527102
4878	Fusion dynamics of astrophysical reactions using different transmission coefficients	Rana S., Kumar R., Patra S.K., Bhuyan M.	Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalya Marg, Bhubaneswar, 751005, India, Training School Complex, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Natural Science, Duy Tan University, Da Nang, 550000, Viet Nam	European Physical Journal A	2022	14346001
4879	Application of chemometric modeling for identification of pollution sources from drains of Ghaggar River, Punjab, India	Kaur H., Rajor A., Kaleka A.S.	Kaur, H., Department of Zoology and Environmental Sciences, Punjabi University Patiala, Punjab147 002, India; Rajor, A., School of Energy and Environment, Thapar University Patiala, Punjab147 004, India; Kaleka, A.S., Department of Zoology and Environmental Sciences, Punjabi University Patiala, Punjab147 002, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
4880	Machine learning solution of a coalitional game for optimal power allocation in multi-relay cooperative scenario	Kumar R., Singh H.	Kumar, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
4881	Robust and secured watermarking using Ja-Fi optimization for digital image transmission in social media	Jyothsna Devi K., Singh P., Thakkar H.K., Kumar N.	Jyothsna Devi, K., Department of Computer Science and Engineering, SRM University-A.P.522502, India; Singh, P., Department of Computer Science and Engineering, SRM University-A.P.522502, India; Thakkar, H.K., Department of Computer Science and Engineering, School of Technology, Pandit Deendayal Energy University, Gujarat, Gandhinagar, 382007, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Engineering Studies, Uttarakhand, Dehradun, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdul Aziz University, Jeddah, Saudi Arabia	Applied Soft Computing	2022	15684946
4882	Renewable energy proliferation for sustainable development: Role of cross-border electricity trade	Jha A.P., Mahajan A., Singh S.K., Kumar P.	Jha, A.P., LM Thapar School of Management, Punjab, Dera Bassi, India; Mahajan, A., LM Thapar School of Management, Punjab, Dera Bassi, India; Singh, S.K., Indian Institute of Management Lucknow, UP, Lucknow, India; Kumar, P., LM Thapar School of Management, Punjab, Dera Bassi, India	Renewable Energy	2022	9601481
4883	Effect of nutrient and culture conditions on enhanced biodegradation of phenolic pollutants: A review on recent development and future prospective	Priyadarshini A., Mishra S., Sahoo M.M., Rout P.R., Sahoo N.K.	Priyadarshini, A., Department of Chemistry, Environmental Science Program, (ITER), Siksha 'O' Anusandhan (Deemed to be University), Odisha, Bhubaneswar, India; Mishra, S., Department of Chemistry, Environmental Science Program, (ITER), Siksha 'O' Anusandhan (Deemed to be University), Odisha, Bhubaneswar, India; Sahoo, M.M., Centre for Biotechnology, Siksha 'O'Anusandhan, Deemed to be University, Odisha, Bhubaneswar, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sahoo, N.K., Department of Chemistry, Environmental Science Program, (ITER), Siksha 'O' Anusandhan (Deemed to be University), Odisha, Bhubaneswar, India	Environmental Quality Management	2022	10881913

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4884	Isolation and characterization of thermostable and alkali-tolerant cellulase from litter endophytic fungus <i>Bartalinia pondoensis</i>	Yadav R., Vasundhara M., Rajamani T., Suryanarayanan T.S., Reddy S.M.	Yadav, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rajamani, T., Vivekananda Institute of Tropical Mycology (VINSTROM), Ramakrishna Mission Vidyapith, Tamil Nadu, Chennai, 600004, India; Suryanarayanan, T.S., Vivekananda Institute of Tropical Mycology (VINSTROM), Ramakrishna Mission Vidyapith, Tamil Nadu, Chennai, 600004, India; Reddy, S.M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Folia Microbiologica	2022	155632
4885	A hybrid trapezoidal fuzzy FUCOM-AHP approach and their application to identification of monkeypox risk factors	Garg H., Majumder P., Nath M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, India; Majumder, P., Department of Basic Science and Humanities, Techno College of Engineering Agartala, Tripura, India; Nath, M., Department of Basic Science and Humanities, Techno College of Engineering Agartala, Tripura, India	Computational and Applied Mathematics	2022	22383603
4886	A vision towards integrated 6G communication networks: Promising technologies, architecture, and use-cases	Jain P., Gupta A., Kumar N.	Jain, P., School of Electronics and Electrical Engineering, Lovely Professional University, Punjab, India; Gupta, A., School of Electronics and Electrical Engineering, Lovely Professional University, Punjab, India; Kumar, N., TIET, Punjab, Patiala, India, Department of Electrical and Computer Engineering, Lebanon American University, Lebanon, School of CS, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India	Physical Communication	2022	18744907
4887	An efficient quality of services based wireless sensor network for anomaly detection using soft computing approaches	Mittal M., Kobielnik M., Gupta S., Cheng X., Wozniak M.	Mittal, M., Scool Team, Centre de Recherche en Informatique, Signal et Automatique de Lille (INRIA), Lille, Villeneuve-d'Ascq, 59655, France; Kobielnik, M., Faculty of Applied Mathematics, Silesian University of Technology, Gliwice, 44100, Poland; Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering And Technology, Punjab, Patiala, 147004, India; Cheng, X., Department of Computer Science, Middlesex University, The Burroughs, London, NW4 4BT, United Kingdom; Wozniak, M., Faculty of Applied Mathematics, Silesian University of Technology, Gliwice, 44100, Poland	Journal of Cloud Computing	2022	2192113X
4888	Improving emergency departments during COVID-19 pandemic: a simulation and MCDM approach with MARCOS methodology in an uncertain environment	Memarpour Ghiasi A., Garg H., Jafarzadeh Ghouschi S.	Memarpour Ghiasi, A., Industrial Engineering Department, Malek Ashtar University of Technology, Tehran, 15875-1774, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphics Era Deemed to be University, Uttarakhand, Dehradun, India; Jafarzadeh Ghouschi, S., Faculty of Industrial Engineering, Urmia University of Technology, Urmia, Iran	Computational and Applied Mathematics	2022	22383603
4889	Vision-Based Semantic Segmentation in Scene Understanding for Autonomous Driving: Recent Achievements, Challenges, and Outlooks	Muhammad K., Hussain T., Ullah H., Ser J.D., Rezaei M., Kumar N., Hijji M., Bellavista P., De Albuquerque V.H.C.	Muhammad, K., College of Computing and Informatics, Sungkyunkwan University, Visual Analytics for Knowledge Laboratory (VIS2KNOW Laboratory), Department of Applied Artificial Intelligence, School of Convergence, Seoul, 03063, South Korea; Hussain, T., Institute for Transport Studies, University of Leeds, Leeds, LS2 9JT, United Kingdom; Ullah, H., Kansas State University, Intelligent Systems, Computer Architecture, Analytics, and Security Laboratory (ISCAAS Laboratory), Department of Computer Science, Manhattan, KS 66506, United States; Ser, J.D., TECNALIA, Basque Research & Technology Alliance (BRTA), Derio, 48160, Spain, University of the Basque Country (UPV/EHU), Department of Communications Engineering, Bilbao, 48013, Spain; Rezaei, M., Institute for Transport Studies, University of Leeds, Leeds, LS2 9JT, United Kingdom; Kumar, N., Department of Csed, Thapar University, Punjab, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248121, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102 2801, Lebanon, Department of Computing and It, King Abdul Aziz University, Jeddah, 22230, Saudi Arabia; Hijji, M., Faculty of Computers and Information Technology (FCIT), University of Tabuk, Tabuk, 47711, Saudi Arabia; Bellavista, P., Disi, University of Bologna, Bologna, 40126, Italy; De Albuquerque, V.H.C., Department of Teleinformatics Engineering, Federal University of Ceara, Ceara, Fortaleza, 60455-970, Brazil	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
4890	Design and development of a double spiral antenna with an artificial magnetic conductor structure for hyperthermia treatment	Sharma N., Kaur A., Khanna R., Singh H.S., Agarwal M.	Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), Thapar Institute of Engineering & Technology, Punjab, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2022	10964290

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4891	Various aggregation operators of the generalized hesitant fuzzy numbers based on Archimedean t-norm and t-conorm functions	Garg H., Keikha A.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Keikha, A., Department of Mathematics, Velayat University, Iranshahr, Iran	Soft Computing	2022	14327643
4892	A miniaturized highly isolated double negative metasurface MIMO antenna for sub-6GHz band	Sharma R., Khanna R., Singla G.	Sharma, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singla, G., Chitkara Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
4893	Some novel point operators and multiple rounds voting process based decision-making algorithm under picture fuzzy set environment	Kumar S., Garg H.	Kumar, S., Department of Mathematics, Ch. Charan Singh University, Uttar Pradesh, Meerut, 250004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, India	Advances in Engineering Software	2022	9659978
4894	Estimating the Parametric Functions and Reliability Measures for Exponentiated Lifetime Distributions Family	Baloui Jamkhaneh E., Pourreza H., Deiri E., Garg H.	Baloui Jamkhaneh, E., Department of Statistics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Pourreza, H., Department of Statistics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Deiri, E., Department of Statistics, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India	Gazi University Journal of Science	2022	21471762
4895	Electrochemical sensor based on ion-selective membrane of silica/polyaniline nano-composites for selective determination of uranyl ions	Kaur G., Kaur H., Mittal S.K.	Kaur, G., Department of Chemistry, Punjabi University, Punjab, Patiala, 147002, India; Kaur, H., Department of Chemistry, Punjabi University, Punjab, Patiala, 147002, India; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Punjab, Patiala, 147004, India	Talanta Open	2022	26668319
4896	Parameter adaptive unit-linking dual-channel PCNN based infrared and visible image fusion	Panigrahy C., Seal A., Mahato N.K.	Panigrahy, C., Thapar Institute of Engineering & Technology, Patiala, 147004, India; Seal, A., PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, 482005, India; Mahato, N.K., PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, 482005, India	Neurocomputing	2022	9252312
4897	Mechanical evaluation of recycled aggregate mixes and its application in reclaimed asphalt pavement (RAP) stretch	Choudhary L., Bansal S., Kalra M., Dagar L.	Choudhary, L., Department of Civil and Environmental Engineering, The NorthCap University, Haryana, Gurugram, 122017, India; Bansal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kalra, M., Department of Civil Engineering, Jamia Milia Islamia, New Delhi, 110025, India; Dagar, L., Public Works (Buildings and Roads) Department, Haryana, Rohtak, 124001, India	Beni-Suef University Journal of Basic and Applied Sciences	2022	23148535
4898	COVID-19 identification in chest X-ray images using intelligent multi-level classification scenario	Babukarthik R.G., Chandramohan D., Tripathi D., Kumar M., Sambasivam G.	Babukarthik, R.G., Department of Computer Science and Engineering, Dayananda Sagar University, Bangalore, 560078, India; Chandramohan, D., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Tripathi, D., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kumar, M., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Sambasivam, G., School of Computing Science & Engineering, VIT Bhopal University, India	Computers and Electrical Engineering	2022	457906
4899	Design of a multi-epitope vaccine against the pathogenic fungi Candida tropicalis using an in silico approach	Akhtar N., Singh A., Upadhyay A.K., Mannan M.A.-U.	Akhtar, N., Department of Molecular Biology and Genetic Engineering, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144401, India; Singh, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mannan, M.A.-U., Department of Molecular Biology and Genetic Engineering, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144401, India, Division of Infectious Disease, The Lundquist Institute for Biomedical Innovation at Harbor, University of California Los Angeles (UCLA) Medical Center, Los Angeles, CA, United States	Journal of Genetic Engineering and Biotechnology	2022	1687157X
4900	Response investigation of 3-stage 8 × 8 low-latency wideband TW-SOA switch for high-performance computing applications	Kaur H., Kaler R.S.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Optical and Quantum Electronics	2022	3068919
4901	Catalytic Reduction of Water Contaminants Using Green Gold Nanoparticles Mediated by Stem Extract of Nepeta Leucophylla	Kathuria D., Bhattu M., Sharma A., Sareen S., Verma M., Kumar S.	Kathuria, D., University Centre for Research and Development, Chandigarh University, Punjab, Gharuan, 140413, India; Bhattu, M., University Centre for Research and Development, Chandigarh University, Punjab, Gharuan, 140413, India; Sharma, A., Department of Chemistry, Sant Longowal Institute of Engineering and Technology, Punjab, Longowal, 148106, India; Sareen, S., School of Chemistry and Biochemistry, Thapar University, Punjab, Patiala, 147004, India; Verma, M., University Centre for Research and Development, Chandigarh University, Punjab, Gharuan, 140413, India; Kumar, S., Swift School of Pharmacy, Punjab, Rajpura, 140401, India	Topics in Catalysis	2022	10225528

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4902	Sustainable use of different size fractions of municipal solid waste incinerator bottom ash and recycled fine aggregates in cement mortar	Singh A., Zhou Y., Gupta V., Sharma R.	Singh, A., School of Civil Engineering & Architecture, Changzhou Institute of Technology, Changzhou, 213032, China, Department of Structural Engineering, Tongji University, Shanghai, 200092, China; Zhou, Y., School of Civil Engineering & Architecture, Changzhou Institute of Technology, Changzhou, 213032, China; Gupta, V., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, R., Shri Mata Vaishno Devi University Katra, J&K182320, India	Case Studies in Construction Materials	2022	22145095
4903	Analyses of lattice hydrodynamic area occupancy model for heterogeneous disorder traffic	Kaur D., Sharma S., Gupta A.K.	Kaur, D., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, A.K., Department of Mathematics, Indian Institute of Technology Ropar, Punjab, Rupnagar, 140001, India	Physica A: Statistical Mechanics and its Applications	2022	3784371
4904	Experimental analysis of electric vehicle's Li-ion battery with constant pulse and constant voltage charging method	Villuri R.T., Singh M., Beck Y.	Villuri, R.T., Electrical and Instrumentation Engineering Department, TIET, Patiala, India; Singh, M., Electrical and Instrumentation Engineering Department, TIET, Patiala, India; Beck, Y., School of Electrical Engineering, EL AVIV University, Tel Aviv-Yafo, Israel	International Journal of Energy Research	2022	0363907X
4905	A comprehensive review on landmine detection using deep learning techniques in 5G environment: open issues and challenges	Barnawi A., Budhiraja I., Kumar K., Kumar N., Alzahrani B., Almansour A., Noor A.	Barnawi, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Budhiraja, I., School of Computer Science Engineering and Technology, Uttar Pradesh, Greater Noida, India; Kumar, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Alzahrani, B., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Almansour, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Noor, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia	Neural Computing and Applications	2022	9410643
4906	Genetic algorithm-based higher-order model reduction of proton exchange membrane fuel cell	Kumar H., Gupta B., Singh P., Sandhu A.	Kumar, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, B., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sandhu, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	International Journal of Energy Research	2022	0363907X
4907	Removal of carbamazepine, venlafaxine and iohexol from wastewater effluent using coupled microalgal–bacterial biofilm	Akao P.K., Kaplan A., Avisar D., Dhir A., Avni A., Mamane H.	Akao, P.K., School of Mechanical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, The Water Research Center, Porter School of the Environment and Earth Sciences, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, 69978, Israel; Kaplan, A., The Water Research Center, Porter School of the Environment and Earth Sciences, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, 69978, Israel; Avisar, D., The Water Research Center, Porter School of the Environment and Earth Sciences, Faculty of Exact Sciences, Tel Aviv University, Tel Aviv, 69978, Israel; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 69978, India; Avni, A., School of Plant Science and Food Security, Tel Aviv University, Tel Aviv, 69978, Israel; Mamane, H., School of Mechanical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel	Chemosphere	2022	456535
4908	Development of heterocyclic 2,7-diamino-3-phenylazo-6-phenylpyrazolo[1,5-a]pyrimidine as antimicrobial agent and selective probe for UV–visible and colorimetric detection of Hg2+ ions	Aggarwal R., Kumar S., Virender, Kumar A., Mohan B., Sharma D., Kumar V.	Aggarwal, R., CSIR-National Institute of Science, Communication and Policy Research, Dr. KS Krishnan Marg, PUSA Campus, New Delhi, 110012, India, Department of Chemistry, Kurukshetra University, Haryana, Kurukshetra, 136119, India; Kumar, S., Department of Chemistry, Kurukshetra University, Haryana, Kurukshetra, 136119, India, Department of Chemistry, Shaheed Udham Singh, Govt. College, Mata Majri, Karnal, India; Virender, Department of Chemistry, Kurukshetra University, Haryana, Kurukshetra, 136119, India; Kumar, A., Department of Chemistry, Kurukshetra University, Haryana, Kurukshetra, 136119, India; Mohan, B., College of Ocean Food and Biological Engineering, Jimei University, 185 Yinjiang Road, Jimei District, Xiamen, 36102, China; Sharma, D., Department of Life Sciences, JC Bose, University of Science and Technology, YMCA, Faridabad, 126001, India; Kumar, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Microchemical Journal	2022	0026265X
4909	Structure preserving loss function for single image super resolution	Tuli N., Chandra Raikwar S., Alahmadi M.D., Alghamdi W., Singh H., Singh Rana P.	Tuli, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chandra Raikwar, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Alahmadi, M.D., Department of Software Engineering, College of Computer Science and Engineering, University of Jeddah, Jeddah, Saudi Arabia; Alghamdi, W., Department of Information Technology, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Singh, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh Rana, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Displays	2022	1419382
4910	In vitro detection of skin cancer using an UWB stacked micro strip patch antenna with microwave imaging	Kaur K., Kaur A.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2022	10964290

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4911	Structural, functional analysis and association of MSH6 rs1800932, rs1042821 polymorphisms with clinical outcome in North Indian lung cancer patients treated with platinum-based doublet chemotherapy	Singh S., Singh N., Baranwal M., Sharma S.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	American Journal of the Medical Sciences	2022	29629
4912	Aging of Transformer Pressboard Impregnated With Conductive and Semi-Conductive Nanoparticles Dispersed Soybean Oil Blend	Siddique Z.B., Basu S., Basak P.	Siddique, Z.B., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., Thapar Institute of Engineering and Technology, School of Chemistry and Bio-Chemistry, Patiala, 147004, India; Basak, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Dielectrics and Electrical Insulation	2022	10709878
4913	Solid oxide fuel cell parameter estimation using enhanced LSHADE algorithm and Newton Raphson method	Singla M.K., Gupta J., Nijhawan P.	Singla, M.K., Electrical Engineering Department, Baba Farid College of Engineering and Technology, Bathinda, India; Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Energy Research	2022	0363907X
4914	Modified Direct Torque Control Technique of Induction Motor for Torque Ripple and Common-Mode Voltage Reduction with Neutral-Point Voltage Balancing	Tatte Y., Aware M., Badoni M.	Tatte, Y., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Aware, M., Electrical Engineering Department, Visvesvaraya National Institute of Technology, Nagpur, India; Badoni, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2022	22286179
4915	Excited state double proton transfer efficient probe: Theoretical investigation and sensing ability towards Pb2+ and Al3+ ions	Palta A., Kumar G., Luxami V.	Palta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Chemistry, M. M. Engineering College, Maharishi Markandeshwar (Deemed to University), Mullana, 133207, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2022	10106030
4916	Mining Sequential Learning Trajectories with Hidden Markov Models for Early Prediction of At-Risk Students in E-Learning Environments	Gupta A., Garg D., Kumar P.	Gupta, A., Bennett University, Greater Noida, 201310, India; Garg, D., Bennett University, Greater Noida, 201310, India; Kumar, P., Thapar Institute of Engineering & Technology, Patiala, 147004, India	IEEE Transactions on Learning Technologies	2022	19391382
4917	Response surface methodology based parametric study for AISI H13 die steel using customized designed 3D printed Ti64 multi-nozzle polishing tool	Choudhary S., Duvedi R.K., Saini J.S.	Choudhary, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Duvedi, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062
4918	Prediction of temperature elevation in rotary ultrasonic bone drilling using machine learning models: An in-vitro experimental study	Agarwal R., Singh J., Gupta V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Medical Engineering and Physics	2022	13504533
4919	INNA: An improved neural network algorithm for solving reliability optimization problems	Kundu T., Garg H.	Kundu, T., Department of Mathematics, Chandigarh University, Punjab, Mohali, 140413, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India	Neural Computing and Applications	2022	9410643
4920	REAP-IIoT: Resource-Efficient Authentication Protocol for the Industrial Internet of Things	Tanveer M., Alkhatyat A., Khan A.U., Kumar N., Alharbi A.G.	Tanveer, M., University of Management and Technology, School of Systems and Technology, Lahore, 54770, Pakistan; Alkhatyat, A., Islamic University, College of Technical Engineering, Department of Computer Technical Engineering, Najaf, 54001, Iraq; Khan, A.U., National University of Sciences and Technology Balochistan Campus, Department of Computer Science, Quetta, 87300, Pakistan; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, India, Asia University, Department of Computer Science and Information Engineering, Taichung, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia; Alharbi, A.G., Jouf University, Faculty of Engineering, Department of Electrical Engineering, Sakaka, 42421, Saudi Arabia	IEEE Internet of Things Journal	2022	23274662
4921	Prediction of surface roughness and cutting force induced during rotary ultrasonic bone drilling via statistical and machine learning algorithms	Agarwal R., Gupta V., Singh J., Jain V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4922	Polymorphisms in solute carrier genes (SLC19A1, SLC01B1, and SLC01B3) predicts survival and toxicity in North Indian lung cancer patients undergoing platinum-based doublet chemotherapy	Sharma P., Singh N., Sharma S.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary medicine, Post Graduate Institute of Medical Education & Research, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Clinical Pharmacy and Therapeutics	2022	2694727
4923	Multi-criteria decision making of COVID-19 vaccines (in India) based on ranking interpreter technique under single valued bipolar neutrosophic environment	Garai T., Garg H.	Garai, T., Department of Mathematics, Syamsundar College, Syamsundar, West Bengal, Purba Bardhaman, 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Expert Systems with Applications	2022	9574174
4924	A Flexible Dynamic Master–User Look-Up Table Approach for Evaluation of Trigonometric Values	Satti P., Sharma N., Singh G., Garg B.	Satti, P., Thapar Institute of Engineering and Technology, Patiala, Patiala, India; Sharma, N., Thapar Institute of Engineering and Technology, Patiala, Patiala, India; Singh, G., Thapar Institute of Engineering and Technology, Patiala, Patiala, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, Patiala, India	Wireless Personal Communications	2022	9296212
4925	A system for electric vehicle's energy-aware routing in a transportation network through real-time prediction of energy consumption	Modi S., Bhattacharya J.	Modi, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhattacharya, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Complex and Intelligent Systems	2022	21994536
4926	A new method for image processing using generalized linguistic neutrosophic cubic aggregation operator	Kaur G., Garg H.	Kaur, G., Department of Mathematics, University Institute of Sciences, Chandigarh University, Gharuan, Mohali Punjab, 140413, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala Punjab, 147004, India	Complex and Intelligent Systems	2022	21994536
4927	TRAP: task-resource adaptive pairing for efficient scheduling in fog computing	Kaur N., Kumar A., Kumar R.	Kaur, N., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India; Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India, Lovely Professional University, Phagwara, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Cluster Computing	2022	13867857
4928	Cloud-Based Framework for Performing Digital Forensic Investigations	Prakash V., Williams A., Garg L., Barik P., Dhanaraj R.K.	Prakash, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Williams, A., University of Liverpool, Liverpool, United Kingdom; Garg, L., University of Malta, Msida, Malta; Barik, P., Department of ICT, Pandit Deendayal Energy University, Gandhinagar, India; Dhanaraj, R.K., School of Computing Science and Engineering, Galgotias University, Uttar Pradesh, Greater Noida, India	International Journal of Wireless Information Networks	2022	10689605
4929	Correction to: A meta-heuristic-based energy efficient route modeling for EV on nonidentical road surfaces (Neural Computing and Applications, (2022), 34, 18, (15575-15588), 10.1007/s00521-022-07205-5)	Kumar A., Kumar R., Aggarwal A.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Pb., Patiala, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Pb., Patiala, 147004, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Pb., Patiala, 147004, India	Neural Computing and Applications	2022	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4930	Microstructure effects on the phase transition behavior of a prototypical quantum material	Schunck J.O., Döring F., Rösner B., Buck J., Engel R.Y., Miedema P.S., Mahatha S.K., Hoesch M., Petraru A., Kohlstedt H., Schüßler-Langeheine C., Rosnagel K., David C., Beye M.	Schunck, J.O., Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany, Physics Department, Universität Hamburg, Luruper Chaussee 149, Hamburg, 22761, Germany; Döring, F., Paul Scherrer Institut (PSI), Forschungsstraße 111, Villigen, 5232, Switzerland; Rösner, B., Paul Scherrer Institut (PSI), Forschungsstraße 111, Villigen, 5232, Switzerland; Buck, J., Institut für Experimentelle und Angewandte Physik, Kiel University, Olshausenstraße 40, Kiel, 24098, Germany, Ruprecht-Haensel-Labor, Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany; Engel, R.Y., Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany, Physics Department, Universität Hamburg, Luruper Chaussee 149, Hamburg, 22761, Germany; Miedema, P.S., Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany; Mahatha, S.K., Ruprecht-Haensel-Labor, Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hoesch, M., Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany; Petraru, A., Faculty of Engineering, Chair of Nanoelectronics, Kiel University, Kaiserstraße 2, Kiel, 24143, Germany; Kohlstedt, H., Faculty of Engineering, Chair of Nanoelectronics, Kiel University, Kaiserstraße 2, Kiel, 24143, Germany; Schüßler-Langeheine, C., Helmholtz-Zentrum Berlin für Materialien und Energie, Albert-Einstein-Straße 15, Berlin, 12489, Germany; Rosnagel, K., Institut für Experimentelle und Angewandte Physik, Kiel University, Olshausenstraße 40, Kiel, 24098, Germany, Ruprecht-Haensel-Labor, Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany; David, C., Paul Scherrer Institut (PSI), Forschungsstraße 111, Villigen, 5232, Switzerland; Beye, M., Deutsches Elektronen-Synchrotron DESY, Notkestraße 85, Hamburg, 22607, Germany, Physics Department, Universität Hamburg, Luruper Chaussee 149, Hamburg, 22761, Germany	Scientific Reports	2022	20452322
4931	Big data dimensionality reduction techniques in IoT: review, applications and open research challenges	Rani R., Khurana M., Kumar A., Kumar N.	Rani, R., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India; Khurana, M., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India; Kumar, A., Department of Computer Engineering, Marwadi University, Gujarat, Rajkot, India; Kumar, N., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, King Abdul Aziz University, Jidda, Saudi Arabia, Department of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehra Dun, India	Cluster Computing	2022	13867857
4932	Torque ripple reduction in three-level five-phase inverter-fed five-phase induction motor	Tatte Y., Aware M., Khadse C.	Tatte, Y., EIED, Thapar Institute of Engineering and Technology, Patiala, India; Aware, M., VNIT, Nagpur, India; Khadse, C., MIT World Peace University, Pune, India	Electrical Engineering	2022	9487921
4933	Enhanced reversible and secure patient data hiding algorithm based on cellular automata	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
4934	Assessment of Late Blight Resistance in Indian Potato Cultivars and Associated Biochemical Changes During Disease Development	Kaur A., Sharma V., Kumar A.	Kaur, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India, Division of Plant Sciences at the James Hutton Institute, University of Dundee DD2 5DA, United Kingdom; Sharma, V., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kumar, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India	Potato Research	2022	143065
4935	A Generalized Analytical Approach to Model the Gate Tunneling Current in Nanoscale Double Gate MOSFETs	Kushwaha M., Chatterjee A.K., Prasad B., Chatterjee A.K., Agarwal A.	Kushwaha, M., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University) Patiala, Punjab, India; Chatterjee, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University) Patiala, Punjab, India; Prasad, B., Department of Electronic Science, Kurukshetra University, Haryana, Kurukshetra, India; Chatterjee, A.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University) Patiala, Punjab, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, (formerly known as Thapar University) Patiala, Punjab, India	Silicon	2022	1876990X
4936	SODAR Based Meteorological Sensor Network for Air Pollution Monitoring in Northern India	Chourey P., Singh N.J., Soni K., Agarwal R.	Chourey, P., Thapar Institute of Engineering and Technology, Patiala, India, CSIR-National Physical Laboratory, New Delhi, India; Singh, N.J., Thapar Institute of Engineering and Technology, Patiala, India; Soni, K., CSIR-National Physical Laboratory, New Delhi, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Mapan - Journal of Metrology Society of India	2022	9703950
4937	Biomineralization of cyanobacteria Synechocystis pevalekii improves the durability properties of cement mortar	Sidhu N., Goyal S., Reddy M.S.	Sidhu, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	AMB Express	2022	21910855

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4938	Silicon Wafers; Its Manufacturing Processes and Finishing Techniques: an Overview	Pandey K., Sharma A., Singh A.K.	Pandey, K., Amity School of Engineering and Technology, Amity University Lucknow Campus, Uttar Pradesh, Lucknow, India; Sharma, A., Amity School of Engineering and Technology, Amity University Lucknow Campus, Uttar Pradesh, Lucknow, India; Singh, A.K., M.E. Thapar University, Punjab, Patiala, India	Silicon	2022	1876990X
4939	Multi-stage Primary and Secondary Recycled PLA Composite Matrix for 3D Printing Applications	Kumar S., Singh R., Singh T.P., Batish A., Singh M.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Mechanical Engineering, National Technical Teachers Training, and Research, Chandigarh, India, Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Department of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2022	3698203
4940	Extracting the Relationships among Students Based on Accessing Pattern of Digital Learning Attributes	Muhuri S., Mukhopadhyay D.	Muhuri, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mukhopadhyay, D., Web Intelligence & Distributed Computing Research Lab, Kolkata, 700095, India, Bennett University, Greater Noida, 201310, India	IEEE Transactions on Learning Technologies	2022	19391382
4941	Design and Investigation of Dual Dielectric Recessed-Gate AlGaIn/GaN HEMT as Gas sensor Application	Raman A., Chattopadhyay S.P., Ranjan R., Kumar N., Kakkar D., Sharma R.	Raman, A., Electronics and Communication Engineering, Dr.B.R. Ambedkar NIT Jalandhar, Punjab, Jalandhar, 144011, India; Chattopadhyay, S.P., Electronics and Communication Engineering, Dr.B.R. Ambedkar NIT Jalandhar, Punjab, Jalandhar, 144011, India; Ranjan, R., Electronics and Communication Engineering, Dr.B.R. Ambedkar NIT Jalandhar, Punjab, Jalandhar, 144011, India; Kumar, N., Electronics and Communication Engineering, Dr.B.R. Ambedkar NIT Jalandhar, Punjab, Jalandhar, 144011, India; Kakkar, D., Electronics and Communication Engineering, Dr.B.R. Ambedkar NIT Jalandhar, Punjab, Jalandhar, 144011, India; Sharma, R., Electronics and Communication Engineering, Thapar institute of engineering and technology, Bhadson Road, Punjab, Patiala, 147004, India	Transactions on Electrical and Electronic Materials	2022	12297607
4942	Fractional orthotriple fuzzy rough Hamacher aggregation operators and their application on service quality of wireless network selection	Qiyas M., Naeem M., Abdullah S., Khan F., Khan N., Garg H.	Qiyas, M., Department of Mathematics, Abdul Wali Khan University, KP, Mardan, Pakistan; Naeem, M., Deanship of Combined First Year Umm Al-Qura University, Makkah, P.O. Box 715, Saudi Arabia; Abdullah, S., Department of Mathematics, Abdul Wali Khan University, KP, Mardan, Pakistan; Khan, F., College of Engineering and Informatics, National University Ireland, Galway, 91 CF50, Ireland; Khan, N., Department of Mathematics, Abdul Wali Khan University, KP, Mardan, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, India	Alexandria Engineering Journal	2022	11100168
4943	On the Use of Wavelets for Analysis of Nanofluid Flow and Thermal Transmission Through Asymmetric Porous Channel	Pandit S., Sharma S.	Pandit, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, S., Department of Mathematics and Statistics, Gurukul Kangri, Vishwavidyalaya, (U.K.), Haridwar, 249404, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2022	3698203
4944	Uncertainty modeling in multi-objective vehicle routing problem under extreme environment	Sirbiladze G., Garg H., Ghvaberidze B., Matsaberidze B., Khutsishvili I., Midodashvili B.	Sirbiladze, G., Department of Computer Sciences, Faculty of Exact and Natural Sciences, Iv. Javakishvili Tbilisi State University, Tbilisi, Georgia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Ghvaberidze, B., Department of Computer Sciences, Faculty of Exact and Natural Sciences, Iv. Javakishvili Tbilisi State University, Tbilisi, Georgia; Matsaberidze, B., Department of Computer Sciences, Faculty of Exact and Natural Sciences, Iv. Javakishvili Tbilisi State University, Tbilisi, Georgia; Khutsishvili, I., Department of Computer Sciences, Faculty of Exact and Natural Sciences, Iv. Javakishvili Tbilisi State University, Tbilisi, Georgia; Midodashvili, B., Department of Computer Sciences, Faculty of Exact and Natural Sciences, Iv. Javakishvili Tbilisi State University, Tbilisi, Georgia	Artificial Intelligence Review	2022	2692821
4945	Combating COVID-19 crisis and predicting the second wave in Europe: an Age-structured modeling	Upadhyay R.K., Chatterjee S., Roy P., Bhardwaj D.	Upadhyay, R.K., Department of Mathematics and Computing, Indian Institute of Technology (Indian School of Mines) Dhanbad, Jharkhand, Dhanbad, 826004, India; Chatterjee, S., Indian Institute of Science Education and Research Kolkata, West Bengal, Kolkata, 741246, India; Roy, P., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhardwaj, D., Department of Electrical Engineering, IIT Delhi, New Delhi, Hauz Khas, 110016, India	Journal of Applied Mathematics and Computing	2022	15985865
4946	Monostatic Radar-Based Microwave Imaging of Breast Tumor Using an Ultra-wideband Dielectric Resonator Antenna (DRA) with a Sierpinski Fractal Defected Ground Structure	Kaur G., Kaur A.	Kaur, G., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Thapar Institute of Engineering and Technology, Patiala, India	Mapan - Journal of Metrology Society of India	2022	9703950
4947	A hybrid TLNABC algorithm for reliability optimization and engineering design problems	Kundu T., Garg H.	Kundu, T., Department of Mathematics, Chandigarh University, Punjab, Chandigarh, 140413, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Engineering with Computers	2022	1770667

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4948	GMAW-Based Metal Deposition Using Semi-automatic Movement Setup	Kumar V., Bera T.K.	Kumar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), (Earlier-Thapar University), Patiala, 147004, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), (Earlier-Thapar University), Patiala, 147004, India	Arabian Journal for Science and Engineering	2022	2193567X
4949	Correlation of Serum Selenium in Asthma Patients with Severity of the Disorder	Girdhar N., Kansal H., Garg K., Sharma S., Prabhu K.S., Chopra V., Tinkov A.A., Skalny A.V., Prakash N.T.	Girdhar, N., Department of Pulmonary Medicine, Government Medical College and Hospital, Patiala, India; Kansal, H., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Garg, K., Department of Pulmonary Medicine, Government Medical College and Hospital, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Prabhu, K.S., Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, University Park, PA, United States; Chopra, V., Department of Pulmonary Medicine, Government Medical College and Hospital, Patiala, India; Tinkov, A.A., Yaroslavl State University, Yaroslavl, 150003, Russian Federation, Laboratory of Molecular Dietetics, IM Sechenov First Moscow State Medical University (Sechenov University), Moscow, 119146, Russian Federation; Skalny, A.V., World-Class Research Center "Digital Biodesign and Personalized Healthcare", IM Sechenov First Moscow State Medical University (Sechenov University), Moscow, 119435, Russian Federation, K.G. Razumovsky Moscow State University of Technologies and Management, Zemlyanoi Val St., 73, Moscow, 109004, Russian Federation; Prakash, N.T., School of Energy and Environment, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Biological Trace Element Research	2022	1634984
4950	Heat shock enhanced Agrobacterium tumefaciens mediated T-DNA delivery to potato (Solanum tuberosum L.)	Kaur A., Reddy M.S., Kumar A.	Kaur, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Reddy, M.S., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kumar, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India	Journal of Plant Biochemistry and Biotechnology	2022	9717811
4951	Identification of SNPs in hMSH3/MSH6 interaction domain affecting the structure and function of MSH2 protein	Singh S., Sharma S., Baranwal M.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Biotechnology and Applied Biochemistry	2022	8854513
4952	T-cell epitope-based vaccine designing against Orthohantavirus: a causative agent of deadly cardio-pulmonary disease	Joshi A., Ray N.M., Singh J., Upadhyay A.K., Kaushik V.	Joshi, A., School of Bio-Engineering and Bio-Sciences, Lovely Professional University, Phagwara, Punjab, India; Ray, N.M., School of Bio-Engineering and Bio-Sciences, Lovely Professional University, Phagwara, Punjab, India; Singh, J., School of Bio-Engineering and Bio-Sciences, Lovely Professional University, Phagwara, Punjab, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaushik, V., School of Bio-Engineering and Bio-Sciences, Lovely Professional University, Phagwara, Punjab, India	Network Modeling Analysis in Health Informatics and Bioinformatics	2022	21926662
4953	Health Record Security Through Multiple Watermarking on Fused Medical Images	Anand A., Singh A.K.	Anand, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Singh, A.K., National Institute of Technology Patna, Department of Computer Science and Engineering, Patna, 800005, India	IEEE Transactions on Computational Social Systems	2022	2329924X
4954	EVBlocks: A Blockchain-Based Secure Energy Trading Scheme for Electric Vehicles underlying 5G-V2X Ecosystems	Bhattacharya P., Tanwar S., Bodkhe U., Kumar A., Kumar N.	Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Bodkhe, U., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, A., Sreyas Institute of Engineering and Technology, Nagole, Hyderabad, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India, The University of Petroleum and Energy Studies, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taiwan	Wireless Personal Communications	2022	9296212
4955	Sanskrit to universal networking language EnConverter system based on deep learning and context-free grammar	Sitender, Bawa S.	Sitender, Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, MSIT, New Delhi, 110058, India; Bawa, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Systems	2022	9424962
4956	A roadmap for enabling industry 4.0 by artificial intelligence	Chatterjee J.M., Garg H., Thakur R.N.	Chatterjee, J.M., Information Technology Department, Lord Buddha Education Foundation (LBEF), Kathmandu, Nepal; Garg, H., Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Thakur, R.N., Information Technology Department, Lord Buddha Education Foundation (LBEF), Kathmandu, Nepal	A Roadmap for Enabling Industry 4.0 by Artificial Intelligence	2022	
4957	Preface	Chatterjee J.M., Garg H., Thakur R.N.	Chatterjee, J.M., Information Technology Department, Lord Buddha Education Foundation (LBEF), Kathmandu, Nepal; Garg, H., Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Thakur, R.N., Information Technology Department, Lord Buddha Education Foundation (LBEF), Kathmandu, Nepal	A Roadmap for Enabling Industry 4.0 by Artificial Intelligence	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4958	Scaling Up Face Masks Classification Using a Deep Neural Network and Classical Method Inspired Hybrid Technique	Kumar A., Kalia A., Verma K., Sharma A., Kaushal M., Kalia A.	Kumar, A., Department of Computer Science, Himachal Pradesh University, Himachal Pradesh, Shimla, 171005, India; Kalia, A., Department of Computer Science, Himachal Pradesh University, Himachal Pradesh, Shimla, 171005, India; Verma, K., CSE, UIET, Panjab University Chandigarh, Chandigarh, 160014, India; Sharma, A., CSE, UIET, Panjab University Chandigarh, Chandigarh, 160014, India; Kaushal, M., CSED, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kalia, A., CSED, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	KSII Transactions on Internet and Information Systems	2022	19767277
4959	Conceptualizing corporate social responsibility practice: an integration of obligation and opportunity	Sharma A., Singh G.	Sharma, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed-to-be-University), Patiala, India; Singh, G., LM Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed-to-be-University), Patiala, India	Social Responsibility Journal	2022	17471117
4960	Infinite length slotted ultra-wideband monopole antenna using step-feed with band notch characteristics	Ahuja N., Khanna R., Kaur J.	Ahuja, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, J., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Microwave and Wireless Technologies	2022	17590787
4961	Edge scattering limited crosstalk analysis in adjacent multilayer graphene interconnects and its impact on gate oxide reliability	Sidhu R., Rai M.K.	Sidhu, R., Department of Electronics and Communication Engg, Thapar Institute of Engineering and Technology, Patiala, India; Rai, M.K., Department of Electronics and Communication Engg, Thapar Institute of Engineering and Technology, Patiala, India	Circuit World	2022	3056120
4962	Eosin Y mediated photo-catalytic C-H functionalization: C-C and C-S bond formation	Singla D., Luxami V., Paul K.	Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Organic Chemistry Frontiers	2022	20524110
4963	A deep neural network based context-aware smart epidemic surveillance in smart cities	Gill H.K., Sehgal V.K., Verma A.K.	Gill, H.K., CSE/IT, Jaypee University of Information Technology, Solan, India; Sehgal, V.K., CSE/IT, Jaypee University of Information Technology, Solan, India; Verma, A.K., CSE, Thapar University, Patiala, India	Library Hi Tech	2022	7378831
4964	EEG Based Emotion Recognition: A Tutorial and Review	Li X., Zhang Y., Tiwari P., Song D., Hu B., Yang M., Zhao Z., Kumar N., Marttinen P.	Li, X., Qilu University of Technology (Shandong Academy of Sciences), Shandong Computer Science Center (National Supercomputer Center in Jinan), Jinan, China; Zhang, Y., Software Engineering College, Zhengzhou University of Light Industry, Zhengzhou, China, State Key Lab. for Novel Software Technology, Nanjing University, Nanjing, China; Tiwari, P., Department of Computer Science, Aalto University, Finland; Song, D., School of Computer Science and Technology, Beijing Institute of Technology, Beijing, China; Hu, B., Institute of Engineering Medicine, Beijing Institute of Technology, Beijing, China; Yang, M., Qilu University of Technology (Shandong Academy of Sciences), Shandong Computer Science Center (National Supercomputer Center in Jinan), Jinan, China; Zhao, Z., Qilu University of Technology (Shandong Academy of Sciences), Shandong Computer Science Center (National Supercomputer Center in Jinan), Jinan, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India; Marttinen, P., Department of Computer Science, Aalto University, Finland	ACM Computing Surveys	2022	3600300
4965	Image features in machine learning	Bedi A.K., Sunkaria R.K.	Bedi, A.K., Department of Electrical and Instrumentation Engineering, Thapar institute of Engineering and Technology, Patiala, Punjab, India; Sunkaria, R.K., Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India	Machine Learning Algorithms for Signal and Image Processing	2022	
4966	Production of a recyclable nanobiocatalyst to synthesize quinoxalinone derivatives	Budhiraja M., Chudasama B., Ali A., Tyagi V.	Budhiraja, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Chudasama, B., Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India, Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India, Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	RSC Advances	2022	20462069
4967	Performance Evaluation of Novel Piezoelectric Cantilever Beam Structure for Energy Harvesting	Tyagi N., Gaur A.M., Mahajan A.N.	Tyagi, N., Department of Electronics and Communication Engineering, MAIT, Maharaja Agrasen University, Himachal Pradesh 174103, India; Gaur, A.M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab 147004, India; Mahajan, A.N., Department of Electronics and Communication Engineering, MAIT, Maharaja Agrasen University, Himachal Pradesh 174103, India	Trends in Sciences	2022	27740226
4968	Bibliometric analysis of rumor detection via web of science from 1989 to 2021	Rani N., Bhardwaj A.K., Das P., Sharma A.	Rani, N., Department of Engineering and Technology, Chitkara University, Chandigarh, India; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India; Das, P., Department of Computer Applications, Chitkara University, Chandigarh, India; Sharma, A., Punjab State Aeronautical Engineering College, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4969	Tyrosinase-functionalized gold nanoparticle-tailored ultrasensitive nanosensing probe for hazardous and nutritional phenolic compounds	Dhiman J., Vaid K., Johns T., Maurya R., Arora M., Negi A., Gupta R., Misra M., Kim K.-H., Kumar V.	Dhiman, J., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India; Vaid, K., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India, Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh, 160014, India, CSIR-Central Scientific Instruments Organisation, Sector 30-C, Chandigarh, 160030, India; Johns, T., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India; Maurya, R., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India; Arora, M., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India; Negi, A., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India; Gupta, R., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India; Misra, M., Mechatronics Engineering Department, School of Automobile, Mechanical, and Mechatronics, Manipal University, Jaipur, India; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-ro, Seoul, 04763, South Korea; Kumar, V., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab 140306, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sensors and Actuators B: Chemical	2022	9254005
4970	Approximation properties of complex genuine α -Bernstein-Durrmeyer operators	Goyal M.	Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mathematical Methods in the Applied Sciences	2022	1704214
4971	Deep Learning-Based Network Traffic Prediction for Secure Backbone Networks in Internet of Vehicles	Wang X., Nie L., Ning Z., Guo L., Wang G., Gao X., Kumar N.	Wang, X., Institute of Intelligent Communication and Network Security, School of Communication and Information Engineering, Chongqing University of Posts and Telecommunications, No. 2 Chongwen Road, Chongqing, 400065, China; Nie, L., School of Electronics and Information, Northwestern Polytechnical University, No. 1 Dongxiang Road, Xi'an, 710072, China; Ning, Z., Institute of Intelligent Communication and Network Security, School of Communication and Information Engineering, Chongqing University of Posts and Telecommunications, No. 2 Chongwen Road, Chongqing, 400065, China; Guo, L., Institute of Intelligent Communication and Network Security, School of Communication and Information Engineering, Chongqing University of Posts and Telecommunications, No. 2 Chongwen Road, Chongqing, 400065, China; Wang, G., Chongqing Key Laboratory of Computational Intelligence, Chongqing University of Posts and Telecommunications, No. 2 Chongwen Road, Chongqing, 400065, China; Gao, X., Chongqing Key Laboratory of Image Cognition, Chongqing University of Posts and Telecommunications, No. 2 Chongwen Road, Chongqing, 400065, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology Patiala, Bhadson Road, India	ACM Transactions on Internet Technology	2022	15335399
4972	Rice Husk-Derived Carbon Quantum Dots-Based Dual-Mode Nanoprobe for Selective and Sensitive Detection of Fe ³⁺ and Fluoroquinolones	Kundu A., Maity B., Basu S.	Kundu, A., School of Chemistry and Biochemistry, SRF-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Biomaterials Science and Engineering	2022	23739878
4973	Mechanical performance and phase analysis of an eco-friendly alkali-activated binder made with sludge waste and blast-furnace slag	Duan W., Zhuge Y., Chow C.W.K., Keegan A., Liu Y., Siddique R.	Duan, W., University of South Australia, Sustainable Infrastructure and Resource Management (SIRM), UniSA STEM SA 5000, Australia; Zhuge, Y., University of South Australia, Sustainable Infrastructure and Resource Management (SIRM), UniSA STEM SA 5000, Australia; Chow, C.W.K., University of South Australia, Sustainable Infrastructure and Resource Management (SIRM), UniSA STEM SA 5000, Australia; Keegan, A., University of South Australia, Sustainable Infrastructure and Resource Management (SIRM), UniSA STEM SA 5000, Australia, South Australian Water Corporation, Adelaide, SA 5000, Australia; Liu, Y., University of South Australia, Sustainable Infrastructure and Resource Management (SIRM), UniSA STEM SA 5000, Australia; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Cleaner Production	2022	9596526
4974	Remnant Life Assessment of High Temperature Tubes in 250MW Boiler	Vikash O., Sethi A.K., Sharma S.	Vikash, O., Irc Engineering Services Pvt Ltd., Nehru Place, New Delhi, India; Sethi, A.K., Galgotias College of Engineering & Technology, Greater Noida, India; Sharma, S., Thapar Institute of Engineering & Technology, Patiala, India	Advances in Transdisciplinary Engineering	2022	
4975	A post-quantum lattice based lightweight authentication and code-based hybrid encryption scheme for IoT devices	Kumari S., Singh M., Singh R., Tewari H.	Kumari, S., Assistant Professor, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, M., Professor and Dean of Academics, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Lecturer in Cyber Security, School of Computing, Engineering & Physical Sciences, University of the West of Scotland, Lanarkshire Campus, Scotland G72 0LH; Tewari, H., Assistant Professor, School of Computer Science and Statistics, Trinity College, Dublin, Ireland	Computer Networks	2022	13891286
4976	Salt-Induced Dissolution of Protein Aggregates	Singla D., Bhattacharya M.	Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Thapar Technology Campus, Bhadson Road, Punjab, Patiala, 147004, India; Bhattacharya, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Thapar Technology Campus, Bhadson Road, Punjab, Patiala, 147004, India	Journal of Physical Chemistry B	2022	15206106

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4977	Advancement in magnetic hyperthermia-based targeted therapy for cancer treatment	Srivastava N., Chudasama B., Baranwal M.	Srivastava, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Biointerphases	2022	19348630
4978	Carbon coated titanium dioxide (CC-TiO ₂) as an efficient material for photocatalytic degradation	Kumar R., Choudhary R., Kolay S., Pandey O.P., Singh K., Bhargava P.	Kumar, R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India, Centre for Energy Studies, Indian Institute of Technology Delhi, New Delhi, 110016, India; Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kolay, S., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhargava, P., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India	Energy Advances	2022	27531457
4979	RAD@home citizen science discovery of an active galactic nucleus spewing a large unipolar radio bubble on to its merging companion galaxy	Hota A., Dabhade P., Vaddi S., Konar C., Pal S., Gulati M., Stalin C.S., Avinash C., Kumar A., Rajoria M., Purohit A.	Hota, A., #EAstroLab, UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Santacruz-East, Mumbai, 400098, India, RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India; Dabhade, P., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India, Observatoire de Paris, LERMA, College de France, Psl University, Sorbonne University, Paris, F-75014, France; Vaddi, S., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India, Arecibo Observatory, Naic, HC3 Box 53995, Arecibo, 00612, United States; Konar, C., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India, Amity Institute of Applied Sciences, Amity University Uttar Pradesh, Sector-125, Noida, 201303, India; Pal, S., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India, Midnapore City College, West Bengal, Kutturia, Bhadutala, Paschim Medinipur, 721129, India; Gulati, M., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India, School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Stalin, C.S., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India, Indian Institute of Astrophysics, Koramangala II Block, Bangalore, 560 034, India; Avinash, C., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India; Kumar, A., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India; Rajoria, M., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India; Purohit, A., RAD@home Astronomy Collaborator, Kharghar, Navi Mumbai, 410210, India	Monthly Notices of the Royal Astronomical Society: Letters	2022	17453925
4980	FCNN: Fusion-based underwater image enhancement using multilayer convolution neural network	Verma G., Kumar M., Raikwar S.	Verma, G., GLA University, Department of Computer Engineering and Applications, Uttar Pradesh, Mathura, India; Kumar, M., GLA University, Department of Computer Engineering and Applications, Uttar Pradesh, Mathura, India; Raikwar, S., TIET University, Punjab, Patiala, India	Journal of Electronic Imaging	2022	10179909
4981	Investigation of Surface Roughness in Novel Magnetorheological Finishing of the Internal Hemispherical-Shaped Acetabular Cup Workpieces	Arora K., Paswan S.K., Singh A.K.	Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Manufacturing Science and Engineering	2022	10871357
4982	Similarity solution for isothermal flow behind the magnetogasdynamic cylindrical shock wave in a rotating non-ideal gas with the effect of the gravitational field	Chauhan S., Singh D., Arora R.	Chauhan, S., Department of Applied Mathematics and Scientific Computing, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Singh, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, R., Department of Applied Mathematics and Scientific Computing, Indian Institute of Technology Roorkee, Roorkee, 247667, India	Physics of Fluids	2022	10706631
4983	Effect of Sr-Doping on Structural and Magnetic Properties of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Nanoparticles	Kaur Y., Chudasama B.	Kaur, Y., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nano	2022	17932920
4984	Application of RSM for Bioremoval of Methylene Blue Dye from Industrial Wastewater onto Sustainable Walnut Shell (<i>Juglans regia</i>) Biomass	Kumari S., Rajput V.D., Minkina T., Rajput P., Sharma P., Verma A.K., Agarwal S., Garg M.C.	Kumari, S., Amity Institute of Environmental Science (AIES), Amity University Uttar Pradesh, Sector-125, Noida, 201313, India; Rajput, V.D., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Minkina, T., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Rajput, P., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Sharma, P., Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147005, India; Agarwal, S., Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, 211004, India; Garg, M.C., Amity Institute of Environmental Science (AIES), Amity University Uttar Pradesh, Sector-125, Noida, 201313, India	Water (Switzerland)	2022	20734441

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4985	A Particle Swarm Optimization Technique Tuned TID Controller for Frequency and Voltage Regulation with Penetration of Electric Vehicles and Distributed Generations	Shukla H., Nikolovski S., Raju M., Rana A.S., Kumar P.	Shukla, H., Electrical Engineering Department, Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering, Computer Science and Information Technology, J. J. Strossmayer University of Osijek, K. Trpimira 2B, Osijek, HR-31000, Croatia; Raju, M., Electrical Engineering Department, Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Rana, A.S., Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli, Tiruchirappalli, 620015, India; Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2022	19961073
4986	Algorithm for multiple attribute decision-making using T-spherical fuzzy Maclaurin symmetric mean operator	Garg H., Ahmad A., Ullah K., Mahmood T., Ali Z.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India; Ahmad, A., Department of Mathematics, Riphah Institute of Computing and Applied Sciences (RICAS), Riphah International University (Lahore Campus), Lahore, 54000, Pakistan; Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences (RICAS), Riphah International University (Lahore Campus), Lahore, 54000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan; Ali, Z., Department of Mathematics and Statistics, International Islamic University, Islamabad, 44000, Pakistan	Iranian Journal of Fuzzy Systems	2022	17350654
4987	Isolation of Alpha Amylase-Producing Bacteria from Local Region of Ambala and Production of Amylase Under Optimized Factors Using Solid-State Fermentation	Mittal A., Joshi M., Rath S.K., Singh D., Dwibedi V.	Mittal, A., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Joshi, M., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Rath, S.K., School of Pharmaceuticals and Population Health Informatics, Faculty of Pharmacy, DIT University, Uttarakhand, Dehradun, 248009, India; Singh, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dwibedi, V., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India	Current Microbiology	2022	3438651
4988	Mixed Game-Based Aol Optimization for Combating COVID-19 With AI Bots	Yang Y., Wang W., Yin Z., Xu R., Zhou X., Kumar N., Alazab M., Gadekallu T.R.	Yang, Y., College of Communications Engineering, Army Engineering University of Pla, Nanjing, 210000, China; Wang, W., Department of Computer Science, City University of Hong Kong, Hong Kong, Hong Kong, Zhejiang Laboratory, Zhejiang, Hangzhou, 310000, China; Yin, Z., Department of Computer Science, City University of Hong Kong, Hong Kong, Hong Kong; Xu, R., College of Communications Engineering, Army Engineering University of Pla, Nanjing, 210000, China; Zhou, X., Faculty of Data Science, Shiga University, Hikone, 522-8522, Japan, Riken Center for Advanced Intelligence Project, Tokyo, 103-0027, Japan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Alazab, M., College of Engineering, It and Environment, Charles Darwin University, Darwin, NT 0810, Australia; Gadekallu, T.R., School of Information Technology and Engineering, Vellore Institute of Technology, Tamil Nadu, Vellore, 632014, India	IEEE Journal on Selected Areas in Communications	2022	7338716
4989	Identification and Annotation of Peptide Allergens in Prunus dulcis	Singh A., Upadhyay A.K.	Singh, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	International Journal of Peptide Research and Therapeutics	2022	15733149
4990	Surface-based brain morphometry in schizophrenia vs. cannabis-induced psychosis: A controlled comparison	Ghosh A., Kaur S., Shah R., Oomer F., Avasthi A., Ahuja C.K., Basu D., Nehra R., Khandelwal N.	Ghosh, A., Drug De-addiction and Treatment Centre, Department of Psychiatry, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Kaur, S., Thapar Institute of Engineering and Technology, Punjab, India; Shah, R., Drug De-addiction and Treatment Centre, Department of Psychiatry, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Oomer, F., Chusefarm Hospital, Barnet, Enfield & Haringey Mental Health Trust, Enfield, United Kingdom; Avasthi, A., Department of Psychiatry, Postgraduate Institute of Medical Education & Research, Chandigarh, India; Ahuja, C.K., Department of Radio-diagnosis and Imaging, Postgraduate Institute of Medical Education & Research, Chandigarh, India; Basu, D., Chusefarm Hospital, Barnet, Enfield & Haringey Mental Health Trust, Enfield, United Kingdom; Nehra, R., Department of Psychiatry, Postgraduate Institute of Medical Education & Research, Chandigarh, India; Khandelwal, N., Department of Radio-diagnosis and Imaging, Postgraduate Institute of Medical Education & Research, Chandigarh, India	Journal of Psychiatric Research	2022	223956
4991	A multi-criteria framework for addressing digitalization solutions of medical system under interval-valued T-spherical fuzzy information	Yang Z., Zhang T., Garg H., Venkatchalam K.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Zhang, T., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, India; Venkatchalam, K., Department of Applied Cybernetics, Faculty of Science, University of Hradec Králové, Hradec Králové, 50003, Czech Republic	Applied Soft Computing	2022	15684946
4992	Dynamic disorder in a coupled two-lane exclusion process with Langmuir kinetics	Garg S., Dhiman I.	Garg, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Dhiman, I., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	International Journal of Modern Physics C	2022	1291831

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
4993	Thermally induced fracture analysis of CNT reinforced FG structures with multiple discontinuities using XIGA	Yadav A., Bhardwaj G., Godara R.K.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala-147001, Punjab, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala-147001, Punjab, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala-147001, Punjab, India	Engineering Fracture Mechanics	2022	137944
4994	Microwave assisted hydrothermal synthesis of N doped graphene for supercapacitor applications	Ajravat K., Rajput S., Brar L.K.	Ajravat, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajput, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Diamond and Related Materials	2022	9259635
4995	LaMeta: An efficient locality aware metadata management technique for an ultra-large distributed storage system	Singh H.J., Bawa S.	Singh, H.J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed-to-be-University), Punjab, Patiala, 147004, India; Bawa, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed-to-be-University), Punjab, Patiala, 147004, India	Journal of King Saud University - Computer and Information Sciences	2022	13191578
4996	The effect of chaotic mapping on naked mole-rat algorithm for energy efficient smart city wireless sensor network	Singh S., Singh U.	Singh, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India	Computers and Industrial Engineering	2022	3608352
4997	Enhanced combined assimilative and bound phosphorus uptake in concurrence with nitrate removal in pre-anoxic cyclic sequencing batch reactor	Khursheed A., Ali M., Munshi F.M.A., Alali A.F., Kamal M.A., Almohana A.I., Alrehaili O., Gaur R.Z., Tyagi V.K., Khan A.A., Goel G.	Khursheed, A., Department of Civil Engineering, College of Engineering, KSU, Riyadh, Saudi Arabia, Department of Civil Engineering, Z.H. College of Engineering & Technology, AMU, Aligarh, India; Ali, M., Department of Civil Engineering, Indian Institute of Technology, Roorkee, India; Munshi, F.M.A., Department of Civil Engineering, College of Engineering, KSU, Riyadh, Saudi Arabia; Alali, A.F., Department of Civil Engineering, College of Engineering, KSU, Riyadh, Saudi Arabia; Kamal, M.A., Department of Civil Engineering, College of Engineering, KSU, Riyadh, Saudi Arabia; Almohana, A.I., Department of Civil Engineering, College of Engineering, KSU, Riyadh, Saudi Arabia; Alrehaili, O., Department of Civil Engineering, College of Engineering, KSU, Riyadh, Saudi Arabia; Gaur, R.Z., Department of Civil and Environmental Engineering, University of South Florida, United States; Tyagi, V.K., Environmental Hydrology Division, National Institute of Hydrology, Roorkee, 247667, India; Khan, A.A., Department of Civil Engineering, Jamia Millia Islamia (A Central University), New Delhi, India; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Aerospace, Transport and Manufacturing, Cranfield UniversityMK430AL, United Kingdom	Environmental Technology and Innovation	2022	23521864
4998	Single shot polarimetric characterization of the polymer based flexible polyethylene terephthalate substrate	Singh G.	Singh, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Polymer Engineering and Science	2022	323888
4999	Analysis of Multilayer Graphene Nanoribbon Interconnects Constrained by Structural Edge Roughness and Corrugated Surface Dielectric	Upadhyay A., Rai M.K., Khanna R.	Upadhyay, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica Status Solidi (A) Applications and Materials Science	2022	18626300
5000	Hybrid deep learning techniques for estimation of daily crop evapotranspiration using limited climate data	Sharma G., Singh A., Jain S.	Sharma, G., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Singh, A., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering & Technology, India	Computers and Electronics in Agriculture	2022	1681699
5001	Application of once-through plug flow reactor in the fixed mode for the treatment of pharmaceutical drug-Phenazone using waste-driven visibly active composite	Talwar S., Verma A., Sangal V.K., Štangar U.L., Sillanpää M., Al-Othman A.A.S.	Talwar, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia; Sillanpää, M., Chemistry Department, College of Science, King Saud University, Saudi Arabia; Al-Othman, A.A.S., Department of Agricultural Engineering, College of Food Sciences and Agriculture, King Saud University, Saudi Arabia	Process Safety and Environmental Protection	2022	9575820
5002	Polydopamine coating on additive manufacturing-based poly lactic acid structures with controllable parameters for enhanced mechanical properties: An experimental investigation	Sharma S., Mudgal D., Gupta V.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Polymer Engineering and Science	2022	323888
5003	Magnetic Properties of Two-Line Ferrihydrite Nanoparticles	Rani C., Tiwari S.D.	Rani, C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica Status Solidi (B) Basic Research	2022	3701972

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5004	Plant Growth Promotion and Selenium Accumulation in Zea mays by Rhizobacteria Isolated from Natural Seleniferous Soils	Kaur T., Chadha A., Prakash N.T., Reddy M.S.	Kaur, T., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Chadha, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Prakash, N.T., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Clean - Soil, Air, Water	2022	18630650
5005	High-performance sub-1 V CMOS voltage reference with low supply voltage	Thakur A., Pandey R., Rai S.K.	Thakur, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India	AEU - International Journal of Electronics and Communications	2022	14348411
5006	ELP: Link prediction in social networks based on ego network perspective	Mishra S., Singh S.S., Kumar A., Biswas B.	Mishra, S., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, India; Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Department of Computer Science and Engineering, UPES University, Dehradun, India; Biswas, B., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, India	Physica A: Statistical Mechanics and its Applications	2022	3784371
5007	Visible-light-induced photocatalytic response of easily recoverable Mn2O3/SiO2 monolith in centimeter-scale towards degradation of ofloxacin: Performance evaluation and product analysis	Sharma S., Basu S.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Chemosphere	2022	456535
5008	Industrial vision and automation	Mulaveesala R., Arora V., Dua G., Morello R., Vavilov V.	Mulaveesala, R., InfraRed Imaging Laboratory (IRIL), Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Arora, V., InfraRed Vision & Automation Pvt. Ltd, Ward No 8, Sun City, Punjab, Rupnagar, 140001, India; Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Rd, Adarsh Nagar, Prem Nagar Punjab, Patiala, 147004, India; Morello, R., Scientific Director of Advanced Thermography Center, Department of Information Engineering, Infrastructure and Sustainable Energy (DIIES), University 'Mediterranea' of Reggio Calabria, Via Graziella (Loc. Feo di Vito), Reggio Calabria, 89122, Italy; Vavilov, V., Tomsk Polytechnic University, Tomsk, Office 404, Building No 18, 7, Savinyh Street, Tomsk, Russian Federation	Measurement Science and Technology	2022	9570233
5009	RNA splicing: a dual-edged sword for hepatocellular carcinoma	Kashyap A., Tripathi G., Tripathi A., Rao R., Kashyap M., Bhat A., Kumar D., Rajhans A., Kumar P., Chandrashekar D.S., Mahmood R., Husain A., Zayed H., Bharti A.C., Kashyap M.K.	Kashyap, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Tripathi, G., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Manesar (Gurugram), Haryana (HR), Panchgaon, 122413, India; Tripathi, A., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Manesar (Gurugram), Haryana (HR), Panchgaon, 122413, India; Rao, R., School of Life & Allied Health Sciences, The Glocal University, UP, Saharanpur, India; Kashyap, M., Facultad de Ingeniería Y Tecnología, Universidad San Sebastián, Sede Concepción, Concepción, Chile, National Institute of Immunology, Aruna Asaf Ali Marg, Delhi, New Delhi, 110067, India; Bhat, A., Molecular Oncology Laboratory, Department of Zoology, University of Delhi (North Campus), New Delhi, 110007, India; Kumar, D., ThermoFisher Scientific, Carlsbad, CA 92008, United States; Rajhans, A., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Manesar (Gurugram), Haryana (HR), Panchgaon, 122413, India; Kumar, P., School of Life & Allied Health Sciences, The Glocal University, UP, Saharanpur, India; Chandrashekar, D.S., Molecular and Cellular Pathology, Department of Pathology, University of Alabama at Birmingham, Birmingham, AL, United States; Mahmood, R., Department of Biotechnology and Bioinformatics, Kuvempu University, Shankaragatta (Shimoga), Karnataka, Jnanasahyadri, 577451, India; Husain, A., Centre for Science & Society, Indian Institute of Science Education and Research (IISER), Bhopal, India, Innovation and Incubation Centre for Entrepreneurship (IICE), Indian Institute of Science Education and Research (IISER), Bhopal, India; Zayed, H., Department of Biomedical Sciences, College of Health and Sciences, Qatar University, QU Health, Doha, Qatar; Bharti, A.C., Molecular Oncology Laboratory, Department of Zoology, University of Delhi (North Campus), New Delhi, 110007, India; Kashyap, M.K., Amity Stem Cell Institute, Amity Medical School, Amity University Haryana, Manesar (Gurugram), Haryana (HR), Panchgaon, 122413, India, Molecular Oncology Laboratory, Department of Zoology, University of Delhi (North Campus), New Delhi, 110007, India	Medical Oncology	2022	13570560
5010	A novel signal conditioning system for SODAR	Chourey P., Singh N.J., Soni K., Agarwal R.	Chourey, P., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, CSIR-Advanced Materials and Processes Research Institute, Madhya Pradesh, Bhopal, 462026, India; Singh, N.J., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Soni, K., CSIR-Advanced Materials and Processes Research Institute, Madhya Pradesh, Bhopal, 462026, India; Agarwal, R., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Measurement Science and Technology	2022	9570233

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5011	Mehar approach to solve fuzzy linear fractional transportation problems	Bhatia T.K., Kumar A., Sharma M.K.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India	Soft Computing	2022	14327643
5012	Parameter estimation of three diode solar PV cell using chaotic dragonfly algorithm	Singla M.K., Nijhawan P., Oberoi A.S.	Singla, M.K., Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Thapar Institute of Engineering and Technology, Patiala, India	Soft Computing	2022	14327643
5013	Genetic polymorphisms in the mismatch repair pathway (MMR) genes contribute to hematological and gastrointestinal toxicity in North Indian lung cancer patients treated with platinum-based chemotherapy	Singh S., Singh N., Sharma S.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Punjab, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Biochemical and Molecular Toxicology	2022	10956670
5014	Hund's coupling and electronic anisotropy in the spin-density wave state of iron pnictides	Goyal G., Singh D.K.	Goyal, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physica B: Condensed Matter	2022	9214526
5015	Crystallization kinetics study of magnesium vanadate glasses using non-isothermal method	Dua V., Singh K.	Dua, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Non-Crystalline Solids	2022	223093
5016	Throughput Guarantees for Multi-Cell Wireless Powered Communication Networks With Non-Orthogonal Multiple Access	Huang L., Nan R., Chi K., Hua Q., Yu K., Kumar N., Guizani M.	Huang, L., School of Computer Science and Technology, Zhejiang University of Technology, Zhejiang, 310023, China; Nan, R., School of Computer Science and Technology, Zhejiang University of Technology, Zhejiang, 310023, China; Chi, K., School of Computer Science and Technology, Zhejiang University of Technology, Zhejiang, 310023, China; Hua, Q., Computer School, Hubei University of Arts and Science, Xiangyang, 441000, China; Yu, K., Graduate School of Science and Engineering, Hosei University, Tokyo, 184-8584, Japan, Riken Center for Advanced Intelligence Project, Riken, Tokyo, 103-0027, Japan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan, King Abdul Aziz University, Jeddah, 22254, Saudi Arabia; Guizani, M., Machine Learning Department, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, United Arab Emirates	IEEE Transactions on Vehicular Technology	2022	189545
5017	Fully Homomorphic Enabled Secure Task Offloading and Scheduling System for Transport Applications	Lakhan A., Mohammed M.A., Garcia-Zapirain B., Nedoma J., Martinek R., Tiwari P., Kumar N.	Lakhan, A., Department of Computer Science, Dawood University of Engineering and Technology, Karachi, 74800, Pakistan; Mohammed, M.A., College of Computer Science and Information Technology, University of Anbar, Anbar, 31001, Iraq; Garcia-Zapirain, B., EVIDA Laboratory, University of Deusto, Bilbao, 48007, Spain; Nedoma, J., Department of Telecommunications, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic; Martinek, R., Department of Cybernetics and Biomedical Engineering, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic; Tiwari, P., Department of Computer Science, Aalto University, Espoo, 02150, Finland; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Transactions on Vehicular Technology	2022	189545
5018	Computational Medical Image Reconstruction Techniques: A Comprehensive Review	Gothwal R., Tiwari S., Shivani S.	Gothwal, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Shivani, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Archives of Computational Methods in Engineering	2022	11343060
5019	EGCG and catechin relative to green tea extract differentially modulate the gut microbial metabolome and liver metabolome to prevent obesity in mice fed a high-fat diet	Sun X., Dey P., Bruno R.S., Zhu J.	Sun, X., Human Nutrition Program, Department of Human Sciences, The Ohio State University, Columbus, OH, United States, Comprehensive Cancer Center, The Ohio State University, Columbus, OH, United States; Dey, P., Human Nutrition Program, Department of Human Sciences, The Ohio State University, Columbus, OH, United States, Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, India; Bruno, R.S., Human Nutrition Program, Department of Human Sciences, The Ohio State University, Columbus, OH, United States; Zhu, J., Human Nutrition Program, Department of Human Sciences, The Ohio State University, Columbus, OH, United States, Comprehensive Cancer Center, The Ohio State University, Columbus, OH, United States	Journal of Nutritional Biochemistry	2022	9552863

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5020	An efficient handover mechanism for 5G networks using hybridization of LSTM and SVM	Kaur G., Goyal R.K., Mehta R.	Kaur, G., Thapar Institute of Engineering and Technology, Patiala, India; Goyal, R.K., Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2022	13807501
5021	A Bidirectional Five-Level Buck PFC Rectifier With Wide Output Range for EV Charging Application	Jain A., Gupta K.K., Jain S.K., Bhatnagar P.	Jain, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhatnagar, P., IES College of Technology, Bhopal, 462008, India	IEEE Transactions on Power Electronics	2022	8858993
5022	Guest Editorial: Special Section on Edge Intelligence for Industrial Internet of Things	Garg S., Rathee G., Kumar N., Rawat D.B.	Garg, S., École de Technologie Supérieure, Montréal, QC H3C 1K3, Canada; Rathee, G., Netaji Subhas University of Technology, New Delhi, 110078, India; Kumar, N., Thapar Institute of Engineering Technology, Patiala, 147004, India; Rawat, D.B., Howard University, Washington, DC 20059, United States	IEEE Transactions on Industrial Informatics	2022	15513203
5023	Interleukin Receptor Antagonists and Janus Kinase Inhibitors Repurposed for Treatment of COVID-19	Tandon N., Luxami V., Tandon R., Paul K.	Tandon, N., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tandon, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Mini-Reviews in Medicinal Chemistry	2022	13895575
5024	Systematic study of probable target-projectile combinations for the synthesis of Z = 120 isotopes using the Skyrme energy density formalism	Kaur S., Sharma M.K., Kumar R.	Kaur, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nuclear Physics A	2022	3759474
5025	Machine learning based analysis of learner-centric teaching of punjabi grammar with multimedia tools in rural indian environment	Kumar V., Dhingra G., Saxena N., Malhotra R.	Kumar, V., Thapar Institute of Engineering & Technology, Punjab, India; Dhingra, G., Plaksha University, Punjab, India; Saxena, N., Thapar Institute of Engineering & Technology, Punjab, India; Malhotra, R., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	Multimedia Tools and Applications	2022	13807501
5026	Deep CNN based online image deduplication technique for cloud storage system	Kaur R., Bhattacharya J., Chana I.	Kaur, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India; Bhattacharya, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India; Chana, I., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5027	Multi-criteria decision making of water resource management problem (in Agriculture field, Purulia district) based on possibility measures under generalized single valued non-linear bipolar neutrosophic environment	Garai T., Garg H.	Garai, T., Department of Mathematics, Syamsundar College, Syamsundar, Purba Bardhaman, West Bengal 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Expert Systems with Applications	2022	9574174
5028	TS-Fuzzy Logic Based Power Quality Improvement of DG-BESS Based Standalone System	Sharma M., Nijhawan P., Sinha A.	Sharma, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Sinha, A., Electrical and Electronics Engineering Department, Bakhtiyarpur College of Engineering, Bihar, Bakhtiyarpur, Patna, 800024, India	Journal of Electrical Engineering and Technology	2022	19750102
5029	Machine learning approach for software defect prediction using multi-core parallel computing	Parashar A., Kumar Goyal R., Kaushal S., Kumar Sahana S.	Parashar, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar Goyal, R., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaushal, S., Computer Science and Engineering, University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Kumar Sahana, S., Computer Science and Engineering, Birla Institute of Technology Mesra, Ranchi, India	Automated Software Engineering	2022	9288910

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5030	Cyanobacteria blue-green algae prediction enhancement using hybrid machine learning–based gamma test variable selection and empirical wavelet transform	Heddam S., Yaseen Z.M., Falah M.W., Goliatt L., Tan M.L., Sa’adi Z., Ahmadianfar I., Saggi M., Bhatia A., Samui P.	Heddam, S., Laboratory of Research in Biodiversity Interaction Ecosystem and Biotechnology, Hydraulics Division, Agronomy Department, Faculty of Science, University, 20 Août 1955, Route El Hadaik, BP 26, Skikda, Algeria; Yaseen, Z.M., Department of Earth Sciences and Environment, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, Selangor, Bangi, 43600, Malaysia, USQ’s Advanced Data Analytics Research Group, School of Mathematics Physics and Computing, University of Southern Queensland, QLD, Toowoomba, 4350, Australia, New Era and Development in Civil Engineering Research Group, Scientific Research Center, Al-Ayen University, Thi-Qar, 64001, Iraq; Falah, M.W., Building and Construction Engineering Technology Department, AL-Mustaqbal University College, Hillah, 51001, Iraq; Goliatt, L., Computational Modeling Program, Federal University of Juiz de Fora, MG, Juiz de Fora, Brazil; Tan, M.L., Geoinformatic Unit, Geography Section, School of Humanities, Universiti Sains Malaysia, Penang, 11800, Malaysia; Sa’adi, Z., Centre for Environmental Sustainability and Water Security (IPASA), School of Civil Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM, Johor, Sekudai, Malaysia; Ahmadianfar, I., Department of Civil Engineering, Behbahan Khatam Alanbia University of Technology, Behbahan, Iran; Saggi, M., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, A., Department of computers science and engineering, Thapar University, Patiala, India; Samui, P., Department of Civil Engineering, National Institute of Technology (NIT), Bihar, Patna, 800005, India	Environmental Science and Pollution Research	2022	9441344
5031	Cyber–physical testbed for Wide Area Measurement System employing IEC 61850 and IEEE C37.118 based communication	Chawla A., Aftab M.A., Hussain S.M.S., Panigrahi B.K., Ustun T.S.	Chawla, A., Indian Institute of Technology Delhi, New Delhi, 110016, India; Aftab, M.A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hussain, S.M.S., National University of Singapore, Singapore, 119077, Singapore; Panigrahi, B.K., Indian Institute of Technology Delhi, New Delhi, 110016, India; Ustun, T.S., Fukushima Renewable Energy Institute, AIST, Fukushima, 9630215, Japan	Energy Reports	2022	23524847
5032	Online management and assessment of power quality issues through smart metering in smart grid architecture	Jain A., Bhullar S.	Jain, A., Department of Electrical Engineering, SOT, Pandit Deendayal Energy University, Gujarat, Gandhinagar, India; Bhullar, S., Department of Electrical & Instrumentation Engineering, Thapar University, Punjab, Patiala, India	Energy Reports	2022	23524847
5033	Network performance evaluation of smart distribution systems using smart meters with TCP/IP communication protocol	Jain A., Bhullar S.	Jain, A., Department of Electrical Engineering, SOT, Pandit Deendayal Energy University, Gujarat, Gandhinagar, India; Bhullar, S., Department of Electrical & Instrumentation Engineering, Thapar University, Punjab, Patiala, India	Energy Reports	2022	23524847
5034	A novel design approach for indoor environmental quality based on a multiagent system for intelligent buildings in a smart city: Toward occupant’s comfort	Verma A., Prakash S., Kumar A., Aghamohammadi N.	Verma, A., Electrical Engineering Department, Institute of Engineering and Technology, Lucknow, India; Prakash, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., Department of Energy Efficiency, Council of Scientific and Industrial Research – Central Building Research Institute Roorkee (CSIR-CBRI), Roorkee, India; Aghamohammadi, N., Department of Social and Preventive Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia, Centre for Energy Sciences, University of Malaya, Kuala Lumpur, Malaysia	Environmental Progress and Sustainable Energy	2022	19447442
5035	Face mask detection in COVID-19: a strategic review	Vibhuti, Jindal N., Singh H., Rana P.S.	Vibhuti, Research Scholar, ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jindal, N., Faculty, ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H., Faculty, CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Faculty, CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5036	Treatment of textile industry wastewater by using high-performance forward osmosis membrane tailored with alpha-manganese dioxide nanoparticles for fertigation	Jain H., Kumar A., Verma A.K., Wadhwa S., Rajput V.D., Minkina T., Garg M.C.	Jain, H., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector 125, Uttar Pradesh, Noida, 201313, India; Kumar, A., Department of Hydrology, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147005, India; Wadhwa, S., Department of Chemistry, School of Engineering, University of Petroleum & Energy Studies, Bidholi Campus, Uttarakhand, Dehradun, 248007, India; Rajput, V.D., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Minkina, T., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Garg, M.C., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector 125, Uttar Pradesh, Noida, 201313, India	Environmental Science and Pollution Research	2022	9441344
5037	Influence of Dual Range Particle Size on Wear and Friction Properties of Ilmenite Reinforced Aluminium Metal Matrix Composite	Singhal V., Pandey O.P.	Singhal, V., Metallurgy Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Mechanical Engineering Department, IMS Engineering College, Uttar Pradesh, Dasna, Ghaziabad, 201001, India; Pandey, O.P., Metallurgy Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Silicon	2022	1876990X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5038	An improved approach for single and multiple copy-move forgery detection and localization in digital images	Kaur N., Jindal N., Singh K.	Kaur, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5039	A Model for Container Inventory with a Trapezoidal Bipolar Neutrosophic Number	Garg H., Rajeswari S., Sugapriya C., Nagarajan D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Rajeswari, S., Department of Mathematics, Queen Mary's College, University of Madras, Tamil Nadu, Chennai, India; Sugapriya, C., Department of Mathematics, Queen Mary's College, University of Madras, Tamil Nadu, Chennai, India; Nagarajan, D., Department of Mathematics, Rajalakshmi Institute of Technology, Tamil Nadu, Chennai, India	Arabian Journal for Science and Engineering	2022	2193567X
5040	Design and Analysis of Recessed Double Gate Junctionless Field-Effect-Transistor Based Digital Standard Cells	Kumar S., Chatterjee A.K., Pandey R.	Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Chatterjee, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Silicon	2022	1876990X
5041	A Transient-Enhanced Low-Power Standard-Cell-Based Digital LDO	Sood L., Agarwal A.	Sood, L., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Arabian Journal for Science and Engineering	2022	2193567X
5042	Retinex-Centered Contrast Enhancement Method for Histopathology Images with Weighted CLAHE	Rao K., Bansal M., Kaur G.	Rao, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Arabian Journal for Science and Engineering	2022	2193567X
5043	Performance Comparison of single-slope solar still loaded with various nanofluids	Dhindsa G.S., Kumar V., Mittal M.K., Sokhal G.S., Khalilpoor N., Sharifpur M., Issakhov A., Tonk R.	Dhindsa, G.S., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Kumar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sokhal, G.S., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Khalilpoor, N., Department of Energy Engineering, Graduate School of the Environment and Energy, Science and Research Branch, Islamic Azad University, Tehran, Iran; Sharifpur, M., Department of Mechanical and Aeronautical Engineering, Clean Energy Research Group, University of Pretoria, Hatfield, Pretoria, South Africa; Department of Medical Research, China Medical University Hospital, China Medical University, Taichung, Taiwan; Issakhov, A., Faculty of Mechanics and Mathematics, Department of Mathematical and Computer Modelling, Al-Farabi Kazakh National University, Almaty, Kazakhstan; Tonk, R., Department of Mechanical Engineering, Chandigarh University, Mohali, India	Energy Science and Engineering	2022	20500505
5044	Integrated Blockchain and Cloud Computing Systems: A Systematic Survey, Solutions, and Challenges	Zou J., He D., Zeadally S., Kumar N., Wang H., Choo K.R.	Zou, J., School of Cyber Science and Engineering, Wuhan University, Shanghai Key Laboratory of Privacy-Preserving Computation, MatrixElements Technologies, Shanghai, China; He, D., School of Cyber Science and Engineering, Wuhan University, Shanghai Key Laboratory of Privacy-Preserving Computation, MatrixElements Technologies, Shanghai, China; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, United States; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Wang, H., College of Computer, Nanjing University of Posts and Telecommunications, Nanjing, China; Choo, K.R., Department of Information Systems and Cyber Security, University of Texas at San Antonio, San Antonio, United States	ACM Computing Surveys	2022	3600300
5045	Evaluating the relative operational performance of wind power plants in Indian electricity generation sector using two-stage model	Kumar R., Khetrupal P., Badoni M., Diwania S.	Kumar, R., Department of Electrical Engineering, Jamia Millia Islamia, India, Department of Electrical and Electronics Engineering, KIET Group of Institutions, India; Khetrupal, P., Department of Electrical and Electronics Engineering, KIET Group of Institutions, India, Department of Electrical Engineering, Institute of Technology, Nirma University, India; Badoni, M., Department of Electrical Engineering, Thapar Institute of Engineering and Technology, India; Diwania, S., Department of Electrical Engineering, Jamia Millia Islamia, India, Department of Electrical and Electronics Engineering, KIET Group of Institutions, India	Energy and Environment	2022	0958305X
5046	Faster Fog Computing Based Over-the-Air Vehicular Updates: A Transfer Learning Approach	Al Maruf M., Singh A., Azim A., Auluck N.	Al Maruf, M., Ontario Tech University, Department of Electrical, Computer and Software Engineering, Ontario, ON L1G 0C5, Canada; Singh, A., Indian Institute of Technology Ropar, Department of Computer Science and Engineering, Punjab, Rupnagar, 140001, India, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Azim, A., Ontario Tech University, Department of Electrical, Computer and Software Engineering, Ontario, ON L1G 0C5, Canada; Auluck, N., Indian Institute of Technology Ropar, Department of Computer Science and Engineering, Punjab, Rupnagar, 140001, India	IEEE Transactions on Services Computing	2022	19391374
5047	Investigating critical factors that encourage public-private partnership in infrastructure projects in emerging economies: Evidence from the Republic of India	Sharma R.K., Bhalla N., Goyal A.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Bhalla, N., School of Humanities and Social Sciences, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Goyal, A., School of Humanities and Social Sciences, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India	Journal of Public Affairs	2022	14723891

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5048	Urban land cover and land use classification using multispectral sentinel-2 imagery	Soni P.K., Rajpal N., Mehta R., Mishra V.K.	Soni, P.K., University School of Information Communication & Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Rajpal, N., University School of Information Communication & Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, India; Mishra, V.K., Indian Institute of Information Technology Allahabad, Prayagraj, India	Multimedia Tools and Applications	2022	13807501
5049	Employee experience through academic culture emerges as a strongest predictor of overall performance of higher education institutes	Pandita A., Kiran R.	Pandita, A., School of Humanities and Social Science, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Public Affairs	2022	14723891
5050	On effect of chemical-assisted mechanical blending of barium titanate and graphene in PVDF for 3D printing applications	Sharma R., Singh R., Batish A.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
5051	Lip reading framework using deep learning and machine learning	Gianey H.K., Khandelwal P., Goel P., Maheshwari R., Galhotra B., Singh D.P.	Gianey, H.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Khandelwal, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goel, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Maheshwari, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Galhotra, B., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, D.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Advances in Data Science and Analytics: Concepts and Paradigms	2022	
5052	Effect of Intrinsic and Extrinsic Oxygen Vacancies on the Conductivity of Gd-Doped CeO ₂ Synthesized by a Sonochemical Route	Kaur T., Singh K., Kolte J.	Kaur, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physical Chemistry C	2022	19327447
5053	Catalytic Synthesis of Energy-rich Fuel Additive Levulinic Acid using Modified Ultra-stable Zeolite Y	Gautam P., Barman S., Ali A.	Gautam, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-VT Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ChemistrySelect	2022	23656549
5054	Moment-Curvature behavior of steel and GFRP reinforced beam using AE and DIC Techniques	Sharma G., Sharma S., Sharma S.K.	Sharma, G., Civil Engineering Department, Amity University, Uttar Pradesh 201310, India; Sharma, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Structural Engineering and Mechanics	2022	12254568
5055	Optimal parameter extraction of proton exchange membrane fuel cell using Henry gas solubility optimization	Singh P., Sandhu A.	Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sandhu, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	International Journal of Energy Research	2022	0363907X
5056	Preface	Saeed S., Almuhaideb A.M., Kumar N., Zaman N., Zikria Y.B.	Saeed, S., Department of Computer Information Systems, College of Computer Science and Information Technology, Imam Abdulrahman bin Faisal University, Dammam, Saudi Arabia; Almuhaideb, A.M., Department of Networks and Communications, College of Computer Science and Information Technology, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; Kumar, N., Thapar Institute of Engineering and Technology, India; Zaman, N., Taylor's University, Malaysia; Zikria, Y.B., Yeungnam University, South Korea	Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications	2022	
5057	Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications	Saeed S., Almuhaideb A.M., Kumar N., Zaman N., Zikria Y.B.	Saeed, S., Department of Computer Information Systems, College of Computer Science and Information Technology, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; Almuhaideb, A.M., Department of Networks and Communications, College of Computer Science and Information Technology, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; Kumar, N., Thapar Institute of Engineering and Technology, India; Zaman, N., Taylor's University, Malaysia; Zikria, Y.B., Yeungnam University, South Korea	Handbook of Research on Cybersecurity Issues and Challenges for Business and FinTech Applications	2022	
5058	Deciphering the Molecular Mechanism of Inhibition of β -Secretase (BACE1) Activity by a 2-Amino-imidazol-4-one Derivative	Kaur G., Goyal B.	Kaur, G., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	ChemistrySelect	2022	23656549

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5059	What's critical for closed-loop supply chain operations? - Findings from the Indian small and medium manufacturing enterprises	Bhatia M.S., Srivastava R.K., Jakhar S.K., Kumar S.	Bhatia, M.S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, India; Srivastava, R.K., Indian Institute of Management Lucknow, Lucknow, India; Jakhar, S.K., Indian Institute of Management Lucknow, Lucknow, India; Kumar, S., Indian Institute of Management Indore, Indore, India	Journal of Cleaner Production	2022	9596526
5060	UAV-enabled edge computing and blockchain based secure charging station selection for energy trading in V2G environment	Miglani A., Kumar N., Kishore A., Mohammad N.	Miglani, A., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Kishore, A., Thapar Institute of Engineering and Technology, Patiala, India; Mohammad, N., Pmu, Saudi Arabia	DroneCom 2022 - Proceedings of the 5th International ACM Mobicom Workshop on Drone Assisted Wireless Communications for 5G and Beyond	2022	
5061	Federated learning based energy efficient scheme for MEC with NOMA underlying UAV	Sharma H., Budhiraja I., Consul P., Kumar N., Garg D., Zhao L., Liu L.	Sharma, H., Thapar Institute of Engineering and Technology, Patiala, India; Budhiraja, I., Bennett University, Greater Noida, India; Consul, P., Bennett University, Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Garg, D., Bennett University, Greater Noida, India; Zhao, L., Shenyang Aerospace University, China; Liu, L., Xidian University, Xi'an, China	DroneCom 2022 - Proceedings of the 5th International ACM Mobicom Workshop on Drone Assisted Wireless Communications for 5G and Beyond	2022	
5062	Berry curvature induced anomalous Hall conductivity in the magnetic topological oxide double perovskite Sr ₂ FeMoO ₆	Chakraborty T., Samanta K., Guin S.N., Noky J., Robredo I., Prasad S., Kuebler J., Shekhar C., Vergniory M.G., Felser C.	Chakraborty, T., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab147004, India; Samanta, K., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany; Guin, S.N., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany, Department of Chemistry, Birla Institute of Technology and Science Pilani, Hyderabad Campus, Hyderabad, 500078, India; Noky, J., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany; Robredo, I., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany, Donostia International Physics Center, Donostia-San Sebastián, 20018, Spain; Prasad, S., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany; Kuebler, J., Technische Universitaet Darmstadt, Darmstadt, 64289, Germany; Shekhar, C., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany; Vergniory, M.G., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany, Donostia International Physics Center, Donostia-San Sebastián, 20018, Spain; Felser, C., Max Planck Institute for Chemical Physics of Solids, Dresden, 01187, Germany	Physical Review B	2022	24699950
5063	HKUST-1 infused woven cotton filter for enhanced adsorptive removal of toluene vapor from gaseous streams	Anand B., Kumar V., Younis S.A., Kim K.-H.	Anand, B., Department of Civil and Environmental Engineering, Hanyang University, Seoul, 04763, South Korea; Kumar, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Younis, S.A., Department of Civil and Environmental Engineering, Hanyang University, Seoul, 04763, South Korea, Analysis and Evaluation Department, Egyptian Petroleum Research Institute (EPRI), Nasr City, Cairo, 11727, Egypt; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, Seoul, 04763, South Korea	Separation and Purification Technology	2022	13835866
5064	Significantly improved dielectric and energy storage behavior of the surface functionalized CaCu ₃ Ti ₄ O ₁₂ nanoparticles in PVDF-CaCu ₃ Ti ₄ O ₁₂ nanocomposites	Kaur S., Singh D.P.	Kaur, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, D.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2022	9258388
5065	Association of dietary inflammatory index with chronic kidney disease and kidney stones in Iranian adults: A cross-sectional study within the Ravansar non-communicable diseases cohort	Moludi J., Fateh H.L., Pasdar Y., Moradinazar M., Sheikhi L., Saber A., Kamari N., Bonyani M., Najafi F., Dey P.	Moludi, J., School of Nutritional Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran; Fateh, H.L., Department of Nursing, Sulaimani Polytechnic University, Sulaimani, Iraq; Pasdar, Y., School of Nutritional Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran; Moradinazar, M., Behavioral Disease Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran; Sheikhi, L., Department of Nutrition, School of Allied Medical Sciences, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran; Saber, A., School of Nutritional Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran; Kamari, N., School of Nutritional Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran; Bonyani, M., Medical Education Development Center, Kermanshah University of Medical Sciences, Kermanshah, Iran; Najafi, F., Research Center for Environmental Determinants of Health, Kermanshah University of Medical Sciences, Kermanshah, Iran; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Nutrition	2022	2296861X
5066	Signature based Merkle Hash Multiplication algorithm to secure the communication in IoT devices	Kumari S., Singh M., Singh R., Tewari H.	Kumari, S., Thapar Institute Of Engineering & Technology, Patiala, Punjab 147004, India; Singh, M., Thapar Institute Of Engineering & Technology, Patiala, Punjab 147004, India; Singh, R., University of the West of ScotlandG72 0LH, United Kingdom; Tewari, H., Trinity College Dublin, Ireland	Knowledge-Based Systems	2022	9507051

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5067	A Comprehensive Study of Deep Learning-based Covert Communication	Anand A., Kumar Singh A.	Anand, A., Department of CSE, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar Singh, A., Department of CSE, National Institute of Technology Patna, Bihar, Patna, 800005, India	ACM Transactions on Multimedia Computing, Communications and Applications	2022	15516857
5068	A paradigm shift from classroom teaching to digital e-learning during Covid-19 pandemic: Study from teacher's perspective	Verma S., Kaur J.	Verma, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Virtual Learning: Insights and Perspectives	2022	
5069	Photocatalytic degradation of pesticide monocrotophos in water using W-TiO2 in slurry and fixed bed recirculating reactor	Sraw A., Kaur T., Thakur I., Verma A., Wanchoo R.K., Toor A.P.	Sraw, A., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Kaur, T., Energy Research Centre, Panjab University, Chandigarh, 160014, India; Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Wanchoo, R.K., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Toor, A.P., Energy Research Centre, Panjab University, Chandigarh, 160014, India, Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India	Journal of Molecular Structure	2022	222860
5070	Effect of High Operating Temperatures on the Wear Characteristics of Boron Carbide and Ilmenite Reinforced LM13 Alloy-Based Composites	Gupta R., Nanda T., Pandey O.P.	Gupta, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Nanda, T., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Tribology	2022	7424787
5071	A theoretical study on the impact of centrifugal potential and fragment identification in the decay of compound nuclei ($A \text{ CN} = 6 \text{ O} \& 1 \text{ O} \text{ O}$)	Sarkar G., Kaur A., Maiti M., Sharma M.K.	Sarkar, G., Department of Physics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Kaur, A., Department of Physics, Faculty of Science, University of Zagreb, Bijenička c. 32, Zagreb, 10000, Croatia, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maiti, M., Department of Physics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Modern Physics E	2022	2183013
5072	An innovative decisive framework for optimized agri-automobile evaluation and HRM pattern recognition via possibility fuzzy hypersoft setting	Rahman A.U., Saeed M., Garg H.	Rahman, A.U., Department of Mathematics, University of Management and Technology, Lahore, Pakistan; Saeed, M., Department of Mathematics, University of Management and Technology, Lahore, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, India, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, India	Advances in Mechanical Engineering	2022	16878132
5073	Role of Skyrme forces in cluster radioactivity of parent nuclei with even (A,Z)	Rajni, Sawhney G., Sharma M.K.	Rajni, Department of Physics, Sardar Vallabhbhai National Institute of Technology, Gujarat, Surat, 395007, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sawhney, G., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Review C	2022	24699985
5074	Medium-dependent relativistic NN potential: Application to fusion dynamics	Bhuyan M., Rana S., Jain N., Kumar R., Patra S.K., Carlson B.V.	Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Natural Science, Duy Tan University, Da Nang, 550000, Viet Nam; Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sainik School, Sachivalaya Marg, Bhubaneswar, 751005, India; Carlson, B.V., Instituto Tecnológico de Aeronautica, Sao Jose Dos Campos, Sao Paulo, 1222900, Brazil	Physical Review C	2022	24699985
5075	Energy optimization of diffraction managed accessible solitons	Mishra M., Kajala S.K., Sharma M., Konar S., Jana S.	Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Kajala, S.K., Department of Physics, Mody University of Science and Technology, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Konar, S., Department of Physics, Birla Institute of Technology, Ranchi, Mesra, 835215, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of the Optical Society of America B: Optical Physics	2022	7403224
5076	A Comprehensive Study on Pythagorean Fuzzy Normal Subgroups and Pythagorean Fuzzy Isomorphisms	Razaq A., Alhamzi G., Razaque A., Garg H.	Razaq, A., Department of Mathematics, Division of Science and Technology, University of Education, Lahore, 54770, Pakistan; Alhamzi, G., Department of Mathematics and Statistics, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, 11564, Saudi Arabia; Razaque, A., Department of Basic Sciences, King Faisal University, Al Ahsa, 31982, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, 248002, India	Symmetry	2022	20738994

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5077	On the Validity of a Linearity Axiom in Diffusion and Heat Transfer	Arya R.K., Thapliyal D., Verros G.D., Singh N., Singh D., Kumar R., Srivastava R.K., Tiwari A.K.	Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Punjab, Jalandhar, 144011, India; Thapliyal, D., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Punjab, Jalandhar, 144011, India; Verros, G.D., Department of Chemistry, Aristotle University of Thessaloniki, P.O. Box 454 Plagiari Thes, Epanomi, 57500, Greece; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, D., Department of Chemical Engineering, I.E.T. Lucknow (Sitapur Road), Uttar Pradesh, Lucknow, 226021, India; Kumar, R., Department of Chemical Engineering, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Srivastava, R.K., Department of Biotechnology, GITAM School of Technology, GITAM (Deemed to be University), Gandhi nagar, Rushikonda, Andhra Pradesh, Visakhapatnam, 530045, India; Tiwari, A.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Punjab, Jalandhar, 144011, India	Coatings	2022	20796412
5078	An Ensemble Machine Learning Technique for Detection of Abnormalities in Knee Movement Sustainability	Bansal H., Chinagundi B., Rana P.S., Kumar N.	Bansal, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chinagundi, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India	Sustainability (Switzerland)	2022	20711050
5079	FRP Stay-in-Place Formworks for High Performance of Concrete Slabs	Goyal R., Majhi S., Mukherjee A., Goyal S.	Goyal, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Majhi, S., School of Civil and Mechanical Engineering, Curtin University, Bentley, WA 6102, Australia; Mukherjee, A., School of Civil and Mechanical Engineering, Curtin University, Bentley, WA 6102, Australia; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Composites Science	2022	2504477X
5080	The Use of Machine Learning for Comparative Analysis of Amperometric and Chemiluminescent Methods for Determining Antioxidant Activity and Determining the Phenolic Profile of Wines	Kazak A., Plugatar Y., Johnson J., Grishin Y., Chetyrbok P., Korzin V., Kaur P., Kokodey T.	Kazak, A., Humanities Pedagogical Institute, V.I. Vernadsky Crimean Federal University, Simferopol, 295007, Russian Federation; Plugatar, Y., Nikitsky Botanical Gardens—National Scientific Center of the Russian Academy of Sciences, Yalta, 298648, Russian Federation; Johnson, J., School of Health, Medical and Applied Sciences, Central Queensland University, North Rockhampton, QLD 4701, Australia; Grishin, Y., Magarach All-Russia National Research Institute for Viticulture and Wine-Making, Yalta, 298648, Russian Federation; Chetyrbok, P., Humanities Pedagogical Institute, V.I. Vernadsky Crimean Federal University, Simferopol, 295007, Russian Federation; Korzin, V., Nikitsky Botanical Gardens—National Scientific Center of the Russian Academy of Sciences, Yalta, 298648, Russian Federation; Kaur, P., CSED, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India; Kokodey, T., Humanities Pedagogical Institute, Sevastopol State University, Sevastopol, 299053, Russian Federation	Applied System Innovation	2022	25715577
5081	Quantum Secret Sharing using GHZ State Qubit Positioning and Selective Qubits Strategy with Simulation Analysis	Musanna F., Kumar S.	Musanna, F., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kumar, S., Department of Mathematics, IIT Roorkee, Roorkee, India	International Journal of Theoretical Physics	2022	207748
5082	GWLBC: Gray Wolf Optimization Based Load Balanced Clustering for Sustainable WSNs in Smart City Environment	Singh S., Nikolovski S., Chakrabarti P.	Singh, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering Computing and Information Technology, Osijek, 31000, Croatia; Chakrabarti, P., School of Computer Science Engineering and Technology, ITM SLS Baroda University, Vadodara, 395150, India	Sensors	2022	14248220
5083	Some Congruences for the Coefficients of Rogers–Ramanujan Type Identities	Gupta V., Rana M.	Gupta, V., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Mathematics	2022	22277390
5084	Analytical Delay Model and Stability Analysis for MLGMR Interconnects	Sharma H., Sandha K.S.	Sharma, H., Department of ECE, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Sandha, K.S., Department of ECE, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India	Journal of Circuits, Systems and Computers	2022	2181266
5085	An AI-based disease detection and prevention scheme for COVID-19	Tanwar S., Kumari A., Vekaria D., Kumar N., Sharma R.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumari, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Vekaria, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering and Technology, (Deemed to be University), Punjab, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan; Sharma, R., Centre for Inter-Disciplinary Research and Innovation, University of Petroleum and Energy Studies, P.O. Bidholi Via-Prem Nagar, Dehradun, India	Computers and Electrical Engineering	2022	457906
5086	Frequency aware face hallucination generative adversarial network with semantic structural constraint	Sharma S., Dhall A., Kumar V.	Sharma, S., Thapar Institute of Engineering and Technology, India; Dhall, A., Monash University, Australia, Indian Institute of Technology, Ropar, India; Kumar, V., Thapar Institute of Engineering and Technology, India	Computer Vision and Image Understanding	2022	10773142

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5087	Fourier-based methods for removing mesh anomalies from angle resolved photoemission spectra	Liu S., Kotta E., Xu Y., Mutch J., Chu J.-H., Hoesch M., Mahatha S.K., Denlinger J.D., Wray L.A.	Liu, S., Department of Physics, New York University, New York, NY 10003, United States; Kotta, E., Department of Physics, New York University, New York, NY 10003, United States; Xu, Y., Department of Physics, New York University, New York, NY 10003, United States; Mutch, J., Department of Physics, University of Washington, Seattle, WA, United States; Chu, J.-H., Department of Physics, University of Washington, Seattle, WA, United States; Hoesch, M., Photon Science, Deutsches Elektronen-Synchrotron (DESY), Notkestrasse 85, Hamburg, 22607, Germany; Mahatha, S.K., Photon Science, Deutsches Elektronen-Synchrotron (DESY), Notkestrasse 85, Hamburg, 22607, Germany, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Denlinger, J.D., Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, United States; Wray, L.A., Department of Physics, New York University, New York, NY 10003, United States	Journal of Electron Spectroscopy and Related Phenomena	2022	3682048
5088	Approach to multi-attribute decision-making problems based on neutrality aggregation operators of T-spherical fuzzy information	Javed M., Javeed S., Ullah K., Garg H., Pamucar D., Elmasry Y.	Javed, M., Department of Mathematics, COMSATS University Islamabad, Islamabad Campus, Park Road, Chak Shahzad, Islamabad, 45550, Pakistan; Javeed, S., Department of Mathematics, COMSATS University Islamabad, Islamabad Campus, Park Road, Chak Shahzad, Islamabad, 45550, Pakistan; Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Pamucar, D., Faculty of Organizational Sciences, University of Belgrade, Belgrade, 11000, Serbia; Elmasry, Y., Department of Mathematics, Faculty of Science, King Khalid University, P.O. Box 9004, Abha, 61466, Saudi Arabia, Department of Mathematics, Faculty of Science, Mansoura University, Mansoura, 35516, Egypt	Computational and Applied Mathematics	2022	22383603
5089	New foundations of dispositionalism - introduction	Azzano L., Raimondi A.	Azzano, L., Department of Philosophy and Anthropology, University of Santiago de Compostela, Praza de Mazarelos s/n, 15,782, Santiago de Compostela, Spain; Raimondi, A., School of Liberals Arts and Sciences, Thapar Institute of Engineering and Technology, Bhadson Rd., 147,004, Patiala, India	Synthese	2022	397857
5090	AgriMine: A Deep Learning integrated Spatio-temporal analytics framework for diagnosing nationwide agricultural issues using farmers' helpline data	Godara S., Toshniwal D., Parsad R., Bana R.S., Singh D., Bedi J., Jhahhria A., Dabas J.P.S., Marwaha S.	Godara, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India, Indian Institute of Technology Roorkee, Uttarakhand, India; Toshniwal, D., Indian Institute of Technology Roorkee, Uttarakhand, India; Parsad, R., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Bana, R.S., ICAR-Indian Agricultural Research Institute, New Delhi, India; Singh, D., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Bedi, J., Thapar Institute of Engineering and Technology, Punjab, India; Jhahhria, A., ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, India; Dabas, J.P.S., ICAR-Indian Agricultural Research Institute, New Delhi, India; Marwaha, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India	Computers and Electronics in Agriculture	2022	1681699
5091	Anti-phishing technique based on dynamic image captcha using multi secret sharing scheme	Arora A., Garg H., Shivani S.	Arora, A., Department of Computer Science and Engineering, GLA University, UP, Mathura, India; Garg, H., Department of Computer Science and Engineering, GLA University, UP, Mathura, India; Shivani, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Visual Communication and Image Representation	2022	10473203
5092	Electronic transport in doped and dielectric inserted MLG NR interconnects: Crosstalk induced delay and stability analyses at sub-threshold regime	Sidhu R., Rai M.K.	Sidhu, R., Thapar University, Thapar Institute of Engineering and Technology, India; Rai, M.K., Thapar University, Thapar Institute of Engineering and Technology, India	Microelectronics Journal	2022	262692
5093	Scalable priority-based resource allocation scheme for M2M communication in LTE/LTE-A network	Singh U., Dua A., Kumar N., Tanwar S., Iqbal R., Hijji M., Amin S., Sharma R.	Singh, U., Birla Institute of Technology and Science, Pilani, India; Dua, A., Birla Institute of Technology and Science, Pilani, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, 382481, India; Iqbal, R., University of Dubai, United Arab Emirates; Hijji, M., Faculty of Computers & Information Technology, Computer Science Department, University of Tabuk, Tabuk, Saudi Arabia; Amin, S., University of Dubai, United Arab Emirates; Sharma, R., Centre for Inter-Disciplinary Research and Innovation, University of Petroleum and Energy Studies, P.O. Bidholi Via-Prem Nagar, Dehradun, 248001, India	Computers and Electrical Engineering	2022	457906
5094	STOWP: A light-weight deep residual network integrated windowing strategy for storage workload prediction in cloud systems	Bedi J., Patel Y.S.	Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Patel, Y.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Engineering Applications of Artificial Intelligence	2022	9521976
5095	Spark map reduce based framework for seismic facies classification	Bedi J., Toshniwal D.	Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Engineering, Indian Institute of Technology Roorkee, Uttarakhand, India; Toshniwal, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Applied Geophysics	2022	9269851

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5096	Advanced computing and communication technologies for Internet of Drones	Kumar N., Aujla G.S., Obaidat M.S., Lu R., Guo S.	Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Aujla, G.S., Durham University, United Kingdom; Obaidat, M.S., University of Sharjah, Sharjah, United Arab Emirates; Lu, R., University of New Brunswick, Canada; Guo, S., The Hongkong Polytechnic University, Hong Kong	Computer Communications	2022	1403664
5097	Microstructural evolution during short heat treatment of constrained groove pressed Cu-5%Zn alloy	Yadav P.C., Sarvesha R., Guruprasad T.S.	Yadav, P.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sarvesha, R., Department of Materials Science and Engineering, Indian Institute of Technology-Kanpur, Uttar Pradesh, Kanpur, India, Department of Mechanical and Materials Engineering, Florida International University, Miami, FL, United States; Guruprasad, T.S., Department of Materials Science and Engineering, Indian Institute of Technology-Kanpur, Uttar Pradesh, Kanpur, India, Department of Mechanical and Manufacturing Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Karnataka, Manipal, India	Journal of Microscopy	2022	222720
5098	Effect of Flow-Field Variation on Hydrogen Adsorption in a Carbon Electrode Integrated into a Modified Reversible Polymer Electrolyte Membrane Fuel Cell	Singh G., Oberoi A.S., Kansal H.K., Singh A.P.	Singh, G., Dept. of Mechanical Engineering, University Institute of Engineering and Technology, South Campus, Panjab Univ., Chandigarh, 160014, India; Oberoi, A.S., Dept. of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kansal, H.K., Dept. of Mechanical Engineering, University Institute of Engineering and Technology, South Campus, Panjab Univ., Chandigarh, 160014, India; Singh, A.P., Dept. of Mechanical Engineering, University Institute of Engineering and Technology, South Campus, Panjab Univ., Chandigarh, 160014, India	Journal of Energy Engineering	2022	7339402
5099	LSMA-TLBO: A hybrid SMA-TLBO algorithm with lévy flight based mutation for numerical optimization and engineering design problems	Kundu T., Garg H.	Kundu, T., Department of Mathematics, Chandigarh University, Punjab, Mohali, 140413, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Advances in Engineering Software	2022	9659978
5100	A novel signal conditioning and isolation technique for efficiency enhancement of passive infrared sensor for smart applications	Verma M., Kaler R.S., Singh M.	Verma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Optik	2022	304026
5101	Ionic Associates of Fuschine Basic Dye as Sensing Probe for Potentiometric Determination of 2,4-Dichlorophenoxy- and 4-Chlorophenoxy Acetic Acids	Kormosh Z., Mittal S.K., Tkach V., Yurchenko O.	Kormosh, Z., Department of Chemistry, Ecology and Pharmacy, Lesya Ukrainka Volyn National University, Lutsk, 43000, Ukraine; Mittal, S.K., School of Chemistry and Biochemistry, Thapar Institute of Engg and Technology, Deemed University, Patiala, 147004, India; Tkach, V., Department of Organic and Physical Chemistry Chernivtsi National University, Kotsyubyns'ky Str. 2, Chernivtsi, 58000, Ukraine; Yurchenko, O., Department of Chemistry, Ecology and Pharmacy, Lesya Ukrainka Volyn National University, Lutsk, 43000, Ukraine	Analytical and Bioanalytical Chemistry Research	2022	2383093X
5102	Application of Gaussian-sequential-probabilistic-inference concept based Kalman filter for accurate estimation of state of charge of battery	Pattnaik M., Badoni M., Tatte Y.	Pattnaik, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tatte, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Energy Storage	2022	2352152X
5103	Correction to: Doxycycline Adsorptive Interaction with Mesoporous MCM-41: Kinetic and Isotherm Modelling with Thermodynamics (Chemistry Africa, (2022), 5, 4, (1055-1068), 10.1007/s42250-022-00365-w)	Saxena M., Kushwaha J.P., Kulshreshtha S., Kaur G., Singh N.	Saxena, M., Department of Biotechnology, Institute of Engineering and Technology, Bundelkhand University, Uttar Pradesh, Jhansi, India, Amity Institute of Biotechnology, Amity University Rajasthan, Rajasthan, Jaipur, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, 147004, India; Kulshreshtha, S., Amity Institute of Biotechnology, Amity University Rajasthan, Rajasthan, Jaipur, India; Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, 147004, India	Chemistry Africa	2022	25225758
5104	A review on Machine learning aspect in physics and mechanics of glasses	Singh J., Singh S.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, S., Department of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India	Materials Science and Engineering: B	2022	9215107
5105	Exploring thermal, optical, structural and luminescent properties of gamma irradiated Dy3+doped tellurite glasses: Photon shielding properties	Kaur S., Pandey O.P., Jayasankar C.K., Verma N.	Kaur, S., Department of Physics, Kanya Maha Vidyalaya, Punjab, Jalandhar, 144004, India, School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jayasankar, C.K., Department of Physics, Sri Venkateswara University, Tirupati, 517 502, India; Verma, N., Department of Physics, Kanya Maha Vidyalaya, Punjab, Jalandhar, 144004, India	Radiation Physics and Chemistry	2022	0969806X
5106	Physical layer security using beamforming techniques for 5G and beyond networks: A systematic review	Sharma H., Kumar N., Tekchandani R.	Sharma, H., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, King Abdul Aziz University, Jeddah, Saudi Arabia; Tekchandani, R., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Physical Communication	2022	18744907

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5107	Minimal excludant over partitions into distinct parts	Kaur P.S., Bhoria S.C., Eyyunni P., Maji B.	Kaur, P.S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhoria, S.C., Pt. Chiranjai Lal Sharma Government College, Urban Estate Sector-14, Haryana, Karnal, 132001, India; Eyyunni, P., Department of Mathematics, Indian Institute of Technology Indore, Madhya Pradesh, Simrol, Indore, 453552, India, Former Address, Indian Institute of Science Education and Research Berhampur, Industrial Training Institute (ITI) Berhampur, Engineering School Road, Berhampur, Odisha, 760010, India; Maji, B., Department of Mathematics, Indian Institute of Technology Indore, Madhya Pradesh, Simrol, Indore, 453552, India	International Journal of Number Theory	2022	17930421
5108	In vitro evaluation of bioactive properties of banana sap	Gupta G., Saxena S., Baranwal M., Reddy M.S.	Gupta, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Biologia	2022	63088
5109	Manifold Preserving Features and Regression for Semantic Labelling in High Dimensional Images	Srivastava V., Singh S.S., Biswas B.	Srivastava, V., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Biswas, B., Department of Computer Science and Engineering, IIT-BHU, Varanasi, India	Wireless Personal Communications	2022	9296212
5110	A novel self-boosting 5-level inverter for grid-connected photovoltaic system	Agarwal R., Gupta K.K., Singh S.	Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Electric Power Systems Research	2022	3787796
5111	An efficient matrix iteration family for finding the generalized outer inverse	Kansal M., Kumar S., Kaur M.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Mathematics and Computation	2022	963003
5112	MB-MaaS: Mobile Blockchain-based Mining-as-a-Service for IIoT environments	Bhattacharya P., Patel F., Tanwar S., Kumar N., Sharma R.	Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Patel, F., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India; Sharma, R., Centre for Inter-Disciplinary Research and Innovation, University of Petroleum and Energy Studies, Dehradun, 248001, India	Journal of Parallel and Distributed Computing	2022	7437315
5113	Current trends, applications, and challenges of coatings on additive manufacturing based biopolymers: A state of art review	Sharma S., Gupta V., Mudgal D.	Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Polymer Composites	2022	2728397
5114	Fabrication and mechanical characterization of hybrid composite reinforced with nanoparticles of alumina and zirconia	Vij V., Agarwal R., Garg M.P., Khanna R., Gupta V.	Vij, V., Mechanical Engineering Department, DAV University, Jalandhar, India; Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garg, M.P., Mechanical Engineering Department, DAV University, Jalandhar, India; Khanna, R., Mechanical Engineering Department, Maharishi Markandeshwar (Deemed to be University), Ambala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Polymer Composites	2022	2728397
5115	RKD-VNE: Virtual network embedding algorithm assisted by resource knowledge description and deep reinforcement learning in IIoT scenario	Zhang P., Gan P., Kumar N., Hsu C.-H., Shen S., Li S.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Gan, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Hsu, C.-H., Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Medical Research, China Medical University Hospital, China Medical University, Taichung, 40402, Taiwan; Shen, S., Department of Computer Science and Engineering, Shaoxing University, Shaoxing, 312000, China; Li, S., College of Oceanography and Space Informatics, China University of Petroleum (East China), Qingdao, 266580, China	Future Generation Computer Systems	2022	0167739X
5116	Three-phase triple-gain switched-capacitor inverter with reduced component count	Jena K., Panigrahi C.K., Gupta K.K.	Jena, K., KIIT University, Bhubaneswar, India; Panigrahi, C.K., KIIT University, Bhubaneswar, India; Gupta, K.K., Thapar Institute of Engineering & Technology, Patiala, India	Electrical Engineering	2022	9487921
5117	Intelligent energy aware approaches for residential buildings: state-of-the-art review and future directions	Kaur S., Bala A., Parashar A.	Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bala, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Parashar, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Cluster Computing	2022	13867857

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5118	A generalized transformerless switched-capacitor inverter for photovoltaic application	Jena K., Panigrahi C.K., Gupta K.K., Kumar D.	Jena, K., KIIT University, Bhubaneswar, India; Panigrahi, C.K., KIIT University, Bhubaneswar, India; Gupta, K.K., Thapar Institute of Engineering & Technology, Patiala, India; Kumar, D., Maulana Azad National Institute of Technology, Bhopal, India	Electrical Engineering	2022	9487921
5119	INTERLINK: A Digital Twin-Assisted Storage Strategy for Satellite-Terrestrial Networks	Zhao L., Wang C., Zhao K., Tarchi D., Wan S., Kumar N.	Zhao, L., Shenyang Aerospace University, School of Computer Science, Shenyang, 110136, China, Fujian Normal University, Digit Fujian Internet-of-Things Laboratory of Environmental Monitoring, Fuzhou, China; Wang, C., Shenyang Aerospace University, Shenyang, 110136, China; Zhao, K., Nanjing University, School of Electronic Science and Engineering, Nanjing, China; Tarchi, D., University of Bologna, Department of Electrical, Electronic and Information Engineering, Bologna, Italy; Wan, S., University of Electronic Science and Technology, School of Information and Safety Engineering, Shenzhen, 518110, China; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	IEEE Transactions on Aerospace and Electronic Systems	2022	189251
5120	Switched capacitors-based single-phase seven-level photovoltaic inverter with self-voltage balancing	Agarwal R., Gupta K.K., Singh S.	Agarwal, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Electrical Engineering	2022	9487921
5121	Post-yielding fracture mechanics of 3D printed polymer-based orthopedic cortical screws	Agarwal R., Mehtani H.K., Singh J., Gupta V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mehtani, H.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Polymer Composites	2022	2728397
5122	Reliability-based mix design of marble dust incorporated concrete and its assessment using the concept of performance index	Singh M., Yadav S., Hussain S., Arora P., Srivastava A.	Singh, M., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Yadav, S., Civil Engineering Department, BITS Pilani, Rajasthan, Pilani, India; Hussain, S., Department of Civil Engineering, Muffakham Jah College of Engineering & Technology, Telangana, Hyderabad, India; Arora, P., Civil and Urban Engineering Department, New York University Tandon School of Engineering, New York, NY, United States; Srivastava, A., Civil Engineering Department, BITS Pilani, Rajasthan, Pilani, India	Structural Concrete	2022	14644177
5123	Predictive modeling of surface and dimensional features of vapour-smoothened FDM parts using self-adaptive cuckoo search algorithm	Chohan J.S., Mittal N., Singh R., Singh U., Salgotra R., Kumar R., Singh S.	Chohan, J.S., Department of Mechanical Engineering, Chandigarh University, Mohali, 140413, India; Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, 140413, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, 160019, India; Singh, U., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Salgotra, R., Tel Aviv University, Tel Aviv, Israel; Kumar, R., Department of Mechanical Engineering, Chandigarh University, Mohali, 140413, India; Singh, S., Department of Civil Engineering, Chandigarh University, Mohali, 140413, India	Progress in Additive Manufacturing	2022	23639512
5124	Energy efficient load balancing hybrid priority assigned laxity algorithm in fog computing	Singh S.P., Kumar R., Sharma A., Abawajy J.H., Kaur R.	Singh, S.P., School of Computer Science Engineering and Technology (SCSET), Bennett University, Greater Noida, India; Kumar, R., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, 151001, India; Abawajy, J.H., Faculty of Science, Engineering and Built Environment, Deakin University, Geelong, VIC 3220, Australia; Kaur, R., Department of Chemical Engineering, Sant Longowal Institute of Engineering and Technology, Sangrur, Longowal, India	Cluster Computing	2022	13867857
5125	Applications of waste-derived visibly active Fe-TiO2 composite incorporating the hybrid process of photocatalysis and photo-Fenton for the inactivation of E. coli	Thakur I., Verma A., Örmeci B., Sangal V.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada; Sangal, V., Department of Chemical Engineering, MNIT, Jaipur, 302017, India	Environmental Science and Pollution Research	2022	9441344
5126	A real time cloud-based framework for glaucoma screening using EfficientNet	Garg H., Gupta N., Agrawal R., Shivani S., Sharma B.	Garg, H., GLA University, Uttar Pradesh, Mathura, India; Gupta, N., GLA University, Uttar Pradesh, Mathura, India; Agrawal, R., GLA University, Uttar Pradesh, Mathura, India; Shivani, S., Thapar University, Patiala, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh, Chandigarh, India	Multimedia Tools and Applications	2022	13807501
5127	Utilization of Natural Mineral Ilmenite-Reinforced Composites for the Dry Sliding Application	Singhal V., Pandey O.P.	Singhal, V., Metallurgical Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., Metallurgical Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Metalcasting	2022	19395981
5128	Optimality and duality for second-order interval-valued variational problems	Dhingra V., Kailey N.	Dhingra, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Journal of Applied Mathematics and Computing	2022	15985865

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5129	Implementation analysis of IoT-based offloading frameworks on cloud/edge computing for sensor generated big data	Bajaj K., Sharma B., Singh R.	Bajaj, K., Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh, India; Singh, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Complex and Intelligent Systems	2022	21994536
5130	Hierarchical WSN protocol with fuzzy multi-criteria clustering and bio-inspired energy-efficient routing (FMCB-ER)	Mehta D., Saxena S.	Mehta, D., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Saxena, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Multimedia Tools and Applications	2022	13807501
5131	Blockchain for precision irrigation: Opportunities and challenges	Bodkhe U., Tanwar S., Bhattacharya P., Kumar N.	Bodkhe, U., Department of CSE, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of CSE, Institute of Technology, Nirma University, Ahmedabad, India; Bhattacharya, P., Department of CSE, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed-to-be-University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, Taiwan, Department of Computer Science, Taiwan and King Abdul Aziz University, Jeddah, Saudi Arabia	Transactions on Emerging Telecommunications Technologies	2022	21613915
5132	Artificial intelligence research in agriculture: a review	Sood A., Sharma R.K., Bhardwaj A.K.	Sood, A., Information Systems Management, LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R.K., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, A.K., Information Systems Management, LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	Online Information Review	2022	14684527
5133	Modified valence aware dictionary for sentiment reasoning classifier for detection and classification of Covid-19 related rumors from social media data streams	Arora S., Rani R., Saxena N.	Arora, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
5134	Autoreactive lymphocytes in multiple sclerosis: Pathogenesis and treatment target	Liu R., Du S., Zhao L., Jain S., Sahay K., Rizvanov A., Lezhnyova V., Khaibullin T., Martynova E., Khaiboullina S., Baranwal M.	Liu, R., Department of Immunology, School of Basic Medical Sciences, Henan University of Science and Technology, Luoyang, China; Du, S., Department of Immunology, School of Basic Medical Sciences, Henan University of Science and Technology, Luoyang, China; Zhao, L., Department of Immunology, School of Basic Medical Sciences, Henan University of Science and Technology, Luoyang, China; Jain, S., Department of Biochemistry and Molecular Biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel; Sahay, K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Rizvanov, A., Gene and cell Department, Kazan Federal University, Kazan, Russian Federation; Lezhnyova, V., Gene and cell Department, Kazan Federal University, Kazan, Russian Federation; Khaibullin, T., Neurological Department, Republican Clinical Neurological Center, Kazan, Russian Federation; Martynova, E., Gene and cell Department, Kazan Federal University, Kazan, Russian Federation; Khaiboullina, S., Gene and cell Department, Kazan Federal University, Kazan, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Immunology	2022	16643224
5135	Role of "s" Substitution on C-H Activation Reactivity of Iron(IV)-Oxo Cyclam Complexes: A Computational Investigation	Kaur L., Mandal D.	Kaur, L., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Inorganic Chemistry	2022	201669
5136	Utilization of crushed recycled glass and metakaolin for development of self-compacting concrete	Singh H., Siddique R.	Singh, H., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Patiala, Punjab 147004, India	Construction and Building Materials	2022	9500618
5137	A review of hydrogen production processes by photocatalytic water splitting – From atomistic catalysis design to optimal reactor engineering	Gupta A., Likozar B., Jana R., Chanu W.C., Singh M.K.	Gupta, A., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Likozar, B., Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Ljubljana, 1001, Slovenia; Jana, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Chanu, W.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala Punjab, 147004, India; Singh, M.K., Applied Materials India Private Limited, Karnataka, Bangalore, 560066, India, Department of Mechanical Engineering, Indian Institute of Science, Karnataka, Bangalore, 560012, India	International Journal of Hydrogen Energy	2022	3603199
5138	Study of F-wave bottom mesons in heavy quark effective theory	Garg R., Upadhyay A.	Garg, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Upadhyay, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Progress of Theoretical and Experimental Physics	2022	20503911

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5139	A Choquet Integral Based Cosine Similarity Measure for Interval-Valued Intuitionistic Fuzzy Sets and an Application to Pattern Recognition	Garg H., Olgun M., Türkarlan E., Ünver M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Olgun, M., Ankara University, Faculty of Science, Department of Mathematics, Ankara, 06100, Turkey; Türkarlan, E., Ankara University, Faculty of Science, Department of Mathematics, Ankara, 06100, Turkey, TED University, Faculty of Arts and Science, Department of Mathematics, Ankara, 06420, Turkey; Ünver, M., Ankara University, Faculty of Science, Department of Mathematics, Ankara, 06100, Turkey	Lobachevskii Journal of Mathematics	2022	19950802
5140	CEMENT-SUPERPLASTICIZER COMPATIBILITY AND FLOW PROPERTIES OF BINDER PASTE AND MORTAR USING MARSH CONE AND FLOW TABLE METHOD SHEIKH MAYESSER MU	Mushtaq S.M., Rajput T., Basu D.	Mushtaq, S.M., Thapar Institute of Engineering and Technology (TIET), Patiala, India; Rajput, T., Indian Institute of Technology (IIT), Gandhinagar, India; Basu, D., Indian Institute of Technology (IIT), Gandhinagar, India	Indian Concrete Journal	2022	194565
5141	Can Causal Powers Cause Their Effects?	Raimondi A.	Raimondi, A., Thapar Institute of Engineering and Technology, TSLAS, Patiala, India	Metaphysica	2022	14372053
5142	Theoretical attempt to predict the cross sections in the case of new superheavy elements	Chopra S., Goel N., Sharma M.K., Hess P.O., Hemdeep	Chopra, S., Computational and Theoretical Chemistry Group, Department of Chemistry, Panjab University, Chandigarh, 160014, India; Goel, N., Computational and Theoretical Chemistry Group, Department of Chemistry, Panjab University, Chandigarh, 160014, India; Sharma, M.K., School of Physics and Material Science, Thapar University, Patiala, 147004, India; Hess, P.O., Instituto de Ciencias Nucleares, UNAM, Mexico-City, 04510, Mexico; Hemdeep, Malwa College, Punjab, Bondli, Samrala, 141114, India	Physical Review C	2022	24699985
5143	Analysis of formation and decay of Ba * 122,128 formed via Ni 58,64 + Ni 64 reactions near the Coulomb barrier	Kaur J., Kaur A., Gautam M.S., Sharma M.K.	Kaur, J., Department of Physics, School of Basic and Applied Sciences, RIMT University, Punjab, Mandi Gobindgarh, 140406, India; Kaur, A., Department of Mechatronics, Applied Engineering, CUIET, Chitkara University, Punjab, Rajpura, 140417, India; Gautam, M.S., Department of Physics, Government College Alewa (Jind), Haryana126102, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physical Review C	2022	24699985
5144	α decay of Po and Rn isotopes using different choices of impinging frequency	Sharma N., Sharma M.K.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Review C	2022	24699985
5145	FINE SURFACE FINISHING OF CIRCULAR TAPERED MOULD CAVITY FOR LIGHT COVERS USING MAGNETORHEOLOGICAL GRINDING PROCESS	Aggarwal A., Singh A.K.	Aggarwal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Surface Review and Letters	2022	0218625X
5146	Near dry turning of EN8 and EN31 steel: multi-objective optimization using grey relational analysis	Mian T., Mago J., Shaikh M.B.N., Ali M.	Mian, T., Department of Mechanical Engineering, Aligarh Muslim University, Uttar Pradesh, Aligarh, 202002, India; Mago, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Shaikh, M.B.N., Department of Mechanical Engineering, Aligarh Muslim University, Uttar Pradesh, Aligarh, 202002, India; Ali, M., Department of Mechanical Engineering, Aligarh Muslim University, Uttar Pradesh, Aligarh, 202002, India	Engineering Research Express	2022	26318695
5147	PETS: P2P Energy Trading Scheduling Scheme for Electric Vehicles in Smart Grid Systems	Aggarwal S., Kumar N.	Aggarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, 248007, India, Asia University, Department of Computer Science and Information Engineering, Taichung, 41354, Taiwan	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
5148	On some mock theta functions of order 2 and 3	Kaur H., Rana M.	Kaur, H., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	Journal of the Ramanujan Mathematical Society	2022	9701249
5149	Investigating the Impact of Financial Inclusion Drivers, Financial Literacy and Financial Initiatives in Fostering Sustainable Growth in North India	Pandey A., Kiran R., Sharma R.K.	Pandey, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sustainability (Switzerland)	2022	20711050
5150	A Comparative Study of Macrocyclic Mn(II) Nanocomplex Synthesized Using Sonication-Assisted and Conventional Methods for Biomedical Applications	Patyal M., Kaur K., Gupta N., Malik A.K., Paul K.	Patyal, M., Department of Chemistry, Punjabi University, Patiala, 147002, India; Kaur, K., Department of Chemistry, Punjabi University, Patiala, 147002, India; Gupta, N., Department of Chemistry, Punjabi University, Patiala, 147002, India; Malik, A.K., Department of Chemistry, Punjabi University, Patiala, 147002, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Asian Journal of Chemistry	2022	9707077

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5151	Microbial endophytes: application towards sustainable agriculture and food security	Dwivedi V., Rath S.K., Joshi M., Kaur R., Kaur G., Singh D., Kaur G., Kaur S.J.	Dwivedi, V., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Rath, S.K., School of Pharmaceutical & Population Health Informatics, Faculty of Pharmacy, DIT University, Uttarakhand, Dehradun, 248009, India; Joshi, M., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Kaur, R., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Kaur, G., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Singh, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, 14007, India; Kaur, G., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Kaur, S.J., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India	Applied Microbiology and Biotechnology	2022	1757598
5152	South Africa in the era of Industry 4.0: An Insightful Investigation	Dhamija P.	Dhamija, P., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa	Scientometrics	2022	1389130
5153	Growth of heteroepitaxial La and Mn co-substituted BiFeO ₃ thin films on Si (100) substrate by pulsed laser deposition	Kolte J., Gopalan P.	Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Gopalan, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Applied Physics A: Materials Science and Processing	2022	9478396
5154	Structural and luminescence studies of titanium co-doped SrY ₂ O ₄ :Eu phosphors	Bhatia S., Priya R., Kumar D., Upadhyay S., Pandey O.P.	Bhatia, S., Functional Material Lab, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Priya, R., University Institute of Sciences (UIS), Department of Physics, Chandigarh University, Mohali, India; Kumar, D., School of Materials Science and Technology, Indian Institute of Technology, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Upadhyay, S., Functional Material Lab, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, Division of Research and Innovation, Uttaranchal University, Prem Nagar, Uttarakhand, 248007, Dehradun, India; Pandey, O.P., Functional Material Lab, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Luminescence	2022	15227235
5155	FOPID controller design for a perturbed PHWR system using enhanced crow search algorithm	Singh R., Dora T., Lamba R., Bhullar A.K., Sondhi S.	Singh, R., Electrical and Instrumentation Department, Thapar Institute of Engineering and Technology, Patiala, India; Dora, T., Electrical and Instrumentation Department, Thapar Institute of Engineering and Technology, Patiala, India; Lamba, R., Electrical and Instrumentation Department, Thapar Institute of Engineering and Technology, Patiala, India; Bhullar, A.K., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Sondhi, S., Electrical and Instrumentation Department, Thapar Institute of Engineering and Technology, Patiala, India	Progress in Nuclear Energy	2022	1491970
5156	Biogenic silicate glass-ceramics: Physical, dielectric, and electrical properties	Sharma G., Tyagi N., Singh K., Sharma A., Preeti K., Sharma S.K.	Sharma, G., Department of Basic Science, Sardar Vallabhbhai Patel University of Agriculture & Technology, Uttar Pradesh, Meerut, 250110, India; Tyagi, N., Department of Physics & Astrophysics, Central University of Haryana, Haryana, Mahendra Garh, 123031, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, A., Biomaterials and Sensors Laboratory, Department of Physics, CCS University Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Preeti, K., Biomaterials and Sensors Laboratory, Department of Physics, CCS University Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Sharma, S.K., Biomaterials and Sensors Laboratory, Department of Physics, CCS University Meerut Campus, Uttar Pradesh, Meerut, 250004, India	Bioresource Technology Reports	2022	2589014X
5157	Surfactant induced ultrafiltration of heavy metal ions from aqueous solutions using a hybrid polymer-ceramic composite membrane	Malik N., Bulasara V.K., Basu S.	Malik, N., School of Chemistry & Biochemistry, Thapar University, Punjab, Patiala, 147004, India; Bulasara, V.K., Department of Chemical Engineering, Maulana Azad National Institute of Technology, Madhya Pradesh, Bhopal, 462003, India; Basu, S., School of Chemistry & Biochemistry, Thapar University, Punjab, Patiala, 147004, India	Chemical Engineering Research and Design	2022	2638762
5158	Long-term viable SF immobilized bacterial cells as sustainable solution for crack healing in concrete	Anand K., Goyal S., Reddy M.S.	Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Structures	2022	23520124
5159	Computational investigation of the tumor position and ambient conditions on magnetic nanoparticle thermo-therapy	Nain S., Kumar N., Kumar Avti P.	Nain, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar Avti, P., Department of Biophysics, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India	Thermal Science and Engineering Progress	2022	24519049

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5160	A median based quadrilateral local quantized ternary pattern technique for the classification of dermatoscopic images of skin cancer	Srivastava V., Kumar D., Roy S.	Srivastava, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, D., Department of Computer Science and Engineering, Bharati Vidyapeeth's College of Engineering, New Delhi, India; Roy, S., Artificial Intelligence and Data Science, Jio Institute, Navi Mumbai, India	Computers and Electrical Engineering	2022	457906
5161	Chaotic jam and phase transitions in a lattice model with density dependent passing	Verma M., Sharma S.	Verma, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chaos, Solitons and Fractals	2022	9600779
5162	Performance of Expanded Polystyrene (EPS) sandwiched concrete panels subjected to accelerated corrosion	Garhwal A., Sharma S., Roy A B D.	Garhwal, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Roy A B, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Structures	2022	23520124
5163	Fracture analysis of functionally graded material reinforced with MWCNT	Yadav A., Bhardwaj G., Patil R.U., Godara R.K.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Patil, R.U., Mechanical Engineering Department, Indian Institute of Technology, Jammu & Kashmir, Jammu, 181221, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Journal of Micromechanics and Molecular Physics	2022	24249130
5164	Necessary optimality conditions for nonsmooth multi-objective bilevel optimization problem under the optimistic perspective	Saini S., Kailey N.	Saini, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Positivity	2022	13851292
5165	Duality Results for Fractional Variational Problems and Its Application	Dhingra V., Kailey N.	Dhingra, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Bulletin of the Malaysian Mathematical Sciences Society	2022	1266705
5166	An isoform of sucrose synthase involved in sink strength of potato (<i>Solanum tuberosum</i> L): Molecular cloning, sequence analyses, 3-D structure, crucial motifs and expression	Kaur G., Das N.	Kaur, G., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	South African Journal of Botany	2022	2546299
5167	Significantly Enhanced Dielectric Behavior of Polyvinylidene Fluoride-Barium Strontium Titanate Flexible Nanocomposite Thick Films: Role of Electric Field-Induced Effects	Jaidka S., Aggarwal A., Chopra S., Singh D.P.	Jaidka, S., Energy Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Aggarwal, A., Terminal Ballistics Research Laboratory (TBRL), DRDO, Chandigarh, India; Chopra, S., Terminal Ballistics Research Laboratory (TBRL), DRDO, Chandigarh, India; Singh, D.P., Energy Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Electronic Materials	2022	3615235
5168	An interfacial study between SrZr _{0.85} Cu _{0.15} O ₃₋₆ and barium oxide-containing borosilicate glass sealant for solid oxide fuel cell application	Kaur P., Walia T., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Walia, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Chemistry and Physics	2022	2540584
5169	Mehar approach to solve neutrosophic linear programming problems using possibilistic mean	Bhatia T.K., Kumar A., Sharma M.K., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada	Soft Computing	2022	14327643
5170	EPSAPI: An efficient and provably secure authentication protocol for an IoT application environment	Algubili B.H.T., Kumar N., Lu H., Yassin A.A., Boussada R., Mohammed A.J., Liu H.	Algubili, B.H.T., Computer Science, Huazhong University of Science and Technology, Hubei, Wuhan, 430074, China, Department of Mathematics, College of Science, University of Basrah, Basrah, Iraq; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India; Lu, H., Computer Science, Huazhong University of Science and Technology, Hubei, Wuhan, 430074, China; Yassin, A.A., Department of Computer Science, Education College of Pure Science, University of Basrah, Basrah, 61004, Iraq; Boussada, R., SESAME University, Ariana, Tunisia; Mohammed, A.J., Department of Computer Science, Education College of Pure Science, University of Basrah, Basrah, 61004, Iraq; Liu, H., Computer Science, Huazhong University of Science and Technology, Hubei, Wuhan, 430074, China	Peer-to-Peer Networking and Applications	2022	19366442

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5171	A note on "Pythagorean uncertain linguistic hesitant fuzzy weighted averaging operator and its application in financial group decision making"	Appadoo S.S., Makhani M., Kumar A.	Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Makhani, M., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India	Soft Computing	2022	14327643
5172	Fabrication of carnation flower-like Bi ₃ TaO ₇ /Ag/BiVO ₄ ternary photocatalyst for boosting pollutants degradation under visible light	Nagar A., Basu S.	Nagar, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Solid State Chemistry	2022	224596
5173	Survivable virtual network embedding algorithm considering multiple node failure in IIoT environment	Zhang P., Gan P., Kumar N., Jiang C., Liu F., Zhang L.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Gan, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Jiang, C., Beijing National Research Center for Information Science and Technology, Tsinghua University, Beijing, 100084, China, Tsinghua Space Center, Tsinghua University, Beijing, 100084, China; Liu, F., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Zhang, L., State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, 100876, China	Journal of Network and Computer Applications	2022	10848045
5174	A low cost and efficient breast cancer detection method with a staircase shaped ultrawide band dielectric resonator antenna using monostatic radar based microwave imaging technique	Kaur G., Kaur A.	Kaur, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
5175	Color removal from secondary treated pulp & paper industry effluent using waste driven Fe-TiO ₂ composite	Puri S., Verma A.	Puri, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemosphere	2022	456535
5176	Synthesis, characterization and antitubercular activities of heterocyclic selenosemicarbazones	Malhi R., Jasinski J.P., Kaur M., Paul K., Sharma R.	Malhi, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Punjab, Phagwara, India; Jasinski, J.P., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH0343502001, United States; Kaur, M., Department of Chemistry, Keene State College, 229 Main Street, Keene, NH0343502001, United States; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Punjab, Phagwara, India	Bioorganic Chemistry	2022	452068
5177	Ag growth on the Ag ₂ Bi Rashba alloy	Mahatha S.K., Sheverdyaeva P.M., Carbone C., Moras P.	Mahatha, S.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Istituto di Struttura della Materia-CNR (ISM-CNR), SS 14 km 163.5, Trieste, I-34149, Italy; Sheverdyaeva, P.M., Istituto di Struttura della Materia-CNR (ISM-CNR), SS 14 km 163.5, Trieste, I-34149, Italy; Carbone, C., Istituto di Struttura della Materia-CNR (ISM-CNR), SS 14 km 163.5, Trieste, I-34149, Italy; Moras, P., Istituto di Struttura della Materia-CNR (ISM-CNR), SS 14 km 163.5, Trieste, I-34149, Italy	Surface Science	2022	396028
5178	Making a meta-surface soliton-ready	Sharma N., Jana S.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Zeitschrift für Naturforschung - Section A Journal of Physical Sciences	2022	9320784
5179	Single step synthesis of thiourea derived NbCpNq or NbOxNy embedded niobium nitride (NbN) nanoparticles at elevated temperature	Gupta A., Singhal V., Pandey O.P.	Gupta, A., Department of Mechanical Engineering, GLA University, Mathura, 281406, India, Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singhal, V., Metallurgical Research Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Mechanical engineering department, IMS Engineering College, Dasna, Ghaziabad, 201015, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Metallurgical Research Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Refractory Metals and Hard Materials	2022	2634368
5180	Algae: A cohesive tool for biodiesel production alongwith wastewater treatment	Brar P.K., Örmeci B., Dhir A.	Brar, P.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sustainable Chemistry and Pharmacy	2022	23525541

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5181	Computational design of immunogenic peptide constructs comprising multiple human leukocyte antigen restricted dengue virus envelope epitopes	Kaushal N., Jain S., Baranwal M.	Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Molecular Recognition	2022	9523499
5182	Generalized switched-capacitor multilevel inverter topology with self-balancing capacitors	Jena K., Panigrahi C.K., Gupta K.K., Kumar D., Dewangan N.K.	Jena, K., School of Electrical engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India; Panigrahi, C.K., School of Electrical engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Kumar, D., Department of Electrical Engineering, Maulana Azad National Institute of Technology (MANIT), Bhopal, India; Dewangan, N.K., Department of Electrical Engineering, National Institute of Technology (NIT), Raipur, India	Journal of Power Electronics	2022	15982092
5183	Performance Analysis of Switch and Stay Combining Diversity for Beaulieu-Xie Fading Model	Shankar H., Kansal A.	Shankar, H., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kansal, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Wireless Personal Communications	2022	9296212
5184	A High-Order Temperature-Compensated Subthreshold Voltage Reference Using Channel Length Modulation Compensation Technique	Thakur A., Pandey R., Rai S.K.	Thakur, A., ECED, TIET, Punjab, Patiala, India; Pandey, R., ECED, TIET, Punjab, Patiala, India; Rai, S.K., ECED, TIET, Punjab, Patiala, India	Wireless Personal Communications	2022	9296212
5185	A real-time obstacle avoidance and path tracking strategy for a mobile robot using machine-learning and vision-based approach	Singh R., Bera T.K., Chatti N.	Singh, R., Thapar Institute of Engineering and Technology, India; Bera, T.K., Thapar Institute of Engineering and Technology, India; Chatti, N., LARIS EA 7315, France	Simulation	2022	375497
5186	ChaseMe: A Heuristic Scheme for Electric Vehicles Mobility Management on Charging Stations in a Smart City Scenario	Kumar N., Chaudhry R., Kaiwartya O., Kumar N.	Kumar, N., Indian Institute of Technology Roorkee (IIT-R), The Department of Computer Science & Engineering, Roorkee, 247667, India; Chaudhry, R., Netaji Subhash University of Technology, The Department of Computer Engineering, Delhi, 110078, India; Kaiwartya, O., Nottingham Trent University, The School of Science and Technology, Nottingham, NG1 4FQ, United Kingdom; Kumar, N., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, The Department of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan, The King Abdul Aziz University, Jeddah, 21589, Saudi Arabia, The School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
5187	A meta-heuristic-based energy efficient route modeling for EV on non-identical road surfaces	Kumar A., Kumar R., Aggarwal A.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Neural Computing and Applications	2022	9410643
5188	Efficient deep learning-based semantic mapping approach using monocular vision for resource-limited mobile robots	Singh A., Narula R., Rashwan H.A., Abdel-Nasser M., Puig D., Nandi G.C.	Singh, A., Department of Computer Engineering and Mathematics, Universitat Rovira i Virgili, Tarragona, Spain, Center of Intelligent Robots, Indian Institute of Information Technology, Allahabad, India; Narula, R., Center of Intelligent Robots, Indian Institute of Information Technology, Allahabad, India, Thapar Institute of Engineering and Technology, Patiala, India; Rashwan, H.A., Department of Computer Engineering and Mathematics, Universitat Rovira i Virgili, Tarragona, Spain; Abdel-Nasser, M., Department of Electrical Engineering, Aswan University, Aswan, Egypt; Puig, D., Department of Computer Engineering and Mathematics, Universitat Rovira i Virgili, Tarragona, Spain; Nandi, G.C., Center of Intelligent Robots, Indian Institute of Information Technology, Allahabad, India	Neural Computing and Applications	2022	9410643
5189	Breast tumour detection using machine learning: review of selected methods from 2015 to 2021	Sharma G., Jindal N.	Sharma, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5190	A systematic review of state-of-the-art noise removal techniques in digital images	Bindal N., Ghumaan R.S., Sohi P.J.S., Sharma N., Joshi H., Garg B.	Bindal, N., Thapar Institute of Engineering and Technology PatialaPunjab, India; Ghumaan, R.S., Thapar Institute of Engineering and Technology PatialaPunjab, India; Sohi, P.J.S., Thapar Institute of Engineering and Technology PatialaPunjab, India; Sharma, N., Thapar Institute of Engineering and Technology PatialaPunjab, India; Joshi, H., Thapar Institute of Engineering and Technology PatialaPunjab, India; Garg, B., Thapar Institute of Engineering and Technology PatialaPunjab, India	Multimedia Tools and Applications	2022	13807501
5191	No reference image quality assessment with shape adaptive discrete wavelet features using neuro-wavelet model	Bagade J.V., Singh K., Dandawate Y.H.	Bagade, J.V., Department of Information Technology, Vishwakarma Institute of Information Technology, Maharashtra, Pune, India; Singh, K., Department of Electronics and Telecommunication, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Dandawate, Y.H., Department of Electronics and Telecommunication, Vishwakarma Institute of Information Technology, Maharashtra, Pune, India	Multimedia Tools and Applications	2022	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5192	Managerial cognition and environmental behavioral intentions: A behavioral reasoning theory perspective	Bhatt Y., Ghuman K.	Bhatt, Y., Department of Management Studies, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Ghuman, K., LM Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India	Corporate Social Responsibility and Environmental Management	2022	15353958
5193	Solving the shortest path problem on networks with fuzzy arc lengths using the complete ranking method	Verma T.	Verma, T., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Operational Research	2022	11092858
5194	An optimized morphology transform-based diagnostic computed tomography image enhancement using edge map	Rao K., Bansal M., Kaur G.	Rao, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Imaging Systems and Technology	2022	8999457
5195	Adaptive nonlinear control scheme for containment of COVID-19 spread	Prakash Tripathi J., Tripathi R.	Prakash Tripathi, J., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, India; Tripathi, R., Department of Physical Sciences, Mahatma Gandhi Chitrankoot Gramodaya Vishwavidyalaya, India	Simulation	2022	375497
5196	Design of CNTFET based Domino Wide OR Gates using Dual Chirality for Reducing Subthreshold Leakage Current	Magraiya V.K., Gupta T.K., Garg B.	Magraiya, V.K., Department of Electronics & Communication, MANIT, M.P., Bhopal, 462003, India; Gupta, T.K., Department of Electronics & Communication, MANIT, M.P., Bhopal, 462003, India; Garg, B., Electronics & Communication Engineering Department, TIET, Punjab, Patiala, 147001, India	Silicon	2022	1876990X
5197	The Persuasive Effect of Product Placements: Evidence from an Emerging Market	Kaur R., Sharma R.K., Bakshi A.	Kaur, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bakshi, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Media Psychology	2022	18641105
5198	Microwave drying of foamed tomato pulp: Optimization and mass transfer modelling	Qadri O.S.	Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Food Processing and Preservation	2022	1458892
5199	A Privacy-Preserving-Based Secure Framework Using Blockchain-Enabled Deep-Learning in Cooperative Intelligent Transport System	Kumar R., Kumar P., Tripathi R., Gupta G.P., Kumar N., Hassan M.M.	Kumar, R., National Institute of Technology at Raipur, Raipur, 492010, India; Kumar, P., National Institute of Technology at Raipur, Raipur, 492010, India; Tripathi, R., National Institute of Technology at Raipur, Raipur, 492010, India; Gupta, G.P., National Institute of Technology at Raipur, Raipur, 492010, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147001, India, University of Petroleum and Energy Studies, Dehradun, School of Computer Science, Uttarakhand248001, India, Asia University, Department of Computer Science and Information Engineering, Taizhong41354, Taiwan; Hassan, M.M., King Saud University, College of Computer and Information Sciences, Riyadh, 11543, Saudi Arabia	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
5200	ISHU: Interference Reduction Scheme for D2D Mobile Groups Using Uplink NOMA	Budhiraja I., Kumar N., Tyagi S.	Budhiraja, I., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taichung City, 41354, Taiwan, University of Petroleum and Energy Studies, School of Computing, Uttarakhand, Dehradun, 248007, India, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia; Tyagi, S., Thapar Institute of Engineering and Technology, Department of Ece, Punjab, Patiala, 147004, India	IEEE Transactions on Mobile Computing	2022	15361233
5201	Additive manufacturing of smart materials exhibiting 4-D properties: A state of art review	Kumar S., Singh R., Batish A., Singh T.P.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Punjab, Ludhiana, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
5202	Mechanistic insights into the mitigation of Aβ aggregation and protofibril destabilization by a d-enantiomeric decapeptide rk10	Singh K., Kaur A., Goyal D., Goyal B.	Singh, K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Goyal, D., Department of Chemistry, DAV College, Sector 10, Chandigarh, 160011, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Physical Chemistry Chemical Physics	2022	14639076
5203	A novel hybrid particle swarm optimization rat search algorithm for parameter estimation of solar PV and fuel cell model	Singla M.K., Nijhawan P., Oberoi A.S.	Singla, M.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering	2022	3321649
5204	Contamination monitoring system using IOT and GIS	Singh K.R., Wasalwar R., Dharmik A., Tiwari D.	Singh, K.R., Department of Computer Technology, Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra, India; Wasalwar, R., T-Mobile, Herndon, Virginia, Washington, DC, United States; Dharmik, A., 6Simplex Software Solutions Pvt Ltd, Nagpur, Maharashtra, India; Tiwari, D., T.I.E.T, Patiala, Punjab, India	Object Detection by Stereo Vision Images	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5205	Number-time interaction: Search for a common magnitude system in a cross-modal setting	Shukla A., Bapi R.S.	Shukla, A., Cognitive Science Lab, Kohli Centre on Intelligent Systems, International Institute of Information Technology, Telangana, Hyderabad, India, Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bapi, R.S., Cognitive Science Lab, Kohli Centre on Intelligent Systems, International Institute of Information Technology, Telangana, Hyderabad, India	Frontiers in Behavioral Neuroscience	2022	16625153
5206	A new hybrid proposition based on a Cuckoo search algorithm for parameter estimation of solar cells	Ganguli S., Goyal S., Nijhawan P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goyal, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Intelligent Green Technologies for Sustainable Smart Cities	2022	
5207	An overview of the intelligent green technologies for sustainable smart cities	Srivastava T., Virk S., Ganguli S.	Srivastava, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Virk, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Intelligent Green Technologies for Sustainable Smart Cities	2022	
5208	E-waste management and recycling issues: An overview	Srivastava S., Virk S., Hazra S., Ganguli S.	Srivastava, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Virk, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Hazra, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Intelligent Green Technologies for Sustainable Smart Cities	2022	
5209	Utilisation of crumb tire rubber in development of sustainable metakaolin based high strength concrete	Singh Sidhu A., Siddique R.	Singh Sidhu, A., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Construction and Building Materials	2022	9500618
5210	Effects of temperature-dependent thermal conductivity with variable Biot number on a fully developed flow in a porous channel using LTNE (local thermal nonequilibrium) model	Kaur R., Chandra A., Sharma S.	Kaur, R., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	International Journal of Modern Physics B	2022	2179792
5211	Ru(II)-Catalyzed Regioselective C(5)-H Functionalization of Quinazolinone-Coumarin Conjugates: Synthesis and Photophysical Studies	Singla D., Paul K.	Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Organic Chemistry	2022	223263
5212	Neural network supported flow characteristics analysis of heavy sour crude oil emulsified by ecofriendly bio-surfactant utilized as a replacement of sweet crude oil	Kumar P., Singh J., Singh S.	Kumar, P., Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi, 110016, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147002, India; Singh, S., Department of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India	Chemical Engineering Journal Advances	2022	26668211
5213	Striking dual functionality of iron pyrite-graphene oxide nanocomposites in water treating and water splitting reactions	Changotra R., He Q.S., Dhir A.	Changotra, R., Department of Engineering, Faculty of Agriculture, Dalhousie University, Truro, NS B2N 5E3, Canada; He, Q.S., Department of Engineering, Faculty of Agriculture, Dalhousie University, Truro, NS B2N 5E3, Canada; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chemical Engineering Journal	2022	13858947
5214	Decision framework with integrated methods for group decision-making under probabilistic hesitant fuzzy context and unknown weights	Garg H., Krishankumar R., Ravichandran K.S.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Krishankumar, R., Department of Computer Science and Engineering, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, TN, India; Ravichandran, K.S., Rajiv Gandhi National Institute of Youth Development, TN, Sriperumbudur, India	Expert Systems with Applications	2022	9574174
5215	Big Data for Healthcare Industry 4.0: Applications, challenges and future perspectives	Karatas M., Eriskin L., Deveci M., Pamucar D., Garg H.	Karatas, M., Department of Industrial Engineering, National Defence University, Turkish Naval Academy - 34940 Tuzla, Istanbul, Turkey; Eriskin, L., Department of Industrial Engineering, National Defence University, Turkish Naval Academy - 34940 Tuzla, Istanbul, Turkey; Deveci, M., Department of Industrial Engineering, National Defence University, Turkish Naval Academy - 34940 Tuzla, Istanbul, Turkey; Pamucar, D., Department of Logistics, Military Academy, University of Defence in Belgrade, Belgrade, 11000, Serbia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University Patiala, Punjab 147004, India	Expert Systems with Applications	2022	9574174

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5216	Grounded Meminductor Emulator Using Operational Amplifier-Based Generalized Impedance Converter and Its Application in High Pass Filter	Gupta A., Rai S.K., Gupta M.	Gupta, A., ECE Department, Netaji Subhas University of Technology, Delhi, India; Rai, S.K., ECE Department, Thapar Institute of Engineering and Technology, Punjab, India; Gupta, M., ECE Department, Netaji Subhas University of Technology, Delhi, India	International Journal of Electrical and Electronics Research	2022	2347470X
5217	“Turn-On” monopodal and dipodal nanopores for serum albumins - a case of shift in selectivity towards BSA and a Z- to U-like conformational change	Dhiman S., Kour R., Kumar G., Kaur S., Luxami V., Singh P., Kumar S.	Dhiman, S., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Punjab, Amritsar, India; Kour, R., Department of Botanical and Environment Science, Guru Nanak Dev University, Amritsar, 143005, India; Kumar, G., Department of Chemistry, M.M. Engineering College, Maharashi Markandeshwar University, Mullana, 133207, India; Kaur, S., Department of Botanical and Environment Science, Guru Nanak Dev University, Amritsar, 143005, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, P., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Punjab, Amritsar, India; Kumar, S., Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Punjab, Amritsar, India	Materials Chemistry Frontiers	2022	20521537
5218	Magnetic Halloysite Nanotube/ α -Amylase Based Nanobiocatalytic Transformation of Food Processing Waste into an Active Fermentation Ingredient	Sillu D., Agnihotri S., Reddy M.S.	Sillu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Kundli, Haryana, Sonapat, 131028, India, Centre for Advanced Translational Research in Food Nano-Biotechnology (CATR-FNB), National Institute of Food Technology Entrepreneurship and Management, Kundli, Haryana, Sonapat, 131028, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India	ACS Sustainable Chemistry and Engineering	2022	21680485
5219	TransLearn: A clustering based knowledge transfer strategy for improved time series forecasting	Kohli G.S., Kaur P., Singh A., Bedi J.	Kohli, G.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Knowledge-Based Systems	2022	9507051
5220	Autism Spectrum Disorder Detection Using AI and IoT	Shelke N.A., Rao S., Verma A.K., Kasana S.S.	Shelke, N.A., Computer Science and Engineering Department, Bennett University, UP, Greater Noida, India; Rao, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, A.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	ACM International Conference Proceeding Series	2022	
5221	FXR-A-DCNN: Facial Emotion Recognition with Attention mechanism using Deep Convolution Neural Network	Verma P., Aggrawal V., Maggu J.	Verma, P., Jaypee Institute of Information Technology, India; Aggrawal, V., Jaypee Institute of Information Technology, India; Maggu, J., Thapar Institute of Engineering and Technology, India	ACM International Conference Proceeding Series	2022	
5222	Deepfake Creation and Detection using Ensemble Deep Learning Models	Rao S., Shelke N.A., Goel A., Bansal H.	Rao, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shelke, N.A., Computer Science and Engineering Department, Bennett University, UP, Greater Noida, India; Goel, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bansal, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	ACM International Conference Proceeding Series	2022	
5223	Fractional order sliding mode control based on delayed output observer for unmanned aircraft system	Bist A., Sondhi S.	Bist, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sondhi, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Aircraft Engineering and Aerospace Technology	2022	17488842
5224	Kinematic and dynamic analysis of a dexterouse multi-fingered delta robot for object catching	Kansal S., Mukherjee S.	Kansal, S., Computer Science Engineering Department, Thapar Institute Of Engineering Technology, Punjab, Patiala, India; Mukherjee, S., Mechanical Engineering Department, Indian Institute Of Technology Delhi, New Delhi, India	Robotica	2022	2635747
5225	IMPACT OF CSR EXPENDITURE COMPLIANCE ON FIRM VALUE USING P/B-ROE VALUATION MODEL AND INSTRUMENTAL APPROACH	Gupta P.K., Garg A.	Gupta, P.K., Thapar Institute of Engineering and Technology (Deemed-to-be-University), Patiala, India; Garg, A., Thapar Institute of Engineering and Technology (Deemed-to-be-University), Patiala, India	Studies in Business and Economics	2022	18424120
5226	Synthesis and Characterization of TiO ₂ nanoparticles using Butea monosperma and Woodfordia fruticosa: Green approach	Nidhi S., Sachin G., Kiran, Rajeev K., Shivali G.	Nidhi, S., Department of Chemistry, Sri Sai University, Himachal Pradesh, Palampur, 176061, India; Sachin, G., School of Electronics and Electrical Engineering, Lovely Professional University, Phagwara, India; Kiran, Department of Chemistry, Sri Sai University, Himachal Pradesh, Palampur, 176061, India; Rajeev, K., School of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Shivali, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Research Journal of Chemistry and Environment	2022	9720626

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5227	Fusion studies in C 12 + W 182,184,186 reactions at energies below and near the Coulomb barrier	Sanila S., Vinodkumar A.M., Babu B.R.S., Madhavan N., Nath S., Gehlot J., Biswas R., Kumar C., Gonika, Rani A., Parihari A., Viswakarma D., Noor S., Prasad E.	Sanila, S., Department of Physics, University of Calicut, Kerala, 673635, India; Vinodkumar, A.M., Department of Physics, University of Calicut, Kerala, 673635, India; Babu, B.R.S., Department of Physics, University of Calicut, Kerala, 673635, India; Madhavan, N., Nuclear Physics Group, Inter University Accelerator Centre, New Delhi, 110067, India; Nath, S., Nuclear Physics Group, Inter University Accelerator Centre, New Delhi, 110067, India; Gehlot, J., Nuclear Physics Group, Inter University Accelerator Centre, New Delhi, 110067, India; Biswas, R., Nuclear Physics Group, Inter University Accelerator Centre, New Delhi, 110067, India; Kumar, C., Nuclear Physics Group, Inter University Accelerator Centre, New Delhi, 110067, India; Gonika, Nuclear Physics Group, Inter University Accelerator Centre, New Delhi, 110067, India; Rani, A., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Parihari, A., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Viswakarma, D., Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Noor, S., Department of Physics, Thapar University, Patiala, 147004, India; Prasad, E., Department of Physics, School of Physical Sciences, Central University of Kerala, Periya, The Aswini Hills671320, India	Physical Review C	2022	24699985
5228	Effect of Tax Knowledge and Technological Shift in Tax System on Business Performance: A PLS-SEM Analysis	Bhalla N., Sharma R.K., Kaur I.	Bhalla, N., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Kaur, I., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Punjab, Chandigarh, 140507, India	Sustainability (Switzerland)	2022	20711050
5229	Impact of Electric Vehicles on Energy Efficiency with Energy Boosters in Coordination for Sustainable Energy in Smart Cities	Kumar P., Nikolovski S., Ali I., Thomas M.S., Ahuja H.	Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering, Computer Science and Information Technology, J. J. Strossmayer University of Osijek, K. Trpimira 2B, Osijek, HR-31000, Croatia; Ali, I., Department of Electrical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, 110025, India; Thomas, M.S., Department of Electrical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, 110025, India; Ahuja, H., Department of Electrical and Electronics Engineering, Ajay Kumar Garg Engineering College, Ghaziabad, 201009, India	Processes	2022	22279717
5230	Machine learning based framework for network intrusion detection system using stacking ensemble technique	Parashar A., Saggu K.S., Garg A.	Parashar, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Saggu, K.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India; Garg, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	Indian Journal of Engineering and Materials Sciences	2022	9714588
5231	A Hybrid Group Decision Approach Based on MARCOS and Regret Theory for Pharmaceutical Enterprises Assessment under a Single-Valued Neutrosophic Scenario	Rong Y., Niu W., Garg H., Liu Y., Yu L.	Rong, Y., School of Management, Shanghai University, Shanghai, 200444, China; Niu, W., School of Management, Shanghai University, Shanghai, 200444, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Liu, Y., Data Recovery Key Laboratory of Sichuan Province, Neijiang Normal University, Neijiang, 641100, China; Yu, L., School of Management, Shanghai University, Shanghai, 200444, China	Systems	2022	20798954
5232	SDH: Secure Data Hiding in Fused Medical Image for Smart Healthcare	Anand A., Singh A.K.	Anand, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Singh, A.K., National Institute of Technology Patna, Department of Computer Science and Engineering, Bihar, Patna, 800005, India	IEEE Transactions on Computational Social Systems	2022	2329924X
5233	Implementation of the SutteARIMA method to predict short-term cases of stock market and COVID-19 pandemic in USA	Singh P.K., Chouhan A., Bhatt R.K., Kiran R., Ahmar A.S.	Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chouhan, A., Department of Economics, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India; Bhatt, R.K., Department of Economics, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ahmar, A.S., Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Makassar, Makassar, 90224, Indonesia	Quality and Quantity	2022	335177
5234	Isospin dependent properties of the isotopic chains of Scandium and Titanium nuclei within the relativistic mean-field formalism * * Supported by Science and Engineering Research Board (SERB) (CRG/2021/001229), FOSTECT (FOSTECT. 2019B.04), FAPESP (2017/05660-0)	Yadav P.K., Kumar R., Bhuyan M.	Yadav, P.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	Chinese Physics C	2022	16741137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5235	Micro-scratching behavior of heat-treated cutting chips of Inconel 718	Yadav P.C., Setia P., Sahu S.	Yadav, P.C., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Setia, P., Department of Materials Science and Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India; Sahu, S., Directorate of Nanomaterials, Defence Materials and Stores Research and Development Establishment, Kanpur, 208013, India, Department of Mechanical Engineering, University of Southampton, Highfield Campus, Southampton, SO17 1BJ, United Kingdom	Materials Today Communications	2022	23524928
5236	A secure and lightweight anonymous mutual authentication scheme for wearable devices in Medical Internet of Things	Gupta A., Tripathi M., Muhuri S., Singal G., Kumar N.	Gupta, A., Bennett University, Greater Noida, Uttar Pradesh, India; Tripathi, M., Malaviya National Institute of Technology Jaipur, Rajasthan, India; Muhuri, S., Thapar Institute of Engineering & Technology, Patiala, India; Singal, G., Netaji Subhas University of Technology, Delhi, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Journal of Information Security and Applications	2022	22142134
5237	Development of artificial intelligence-based neural network prediction model for responses of additive manufactured polylactic acid parts	Singh J., Goyal K.K., Kumar R., Gupta V.	Singh, J., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, India; Goyal, K.K., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, India; Kumar, R., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Polymer Composites	2022	2728397
5238	An intelligent approach to predict thermal injuries during orthopaedic bone drilling using machine learning	Agarwal R., Singh J., Gupta V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022	16785878
5239	Predicting the compressive strength of additively manufactured PLA-based orthopedic bone screws: A machine learning framework	Agarwal R., Singh J., Gupta V.	Agarwal, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Polymer Composites	2022	2728397
5240	Effect of low-temperature annealing on two-different severely cold-rolled steels	Poddar D., Chintia A.R., Jayabalan B., Bhattacharya B., Ghosh C., Singh V.K.	Poddar, D., R&D, Tata Steel Ltd, Jharkhand, Jamshedpur, 831007, India; Chintia, A.R., R&D, Tata Steel Ltd, Jharkhand, Jamshedpur, 831007, India; Jayabalan, B., R&D, Tata Steel Ltd, Jharkhand, Jamshedpur, 831007, India; Bhattacharya, B., R&D, Tata Steel Ltd, Jharkhand, Jamshedpur, 831007, India; Ghosh, C., R&D, Tata Steel Ltd, Jharkhand, Jamshedpur, 831007, India; Singh, V.K., Ex-Intern at Tata Steel Ltd., R&D, from Thapar Institute of Engineering & Technology, Bhadson Road, Patiala, India	Materials Today Communications	2022	23524928
5241	Nanofluid filled enclosures: potential photo-thermal energy conversion and sensible heat storage devices	Singh I., Sehgal S.S., Khullar V.	Singh, I., Mechanical Engineering Department, Chandigarh University, Gharuan, Mohali 140413, Punjab, India; Sehgal, S.S., Mechanical Engineering Department, Chandigarh University, Gharuan, Mohali 140413, Punjab, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Thermal Science and Engineering Progress	2022	24519049
5242	Intelligent solutions for earthquake data analysis and prediction for future smart cities	Dey B., Dikshit P., Sehgal S., Trehan V., Kumar Sehgal V.	Dey, B., Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh, India; Dikshit, P., Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh, India; Sehgal, S., Department of Computer Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Trehan, V., Department of Computer Science, University at Albany SUNY, Albany, NY 12222, United States; Kumar Sehgal, V., Department of Computer Science and Engineering and Information Technology, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh, India	Computers and Industrial Engineering	2022	3608352
5243	Photocatalytic degradation of textile dyes using phycosynthesised ZnO nanoparticles	Prerna, Agarwal H., Goyal D.	Prerna, Department of Biotechnology, Thapar Institute of Engineering and Technology, (Deemed University), Punjab, Patiala 147 004, India; Agarwal, H., Department of Physics, Banaras Hindu University, Uttar Pradesh, Varanasi, India, Laboratory of Crystallography, University of Bayreuth, Bayreuth, Germany; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, (Deemed University), Punjab, Patiala 147 004, India	Inorganic Chemistry Communications	2022	13877003
5244	In silico screening and analysis of single-nucleotide polymorphic variants of the ABC2 gene affecting Dubin-Johnson syndrome	Sharma P., Sharma S.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Arab Journal of Gastroenterology	2022	16871979

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5245	PERFECT: Positional-Forgery Resistant Traffic Gap Estimation for Connected Intersection Management	Anand S., Raja G., Kumar N., Narayanan R., Raja A., Karthik K.B.V.	Anand, S., Seton Hall University, South Orange, NJ 07079, United States; Raja, G., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering 40704, Taiwan, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India; Narayanan, R., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India; Raja, A., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India; Karthik, K.B.V., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India	IEEE Transactions on Vehicular Technology	2022	189545
5246	DeepEvap: Deep reinforcement learning based ensemble approach for estimating reference evapotranspiration	Sharma G., Singh A., Jain S.	Sharma, G., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Singh, A., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering & Technology, India	Applied Soft Computing	2022	15684946
5247	Design of quad-band polarization insensitive ultra-thin compact metamaterial based absorber for terahertz applications	Puri V., Singh H.S.	Puri, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Results in Optics	2022	26669501
5248	Non-isothermal solid-state synthesis kinetics of the tetragonal barium titanate	Kainth S., Choudhary R., Upadhyay S., Bajaj P., Sharma P., Brar L.K., Pandey O.P.	Kainth, S., TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Bajaj, P., Department of Civil Engineering, National Institute of Technology, Raipur, 492010, India; Sharma, P., TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Solid State Chemistry	2022	224596
5249	A note on "Dealer using a new trapezoidal cubic hesitant fuzzy TOPSIS method and application to group decision-making program"	Appadoo S.S., Makhan M., Kumar A.	Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Makhan, M., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India	Soft Computing	2022	14327643
5250	Influence of heat treatment (routes) on the microstructure and mechanical properties of 300M ultra high strength steel	Kasana S.S., Sharma S., Pandey O.P.	Kasana, S.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Star Wire (India) Ltd., Haryana, Ballabgarh, 121004, India; Sharma, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Mechanical Engineering Department, Maharishi Markandeshwar (Deemed to Be University), Mullana, Haryana, Ambala, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Archives of Civil and Mechanical Engineering	2022	16449665
5251	Novel tablet-like Bi3TaO7/BiOCl 2D-2D heterostructure with heightened charge segregation for Visible-light-driven photocatalytic pollutants degradation	Nagar A., Basu S.	Nagar, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Solid State Chemistry	2022	224596
5252	Doxycycline Adsorptive Interaction with Mesoporous MCM-41: Kinetic and Isotherm Modelling with Thermodynamics	Saxena M., Kushwaha J.P., Kulshreshtha S., Kaur G., Singh N.	Saxena, M., Department of Biotechnology, Institute of Engineering and Technology, Bundelkhand University, Uttar Pradesh, Jhansi, India, Amity Institute of Biotechnology, Amity University Jaipur, NH-11C, Rajasthan, Jaipur, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Kulshreshtha, S., Amity Institute of Biotechnology, Amity University Jaipur, NH-11C, Rajasthan, Jaipur, India; Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India	Chemistry Africa	2022	25225758
5253	Optimization of vacuum drying and determination of functional properties of Kadam (Neolamarckia cadamba) fruit powder	Osama K., Mujtaba A., Siddiqui M.H., Qadri O.S., Younis K.	Osama, K., Department of Bioengineering, Integral University Lucknow, Lucknow, India; Mujtaba, A., Department of Bioengineering, Integral University Lucknow, Lucknow, India; Siddiqui, M.H., Department of Bioengineering, Integral University Lucknow, Lucknow, India; Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Younis, K., Department of Bioengineering, Integral University Lucknow, Lucknow, India	Journal of Food Processing and Preservation	2022	1458892
5254	Delayed-feedback control in multi-lane traffic system	Madaan N., Sharma S.	Madaan, N., Department of Mathematics, UIS, Chandigarh University, Gharuan, Mohali, 140413, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica A: Statistical Mechanics and its Applications	2022	3784371

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5255	Hybrid optimisation-based robust watermarking using denoising convolutional neural network	Mahto D.K., Anand A., Singh A.K.	Mahto, D.K., Department of CSE, NIT Patna, Patna, India; Anand, A., Department of CSE, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of CSE, NIT Patna, Patna, India	Soft Computing	2022	14327643
5256	Electro-oxidation treatment of sewage water using mixed metal oxide anodes for microbial decontamination	Chandra P., Verma A., Choudhury D.	Chandra, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India, TIET-VT (Virginia Tech-USA) Centre of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India, TIET-VT (Virginia Tech-USA) Centre of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Water Process Engineering	2022	22147144
5257	Molecular cloning, expression and in silico analyses of calcium-dependent protein kinase 2 (CDPK2) in potato (<i>Solanum tuberosum</i> L.)	Kaur G., Das N.	Kaur, G., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	South African Journal of Botany	2022	2546299
5258	Investigating transformation kinetics of yttrium hydroxide to yttrium oxide	Priya R., Kainth S., Kumar D., Sharma P., Diwan P.K., Pandey O.P.	Priya, R., Department of Physics, Chandigarh University, Mohali, Punjab140413, India; Kainth, S., Virginia Tech Center for Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar, D., School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Uttar Pradesh, Varanasi, 221005, India; Sharma, P., Virginia Tech Center for Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136119, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India	Materials Chemistry and Physics	2022	2540584
5259	OTA and CDTA-based new memristor-less meminductor emulators and their applications	Singh A., Rai S.K.	Singh, A., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Computational Electronics	2022	15698025
5260	A novel fusion based convolutional neural network approach for classification of COVID-19 from chest X-ray images	Sharma A., Singh K., Koundal D.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Koundal, D., Department of Virtualization, School of Computer Science, University of Petroleum & Energy Studies, Ultrakhand, Dehradun, India	Biomedical Signal Processing and Control	2022	17468094
5261	Coexisting ferromagnetic component and negative magnetoresistance at low temperature in single crystals of the VdW material GaGeTe	Roychowdhury A., Dalui T.K., Ghose P.K., Mahatha S.K., Wind N., Rosnagel K., Majumdar S., Giri S.	Roychowdhury, A., School of Physical Sciences, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, 700032, India; Dalui, T.K., School of Physical Sciences, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, 700032, India; Ghose, P.K., School of Physical Sciences, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, 700032, India; Mahatha, S.K., Ruprecht Haensel Laboratory, Deutsches Elektronen-Synchrotron DESY, Hamburg, D-22607, Germany, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Wind, N., University of Hamburg, Institute of Experimental Physics, Hamburg, D-22761, Germany; Rosnagel, K., Ruprecht Haensel Laboratory, Deutsches Elektronen-Synchrotron DESY, Hamburg, D-22607, Germany, Institute of Experimental and Applied Physics, Kiel UniversityD-24098, Germany; Majumdar, S., School of Physical Sciences, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, 700032, India; Giri, S., School of Physical Sciences, Indian Association for the Cultivation of Science, Jadavpur, Kolkata, 700032, India	Journal of Solid State Chemistry	2022	224596
5262	A low jitter and fast locking all digital phase locked loop with flash based time to digital converter and gain calibrated voltage controlled oscillator	Sahani J.K., Singh A., Agarwal A.	Sahani, J.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2022	989886
5263	Effect of multi-layer graphene on microstructure and mechanical properties of titanium-based composites	Sharma D., Singla V.K., Singh S.	Sharma, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singla, V.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5264	MS2GAH: Multi-label semantic supervised graph attention hashing for robust cross-modal retrieval	Duan Y., Chen N., Zhang P., Kumar N., Chang L., Wen W.	Duan, Y., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Chen, N., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Chang, L., Research Institute of Petroleum Exploration and Development, PetroChina Tarim Oilfield Company, Korla, 84100, China; Wen, W., School of Computer Science and Cyber Engineering, Guangzhou University, Guangzhou, 510006, China	Pattern Recognition	2022	313203
5265	On the performance evaluation of object classification models in low altitude aerial data	Mittal P., Sharma A., Singh R., Sangaiah A.K.	Mittal, P., UIET Panjab University, Chandigarh, India; Sharma, A., UIET Panjab University, Chandigarh, India; Singh, R., Thapar Institute of Engineering and Technology, Patiala, India; Sangaiah, A.K., School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, India, Department of Industrial Engineering and Management, National Yunlin University of Science and Technology, Douliu, Taiwan	Journal of Supercomputing	2022	9208542
5266	A Machine Learning Driven PVT-Robust VCO with Enhanced Linearity Range	Kandpal N., Singh A., Agarwal A.	Kandpal, N., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Circuits, Systems, and Signal Processing	2022	0278081X
5267	State-of-the-art techniques using pre-operative brain MRI scans for survival prediction of glioblastoma multiforme patients and future research directions	Kaur G., Rana P.S., Arora V.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Arora, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Clinical and Translational Imaging	2022	22815872
5268	Efficient degradation of doxycycline and ofloxacin in an aqueous environment using Fe and Cu doped TiO ₂ -SiO ₂ photocatalyst under sunlight	Rani S., Garg A., Singh N.	Rani, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, A., Department of Chemical Engineering, National Institute of Technology, Hamirpur, 177005, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Engineering Research	2022	12261025
5269	3D Face Reconstruction in Deep Learning Era: A Survey	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, India	Archives of Computational Methods in Engineering	2022	11343060
5270	Possibilistic multiattribute decision making for water resource management problem under single-valued bipolar neutrosophic environment	Garai T., Garg H.	Garai, T., Department of Mathematics, Syamsundar College, West Bengal, Shyamsundar, Purba Bardhaman, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, India	International Journal of Intelligent Systems	2022	8848173
5271	State-of-the-Art Machine Learning Techniques for Diagnosis of Alzheimer's Disease from MR-Images: A Systematic Review	Goyal P., Rani R., Singh K.	Goyal, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Archives of Computational Methods in Engineering	2022	11343060
5272	In-vitro Biological Evaluation of Diopside Bio-ceramic Synthesized From Sustainable Agro-food Waste Ashes	Punj S., Srivastava N., Baranwal M., Singh K.	Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Srivastava, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Silicon	2022	1876990X
5273	Transportation of TiO ₂ /GO-H ₂ O hybrid nanofluid between two discs	Negi A.S., Kumar B., Kumar A., Kumari C., Prachi K., Chamkha A.J.	Negi, A.S., Department of Mathematics, Birla Campus HNB Garhwal Central University, Uttarakhand, Srinagar Garhwal, 246174, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, A., Department of Mathematics, Birla Campus HNB Garhwal Central University, Uttarakhand, Srinagar Garhwal, 246174, India; Kumari, C., Department of Mathematics and Computing, Indian Institute of Technology (ISM), Jharkhand, Dhanbad, 826004, India; Prachi, K., Department of Applied Sciences and Humanities, RIT, Roorkee, 247667, India; Chamkha, A.J., Faculty of Engineering, Kuwait College of Science and Technology, Doha District, Kuwait, Center of Excellence in Desalination Technology, King Abdulaziz University, P.O. Box 80200, Jeddah, 21589, Saudi Arabia	Indian Journal of Physics	2022	9731458

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5274	Increasing the photocatalytic efficiency of ZnWO ₄ by synthesizing a Bi ₂ WO ₆ /ZnWO ₄ composite photocatalyst	Kumar P., Verma S., Korošin N.Č., Žener B., Štangar U.L.	Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Korošin, N.Č., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Žener, B., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia	Catalysis Today	2022	9205861
5275	An approximate model matching technique for controller design of linear time-invariant systems using hybrid firefly-based algorithms	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training & Research, West Bengal, Kolkata, 700106, India	ISA Transactions	2022	190578
5276	Fusion of AI techniques to tackle COVID-19 pandemic: models, incidence rates, and future trends	Shah H., Shah S., Tanwar S., Gupta R., Kumar N.	Shah, H., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Shah, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, King Abdul Aziz University, Jeddah, Saudi Arabia	Multimedia Systems	2022	9424962
5277	Effect of parametric enhancements on naked mole-rat algorithm for global optimization	Singh G., Singh U., Salgotra R.	Singh, G., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Salgotra, R., School of Mechanical Engineering, Iby and Aladar Fleischman Faculty of Engineering, Tel Aviv University, Tel Aviv, Israel	Engineering with Computers	2022	1770667
5278	Hash-balanced binary tree-based public auditing in vehicular edge computing and networks	Liu M., Fan K., Kumar N., He D., Shi W.	Liu, M., School of Computer and Communication Engineering, Northeastern University, Qinhuangdao, China; Fan, K., School of Computer and Communication Engineering, Northeastern University, Shenyang, China; Kumar, N., School of Computer Science and Engineering, Thapar University, Patiala, India; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Shi, W., School of Computer and Communication Engineering, Northeastern University, Qinhuangdao, China	International Journal of Communication Systems	2022	10745351
5279	Utilization of Waste and Renewable Material-HCM as an Efficient Adsorbent for Heavy Metal Ions Removal: A Study of Adsorption Isotherms and Kinetics**	Aulakh M.K., Kaur H., Bansal M., Pal B., Singh S.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Chemistry, University Institute of Sciences, Chandigarh University, Gharuan, Mohali, 140413, India; Kaur, H., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bansal, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ChemistrySelect	2022	23656549

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5280	Slow Magnetic Relaxation of Dy Adatoms with In-Plane Magnetic Anisotropy on a Two-Dimensional Electron Gas	Bellini V., Rusponi S., Kolorenč J., Mahatha S.K., Valbuena M.A., Persichetti L., Pivetta M., Sorokin B.V., Merk D., Reynaud S., Sblendorio D., Stepanow S., Nistor C., Gargiani P., Betto D., Mugarza A., Gambardella P., Brune H., Carbone C., Barla A.	Bellini, V., S3-Istituto di Nanoscienze-CNR, Via Campi 213/A, Modena, I-41125, Italy; Rusponi, S., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Kolorenč, J., Institute of Physics (FZU), Czech Academy of Sciences, Na Slovance 2, Prague, CZ-182 21, Czech Republic; Mahatha, S.K., Istituto di Struttura della Materia (ISM), Consiglio Nazionale Delle Ricerche (CNR), Trieste, I-34149, Italy, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Valbuena, M.A., Catalan Institute of Nanoscience and Nanotechnology (ICN2), Csic and Bist, Campus Uab, Barcelona, Bellaterra, E-08193, Spain, Instituto Madrileño de Estudios Avanzados en Nanociencia (IMDEA Nanoscience), Madrid, E-28049, Spain; Persichetti, L., Department of Materials, Eth Zurich, Zurich, CH-8093, Switzerland, Dipartimento di Fisica, Università di Roma "tor Vergata", Roma, I-00133, Italy; Pivetta, M., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Sorokin, B.V., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Merk, D., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Reynaud, S., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Sblendorio, D., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Stepanow, S., Department of Materials, Eth Zurich, Zurich, CH-8093, Switzerland; Nistor, C., Department of Materials, Eth Zurich, Zurich, CH-8093, Switzerland; Gargiani, P., Alba Synchrotron Light Source, Cerdanyola del Vallès, E-08290, Spain; Betto, D., European Synchrotron Radiation Facility, Cedex, Grenoble, F-38043, France; Mugarza, A., Catalan Institute of Nanoscience and Nanotechnology (ICN2), Csic and Bist, Campus Uab, Barcelona, Bellaterra, E-08193, Spain, Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, E-08010, Spain; Gambardella, P., Department of Materials, Eth Zurich, Zurich, CH-8093, Switzerland; Brune, H., Institute of Physics, Ecole Polytechnique Fédérale de Lausanne (EPFL), Station 3, Lausanne, CH-1015, Switzerland; Carbone, C., Istituto di Struttura della Materia (ISM), Consiglio Nazionale Delle Ricerche (CNR), Trieste, I-34149, Italy; Barla, A., Istituto di Struttura della Materia (ISM), Consiglio Nazionale Delle Ricerche (CNR), Trieste, I-34149, Italy	ACS Nano	2022	19360851
5281	Research scholars and faculty members perception and participation in collection development of university libraries of Northern India – a comparative study	Singh H., Mahajan P.	Singh, H., Central Library, Thapar Institute of Engineering and Technology, Patiala, India; Mahajan, P., Department of Library and Information Science, Panjab University, Chandigarh, India	Global Knowledge, Memory and Communication	2022	25149342
5282	FLP-ID: Fuzzy-based link prediction in multiplex social networks using information diffusion perspective	Singh S.S., Srivastva D., Kumar A., Srivastava V.	Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Srivastva, D., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Kumar, A., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Srivastava, V., Department of Computer Science and Engineering, Bennett University, Greater Noida, India	Knowledge-Based Systems	2022	9507051
5283	Users' response toward online doctor consultation platforms: SOR approach	Goyal S., Chauhan S., Gupta P.	Goyal, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Chauhan, S., Jindal Global Business School, Jindal Global University, OP, Sonipat, India; Gupta, P., Public Policy and Governance, Management Development Institute Gurgaon, Gurugram, India	Management Decision	2022	251747
5284	Pasta properties of the neutron star within effective relativistic mean-field model	Parmar V., Das H.C., Kumar A., Sharma M.K., Arumugam P., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, H.C., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Kumar, A., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Kumar, A., Department of Physics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arumugam, P., Department of Physics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	Physical Review D	2022	24700010
5285	Growth of different nanocrystalline phases in ZnO–Li ₂ O–B ₂ O ₃ –TiO ₂ –V ₂ O ₅ glass and their effect on photoluminescence and photocatalytic activity	Arya S.K., Chhina M.K., Choudhary R., Dua V., Singh K.	Arya, S.K., Department of Applied Sciences and Humanities, ABES Institute of Technology, U.P, Ghaziabad, 201009, India; Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dua, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Ceramics International	2022	2728842

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5286	A Sub-1-V CMOS Voltage Reference with High PSRR and High Accuracy	Thakur A., Pandey R., Rai S.K.	Thakur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Circuits, Systems and Computers	2022	2181266
5287	Enhanced photo-degradation of N-methyl-2-pyrrolidone (NMP): Influence of matrix components, kinetic study and artificial neural network modelling	Kumar P., Verma S., Kaur R., Papac J., Kušić H., Štangar U.L.	Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kaur, R., Laboratory for Open Systems and Networks, Jožef Stefan Institute, Ljubljana, 1000, Slovenia; Papac, J., Faculty of Chemical Engineering and Technology, University of Zagreb, Marulićev trg 19, Zagreb, 10000, Croatia; Kušić, H., Faculty of Chemical Engineering and Technology, University of Zagreb, Marulićev trg 19, Zagreb, 10000, Croatia; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia	Journal of Hazardous Materials	2022	3043894
5288	Coal bottom ash as constituent binder and aggregate replacement in cementitious and geopolymer composites: A review	Khaw Le Ping K., Cheah C.B., Liew J.J., Siddique R., Tangchirapat W., Megat Johari M.A.B.	Khaw Le Ping, K., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang11800, Malaysia; Cheah, C.B., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang11800, Malaysia; Liew, J.J., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang11800, Malaysia; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tangchirapat, W., Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Thailand; Megat Johari, M.A.B., School of Civil Engineering, Universiti Sains Malaysia, Penang14300, Malaysia	Journal of Building Engineering	2022	23527102
5289	Design of low cost waterborne polyvinyl alcohol coatings using plasticizer polyethylene glycol to minimize the residual solvent and coating defects	Rawat M., Ahuja S.	Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India	Journal of Applied Polymer Science	2022	218995
5290	Power-efficient optimized clustering method with intelligent fog computing for wireless sensor networks	Jain A., Bhardwaj A.K.	Jain, A., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Chandigarh, India	Concurrency and Computation: Practice and Experience	2022	15320626
5291	An efficient front-to-back depth-buffer algorithm for real-time rendering of partially occluded game objects in absence of GPU	Shivani S.	Shivani, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
5292	Reutilization of textile sludge stabilized with low grade-MgO as a replacement of cement in mortars	Goyal S., Siddique R., Sharma D., Jain G.	Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jain, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Construction and Building Materials	2022	9500618
5293	Do Macroeconomic Variables Discriminate Stock Market Returns in Pre and Post-Tax Reform Era?	Sharma R.K., Bhalla N., Kaur I.	Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Bhalla, N., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Kaur, I., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Deemed University, India	SCMS Journal of Indian Management	2022	9733167
5294	A NOVEL DYNAMIC DATA ENVELOPMENT ANALYSIS APPROACH WITH PARABOLIC FUZZY DATA: CASE STUDY IN THE INDIAN BANKING SECTOR	Kaur R., Puri J.	Kaur, R., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Puri, J., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	RAIRO - Operations Research	2022	28047303
5295	Single-step in situ synthesis of MoO ₂ -faceted structures as highly efficient HER electrocatalysts and electrode materials for pseudocapacitors	Mir R.A., Upadhyay S., Rather R.A., Thorpe S.J., Pandey O.P.	Mir, R.A., Virginia Tech (VT)-Center of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology (TIET), VT-CEEMS-TIET, Punjab, India, Department of Materials Science Engineering (MSE), University of Toronto, Canada; Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Rather, R.A., Department of Civil and Environmental Engineering, Auburn University, Auburn, AL, United States; Thorpe, S.J., Department of Materials Science Engineering (MSE), University of Toronto, Canada; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Energy Advances	2022	27531457

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5296	A Review on Autonomous Vehicles: Progress, Methods and Challenges	Parekh D., Poddar N., Rajpurkar A., Chahal M., Kumar N., Joshi G.P., Cho W.	Parekh, D., Department of Computer Science and Engineering, NMIMS University, Mumbai, 400056, India; Poddar, N., Department of Computer Science and Engineering, NMIMS University, Mumbai, 400056, India; Rajpurkar, A., Department of Computer Science and Engineering, NMIMS University, Mumbai, 400056, India; Chahal, M., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, 147004, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Joshi, G.P., Department of Computer Science and Engineering, Sejong University, Seoul, 05006, South Korea; Cho, W., Department of Software Convergence, Daegu Catholic University, Gyeongsan, 38430, South Korea	Electronics (Switzerland)	2022	20799292
5297	A Big Data Approach for Demand Response Management in Smart Grid Using the Prophet Model	Kumari S., Kumar N., Rana P.S.	Kumari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Electronics (Switzerland)	2022	20799292
5298	Iterative Approximate Solutions for Variational Problems in Hadamard Manifold	Dilshad M., Filali D., Chandok S., Akram M.	Dilshad, M., Department of Mathematics, Faculty of Science, University of Tabuk, P.O. Box 741, Tabuk, 71491, Saudi Arabia; Filali, D., Department of Mathematical Science, College of Sciences, Princess Nourah Bint Abdulrahman University, Riyadh, 84428, Saudi Arabia; Chandok, S., School of Mathematics, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India; Akram, M., Department of Mathematics, Faculty of Science, Islamic University of Madinah, P.O. Box 1, 70, Madinah, 42351, Saudi Arabia	Axioms	2022	20751680
5299	Masses and decay widths for radially excited $n=3$ S-wave bottom mesons	Garg R., Upadhyay A.	Garg, R., School of Physics and Materials Science, TIET, Punjab, Patiala, 147004, India; Upadhyay, A., School of Physics and Materials Science, TIET, Punjab, Patiala, 147004, India	European Physical Journal Plus	2022	21905444
5300	Channel coupling effects in interactions of 19 F with 64 , 68 Zn at energies around the Coulomb barrier	Noor S., Kalkal S., Guron B.K., Madhavan N., Nath S., Gehlot J., Gonika, Biswas R., Kumar C., Rani A., Parihari A.	Noor, S., Thapar Institute of Engineering & Technology, Patiala, India; Kalkal, S., Thapar Institute of Engineering & Technology, Patiala, India; Guron, B.K., Thapar Institute of Engineering & Technology, Patiala, India; Madhavan, N., Inter-University Accelerator Center, New Delhi, India; Nath, S., Inter-University Accelerator Center, New Delhi, India; Gehlot, J., Inter-University Accelerator Center, New Delhi, India; Gonika, Inter-University Accelerator Center, New Delhi, India; Biswas, R., Inter-University Accelerator Center, New Delhi, India; Kumar, C., Inter-University Accelerator Center, New Delhi, India; Rani, A., Department of Physics and Astrophysics, University of Delhi, New Delhi, India; Parihari, A., Department of Physics and Astrophysics, University of Delhi, New Delhi, India	European Physical Journal A	2022	14346001
5301	Examining the Effect of Tax Reform Determinants, Firms' Characteristics and Demographic Factors on the Financial Performance of Small and Micro Enterprises	Bhalla N., Kaur I., Sharma R.K.	Bhalla, N., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Kaur, I., LM Thapar School of Management, T.I.E.T, Dera Bassi Campus, Punjab, Chandigarh, 140507, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India	Sustainability (Switzerland)	2022	20711050
5302	Performance of Microchannel Heat Sink Made of Silicon Material with the Two-Sided Wedge	Vatsa A., Alam T., Siddiqui M.I.H., Ali M.A., Dobrotă D.	Vatsa, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Alam, T., CSIR—Central Building Research Institute, Roorkee, 247667, India; Siddiqui, M.I.H., Mechanical Engineering Department, King Saud University, Riyadh, 11421, Saudi Arabia; Ali, M.A., Department of Industrial Engineering, College of Engineering, Prince Sattam Bin Abdulaziz University, Al-Kharj, 16273, Saudi Arabia; Dobrotă, D., Faculty of Engineering, Department of Industrial Engineering and Management, Lucian Blaga University of Sibiu, Sibiu, 550024, Romania	Materials	2022	19961944
5303	Dual-Modal Transformer with Enhanced Inter-and Intra-Modality Interactions for Image Captioning	Kumar D., Srivastava V., Popescu D.E., Hemanth J.D.	Kumar, D., Department of Computer Science & Engineering, Bharati Vidyapeeth's College of Engineering, New Delhi, 110063, India; Srivastava, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Popescu, D.E., Faculty of Electrical Engineering and Information Technology, University of Oradea, Oradea, 410087, Romania; Hemanth, J.D., Department of Electronics & Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, 641114, India	Applied Sciences (Switzerland)	2022	20763417
5304	Phenomenon in DC lines analogous to proximity effect	Kumar A., Reddy C.C.	Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Reddy, C.C., Department of Electrical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, 147001, India	European Physical Journal Plus	2022	21905444
5305	Influence of cutting force on temperature, microcracks and chip morphology during rotary ultrasonic bone drilling: An in-vitro study	Agarwal R., Singh R.P., Gupta V., Singh J.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, Patiala, 147004, India; Singh, R.P., Department of Mechanical Engineering, Maharishi Markandeshwar (Deemed to Be University), Mullana, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022	16785878

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5306	A new spherical aggregation function with the concept of spherical fuzzy difference for spherical fuzzy EDAS and its application to industrial robot selection	Garg H., Sharaf I.M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Sharaf, I.M., Department of Basic Sciences, Higher Technological Institute, Tenth of Ramadan City, Egypt	Computational and Applied Mathematics	2022	22383603
5307	QAQVDetect: A Novel Syllogistic Model with Quantized and Anchor Optimized Approach to Assist Visually Impaired for Animal Detection using 3D Vision	Manjari K., Verma M., Singal G., Kumar N.	Manjari, K., Bennett University, Greater Noida, India; Verma, M., Bennett University, Greater Noida, India; Singal, G., Netaji Subhas University of Technology, Delhi, India; Kumar, N., Thapar Institute of Engineering & Technology, Patiala, India	Cognitive Computation	2022	18669956
5308	Erosion model for abrasive water jet machining of composite materials	Dhanawade A., Wazarkar S., Kumar S.	Dhanawade, A., B. S. College of Engineering and Research, Pune, India; Wazarkar, S., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Sardar Vallabhbhai National Institute of Technology, Surat, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022	16785878
5309	Improved method of optimization-based ECG signal watermarking	Sharma N., Singh O.P., Anand A., Singh A.K.	Sharma, N., NIT Patna, Department of CSE, Bihar, Patna, India; Singh, O.P., NIT Patna, Department of CSE, Bihar, Patna, India; Anand, A., Thapar Institute of Engineering and Technology, Department of CSE, India; Singh, A.K., NIT Patna, Department of CSE, Bihar, Patna, India	Journal of Electronic Imaging	2022	10179909
5310	A modified Grey Wolf Optimization with Cuckoo Search Algorithm for load frequency controller design of hybrid power system	Khadanga R.K., Kumar A., Panda S.	Khadanga, R.K., Department of Electrical and Electronics Engineering, Centurion University of Technology and Management, Bhubaneswar, Odisha, 752050, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Panda, S., Department of Electrical Engineering, Veer Surendra Sai University of Technology, Burla, Odisha, 768018, India	Applied Soft Computing	2022	15684946
5311	D-shape optical fiber probe dimension optimization for LSPR based bio-sensor	Kaur Virk J., Das S., Kaler R.S., Singh H., Kundu T.	Kaur Virk, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Das, S., Centre for Research in Nanotechnology and Science, Indian Institute of Technology Bombay, Mumbai, 400076, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kundu, T., Centre for Research in Nanotechnology and Science, Indian Institute of Technology Bombay, Mumbai, 400076, India, Department of Physics, Indian Institute of Technology Bombay, Mumbai, 400076, India	Optical Fiber Technology	2022	10685200
5312	6Blocks: 6G-enabled trust management scheme for decentralized autonomous vehicles	Bhattacharya P., Shukla A., Tanwar S., Kumar N., Sharma R.	Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Shukla, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India, Department of Computer Science, King Abdullah Aziz university, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University, Taiwan; Sharma, R., Centre for Inter-Disciplinary Research and Innovation, University of Petroleum and Energy Studies, Dehradun, 248001, India	Computer Communications	2022	1403664
5313	Test architecture optimization algorithms for coarse-grain partitioned 3D system-on-chip	Vohra H., Singh A.	Vohra, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Computer Science and Technology, Punjabi University, Patiala, India	Computers and Electrical Engineering	2022	457906
5314	Deep discriminative learning model with calibrated attention map for the automated diagnosis of diffuse large B-cell lymphoma	Basu S., Agarwal R., Srivastava V.	Basu, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Biomedical Signal Processing and Control	2022	17468094

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5315	Magnetic metamorphosis of structurally enriched hexagonal Tb3+ modified ZnO nanoparticles	Aggarwal N., Jindal S., Anand G., Sharma A., Tripathi S., Vasishth A., Verma N.K., Kumar S., Panwar R.S., Kumar N.	Aggarwal, N., Department of Physics, Chandigarh University, Gharuan, Mohali, 140413, India; Jindal, S., Department of Physics, Chandigarh University, Gharuan, Mohali, 140413, India; Anand, G., Department of Physics, SOE, University of Petroleum and energy studies, Dehradun, 248007, India; Sharma, A., Department of Physics, Chandigarh University, Gharuan, Mohali, 140413, India; Tripathi, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Vasishth, A., Department of Physics, Chandigarh University, Gharuan, Mohali, 140413, India; Verma, N.K., Energy and Environment Directorate, Pacific Northwest National Laboratory, Richland, WA 99354, United States; Kumar, S., Department of Physics, Chandigarh University, Gharuan, Mohali, 140413, India; Panwar, R.S., Department of Metallurgical and Materials Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Kumar, N., Department of Physics, Chandigarh University, Gharuan, Mohali, 140413, India	Journal of Sol-Gel Science and Technology	2022	9280707
5316	Low-temperature synthesized Mo2C and novel Mo2C–MnO2 heterostructure for highly efficient hydrogen evolution reaction and high-performance capacitors	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Power Sources	2022	3787753
5317	“C” shaped dual polarized dielectric resonator antenna for the microwave imaging of breast tumor using beam-forming algorithms	Kaur G., Kaur A.	Kaur, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2022	10964290
5318	Efficient watermarking technique for protection and authentication of document images	Singh B., Sharma M.K.	Singh, B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5319	A comparative study on the performance of acid catalysts in the synthesis of levulinate ester using biomass-derived levulinic acid: a review	Gautam P., Barman S., Ali A.	Gautam, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, India	Biofuels, Bioproducts and Biorefining	2022	1932104X
5320	Two-dimensional ultrathin metal-based nanosheets for photocatalytic CO2 conversion to solar fuels	Aggarwal M., Shetti N.P., Basu S., Aminabhavi T.M.	Aggarwal, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Karnataka, Hubballi, 580031, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Karnataka, Hubballi, 580031, India	Journal of Environmental Management	2022	3014797
5321	Quantum computing challenges in the software industry. A fuzzy AHP-based approach	Awan U., Hannola L., Tandon A., Goyal R.K., Dhir A.	Awan, U., LUT School of Engineering Science, Lappeenranta-Lahti University of Technology (LUT), Finland; Hannola, L., LUT School of Engineering Science, Lappeenranta-Lahti University of Technology (LUT), Finland; Tandon, A., Turku School of Economics, University of Turku20500, Finland; Goyal, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dhir, A., Optentia Research Focus Area, North-West University, Vanderbijlpark, Norway, Department of Management, School of Business & Law, University of Agder, Norway, Norwegian School of Hotel Management, University of Stavanger, Stavanger, Norway	Information and Software Technology	2022	9505849
5322	Efficient eradication of antibiotic and dye by C-dots@zeolite nanocomposites: Performance evaluation, and degraded products analysis	Rathi A., Basu S., Barman S.	Rathi, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, India	Chemosphere	2022	456535
5323	Multimodal Biometric for Person Identification Using Deep Learning Approach	Sharma A., Jindal N., Thakur A., Rana P.S., Garg B., Mehta R.	Sharma, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jindal, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thakur, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, B., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mehta, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Wireless Personal Communications	2022	9296212
5324	A novel approach for optimal cabling and determination of suitable topology of MTDC connected offshore wind farm cluster	Paul S., Rather Z.H.	Paul, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rather, Z.H., Department of Energy Sc. and Engineering, Indian Institute of Technology Bombay, Mumbai, 400076, India	Electric Power Systems Research	2022	3787796

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5325	Fault-Tolerant Asymmetrical Multilevel Inverter with Preserved Output Power under Post-Fault Operation	Chappa A., Gupta S., Sahu L.K., Gupta K.K., Vahedi H.	Chappa, A., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, 492010, India; Gupta, S., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, 492010, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology Raipur, Raipur, 492010, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Vahedi, H., Dcbel Inc., Montreal, QC H3C 2G9, Canada	IEEE Transactions on Industrial Electronics	2022	2780046
5326	A novel EEG channel selection and classification methodology for multi-class motor imagery-based BCI system design	Jindal K., Upadhyay R., Singh H.S.	Jindal, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Imaging Systems and Technology	2022	8999457
5327	Efficient Prediction of Bridge Conditions Using Modified Convolutional Neural Network	Kumar A., Singla S., Kumar A., Bansal A., Kaur A.	Kumar, A., Department of Civil Engineering, RIMT University, Punjab, India; Singla, S., Department of Civil Engineering, RIMT University, Punjab, India; Kumar, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2022	9296212
5328	Hybrid time-reassigned multisynchrosqueezing transform-Picard-based automated electroencephalography artifact correction methodology for brain-computer interface applications	Dovedi T., Upadhyay R., Kumar V.	Dovedi, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Imaging Systems and Technology	2022	8999457
5329	An enhanced approach for solving multi-objective cogeneration based unit commitment problem	Anand H., Narang N., Dhillon J.S.	Anand, H., EIED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Narang, N., EIED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Dhillon, J.S., EIED, Sant Longowal Institute of Engineering and Technology, Punjab, Sangrur, India	Environmental Progress and Sustainable Energy	2022	19447442
5330	A hybrid ITLHHO algorithm for numerical and engineering optimization problems	Kundu T., Garg H.	Kundu, T., Mathematics Discipline, PDPM Indian Institute of Information Technology, Design and Manufacturing, Madhya Pradesh, Jabalpur, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, India	International Journal of Intelligent Systems	2022	8848173
5331	Interpreting Adversarial Examples and Robustness for Deep Learning-Based Auto-Driving Systems	Wang K., Li F., Chen C.-M., Hassan M.M., Long J., Kumar N.	Wang, K., The College of Information Science and Technology, Jinan University, Guangzhou, 510632, China; Li, F., The School of Computer Science, University of Electronic Science and Technology of China, Chengdu, 611731, China, The College of Computer and Information Sciences, Harbin Institute of Technology, Shenzhen, 518055, China; Chen, C.-M., The College of Computer Science and Engineering, Shandong University of Science and Technology, Qingdao, 266590, China; Hassan, M.M., The Research of Pervasive and Mobile Computing and Information Systems Department, College of Computer and Information Sciences, King Saud University, Riyadh, 11543, Saudi Arabia; Long, J., The College of Information Science and Technology, Jinan University, Guangzhou, 510632, China, Guangdong Key Lab of Traditional Chinese Medicine Information Technology, Guangzhou, 510632, China, Pazhou Lab, Guangzhou, 510335, China; Kumar, N., The Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147004, India	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
5332	Wear and Friction Behavior of Gr/Sn Solid Lubricated Dual Reinforced AMCs	Singhal V., Pandey O.P.	Singhal, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Silicon	2022	1876990X
5333	Cybertwin-Driven Resource Provisioning for IoE Applications at 6G-Enabled Edge Networks	Adhikari M., Munusamy A., Kumar N., Srirama S.	Adhikari, M., Department of Computer Science and Engineering, Indian Institute of Information Technology, Lucknow, 50090, India; Munusamy, A., Anna University, Chennai, 600025, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Srirama, S., School of Computer and Information Sciences, University of Hyderabad, Hyderabad, 500046, India	IEEE Transactions on Industrial Informatics	2022	15513203
5334	Multiple forgery detection and localization technique for digital video using PCT and NBAP	Shelke N.A., Kasana S.S.	Shelke, N.A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kasana, S.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5335	A study to Assess Anxiety, Stress and Depression among MBBS interns working in Covid care Isolation facility of a tertiary level Hospital: An Observational study	Khaira R., Malhotra V., Oberoi S., Nehrudurai S., Chahat M., Kaur H.	Khaira, R., Department Community Medicine, Govt. Medical College, Punjab, Patiala, India; Malhotra, V., Department Community Medicine, Govt. Medical College, Punjab, Patiala, India; Oberoi, S., Department Community Medicine, Govt. Medical College, Punjab, Patiala, India; Nehrudurai, S., Department Community Medicine, Govt. Medical College, Punjab, Patiala, India; Chahat, M., Clinical Psychology, Thapar Institute of Engineering and Technology, TIET Patiala, India; Kaur, H., Nimrata Foundation and Rehabilitation centre, Patiala, India	Indian Journal of Community Health	2022	9717587
5336	Hybrid algorithm for parameter estimation of fuel cell	Singh B., Nijhawan P., Singla M.K., Gupta J., Singh P.	Singh, B., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Energy Research	2022	0363907X
5337	Effect of the substituent on C-H activation catalyzed by a non-heme Fe(IV)O complex: a computational investigation of reactivity and hydrogen tunneling	Katoch A., Mandal D.	Katoch, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Dalton Transactions	2022	14779226
5338	Vision-based kinematic analysis of the Delta robot for object catching	Kansal S., Mukherjee S.	Kansal, S., Thapar Institute of Engineering Technology, Patiala, 147004, India; Mukherjee, S., Indian Institute of Technology Delhi, New Delhi, 110016, India	Robotica	2022	2635747
5339	Dynamic Virtual Network Embedding Algorithm Based on Graph Convolution Neural Network and Reinforcement Learning	Zhang P., Wang C., Kumar N., Zhang W., Liu L.	Zhang, P., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China; Wang, C., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taichung, 41354, Taiwan, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India; Zhang, W., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China; Liu, L., Xidian University, State Key Laboratory of Integrated Services Networks, Xi'an, 710071, China	IEEE Internet of Things Journal	2022	23274662
5340	Inactivation of bacteria present in secondary municipal wastewater effluent using the hybrid effect of Fe-TiO ₂ catalyst	Thakur I., Verma A., Örmeci B.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada	Journal of Cleaner Production	2022	9596526
5341	An improved weighted principal component analysis integrated with TOPSIS approach for global financial development ranking problem of Middle East countries	Heydari A., Niroomand S., Garg H.	Heydari, A., Department of Mathematics, Firouzabad Institute of Higher Education, Fars, Firouzabad, Iran; Niroomand, S., Department of Industrial Engineering, Firouzabad Institute of Higher Education, Fars, Firouzabad, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
5342	A tuned liquid mass damper implemented in a deep liquid storage tank for seismic vibration control of short period structures	Pandey D.K., Mishra S.K., Chakraborty S.	Pandey, D.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, S.K., Department of Civil Engineering, Indian Institute of Technology Kanpur, Kanpur, India; Chakraborty, S., Department of Civil Engineering, Indian Institute of Engineering Science and Technology, Howrah, India	Structural Design of Tall and Special Buildings	2022	15417794
5343	Leveraging energy-efficient load balancing algorithms in fog computing	Singh S.P., Kumar R., Sharma A., Nayyar A.	Singh, S.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, India; Nayyar, A., Graduate School, Faculty of Information Technology, Duy Tan University, Da Nang, Viet Nam	Concurrency and Computation: Practice and Experience	2022	15320626
5344	An optimal derivative-free King's family for multiple zeros and its dynamics	Rani L., Kansal M.	Rani, L., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Engineering Computations (Swansea, Wales)	2022	2644401
5345	Microplastics and nanoplastics in aquatic environment: Challenges and threats to aquatic organisms	Kundu A., Basu S.	Kundu, A., SCBC, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., Thapar Institute of Engineering and Technology, India	Assessing the Effects of Emerging Plastics on the Environment and Public Health	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5346	X-Ray Photoelectron spectroscopy and high resolution TEM studies of glass composites	Kaur G., Mir R.A., Sharma P., Kumar V., Singh K., Pandey O.P.	Kaur, G., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Mir, R.A., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kumar, V., Shri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India; Singh, K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar University, Patiala, 147004, India	Journal of Physics: Conference Series	2022	17426588
5347	Fusion Dynamics of $16\text{O} + 72,76\text{Ge} \rightarrow 88,92\text{Zr}$ Reactions using Skyrme Energy Density Formalism	Nagpal A., Sharma I., Sharma M.K.	Nagpal, A., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, India; Sharma, I., MCM DAV College for Women, Chandigarh, India; Sharma, M.K., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Patiala, India	Journal of Physics: Conference Series	2022	17426588
5348	Mo ₂ C-MoS ₂ heterojunction a suitable and stable electrocatalyst for HER and supercapacitor Applications	Ahmad Mir R., Upadhyay S., Kaur N., Pandey O.P.	Ahmad Mir, R., Center of Excellence for Emerging Materials, CEEMS at Thapar Institute of Engineering and Technology (TIET), Virginia Tech (VT), CEEMS - TIET-VT, Punjab, Patiala, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Upadhyay, S., Center of Excellence for Emerging Materials, CEEMS at Thapar Institute of Engineering and Technology (TIET), Virginia Tech (VT), CEEMS - TIET-VT, Punjab, Patiala, India; Kaur, N., Department of Physics, Brock University, Sir Isaac Brock Way 1812, Canada; Pandey, O.P., Center of Excellence for Emerging Materials, CEEMS at Thapar Institute of Engineering and Technology (TIET), Virginia Tech (VT), CEEMS - TIET-VT, Punjab, Patiala, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Journal of Physics: Conference Series	2022	17426588
5349	Cross-polar reflective linear polarization rotator using anisotropic ultrathin metamaterial	Agarwal M.	Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Optik	2022	304026
5350	Deepfakes Classification of Faces Using Convolutional Neural Networks	Sharma J., Sharma S., Kumar V., Hussein H.S., Alshazly H.	Sharma, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Hussein, H.S., Electrical Engineering Department, College of Engineering, King Khalid University, Abha, 62529, Saudi Arabia, Electrical Engineering Department, Faculty of Engineering, Aswan University, Aswan, 81528, Egypt; Alshazly, H., Faculty of Computers and Information, South Valley University, Qena, 83523, Egypt	Traitement du Signal	2022	7650019
5351	Rapid -YOLO: A novel YOLO based architecture for shadow detection	Kaushal M.	Kaushal, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Derabassi Extended Campus, India	Optik	2022	304026
5352	Lifetime prolongation of a wireless charging sensor network using a mobile robot via linear Diophantine fuzzy graph environment	Prakash K., Parimala M., Garg H., Riaz M.	Prakash, K., Department of Mathematics, Bannari Amman Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Parimala, M., Department of Mathematics, Bannari Amman Institute of Technology, Tamil Nadu, Sathyamangalam, 638401, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Riaz, M., Department of Mathematics, University of Punjab, Lahore, Pakistan	Complex and Intelligent Systems	2022	21994536
5353	An integrated quality-function-deployment and stochastic-dominance-based decision-making approach for prioritizing product concept alternatives	Wang Z.-Q., Chen Z.-S., Garg H., Pu Y., Chin K.-S.	Wang, Z.-Q., School of Management, Xihua University, Sichuan, Chengdu, 610031, China; Chen, Z.-S., Department of Engineering Management, School of Civil Engineering, Wuhan University, Wuhan, 430072, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Pu, Y., School of Transportation and Logistics, Southwest Jiaotong University, Sichuan, Chengdu, 610031, China; Chin, K.-S., Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, City University of Hong Kong Shenzhen Research Institute, Shenzhen, China	Complex and Intelligent Systems	2022	21994536
5354	Trading Stocks Based on Financial News Using Attention Mechanism	Kamal S., Sharma S., Kumar V., Alshazly H., Hussein H.S., Martinetz T.	Kamal, S., Engineering and Technology Department, Liverpool John Moores University, Liverpool, L3 5UX, United Kingdom; Sharma, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, V., Computer Science and Engineering Department, National Institute of Technology, Hamirpur, 177005, India; Alshazly, H., Faculty of Computers and Information, South Valley University, Qena, 83523, Egypt; Hussein, H.S., Electrical Engineering Department, College of Engineering, King Khalid University, Abha, 62529, Saudi Arabia, Electrical Engineering Department, Faculty of Engineering, Aswan University, Aswan, 81528, Egypt; Martinetz, T., Institute for Neuro- and Bioinformatics, University of Lübeck, Lübeck, 23562, Germany	Mathematics	2022	22277390
5355	A V2G Enabled Bidirectional Single/Three-Phase EV Charging Interface Using Modular Multilevel Buck PFC Rectifier	Jain A., Gupta K.K., Jain S.K., Bhatnagar P., Vahedi H.	Jain, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhatnagar, P., IES College of Technology, Bhopal, 462044, India; Vahedi, H., Dcbel Inc, Montreal, QC H3C 2G9, Canada	Electronics (Switzerland)	2022	20799292

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5356	Electrocatalytic oxidation of aromatic amine (4-aminobiphenyl): Kinetics and transformation products with mechanistic approach	Verma D.S., Kushwaha J.P., Singh N., Kaur R.	Verma, D.S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kushwaha, J.P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, N., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Water Environment Research	2022	10614303
5357	Fermatean Fuzzy Schweizer–Sklar Operators and BWM-Entropy-Based Combined Compromise Solution Approach: An Application to Green Supplier Selection	Wei D., Meng D., Rong Y., Liu Y., Garg H., Pamucar D.	Wei, D., School of Computer and Software Engineering, Xihua University, Chengdu, 610039, China, School of Computing and Artificial Intelligence, Southwestern University of Finance and Economics, Chengdu, 611130, China; Meng, D., School of Management Science and Engineering, Southwestern University of Finance and Economics, Chengdu, 611130, China; Rong, Y., School of Management, Shanghai University, Shanghai, 200444, China; Liu, Y., Data Recovery Key Laboratory of Sichuan Province, Neijiang Normal University, Neijiang, 641100, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 147004, India; Pamucar, D., Department of Logistics, University of Defence in Belgrade, Belgrade, 11000, Serbia	Entropy	2022	10994300
5358	Enhanced $m=1$ WKB instabilities in nearly Keplerian stellar discs due to the presence of gas	Prajapati M., Gulati M.	Prajapati, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gulati, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Astrophysics and Space Science	2022	0004640X
5359	Analyzing the effect of parametric variations on the performance of antagonistic SMA spring actuator	Bhatt N., Soni S., Singla A.	Bhatt, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Soni, S., Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, 160030, India; Singla, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today Communications	2022	23524928
5360	Performance Evaluation of Cooperative OMA and NOMA Systems in 6G Deployment Scenarios	Jain P., Gupta A., Kumar N., Joshi G.P., Cho W.	Jain, P., School of Electronics and Electrical Engineering, Lovely Professional University, Punjab, Phagwara, 144001, India; Gupta, A., School of Electronics and Electrical Engineering, Lovely Professional University, Punjab, Phagwara, 144001, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Joshi, G.P., Department of Computer Science and Engineering, Sejong University, Seoul, 05006, South Korea; Cho, W., Department of Software Convergence, Daegu Catholic University, Gyeongsan, 38430, South Korea	Sensors	2022	14248220
5361	A Study of Internet Time Dissemination Services and Their Capabilities: NTP as a Special Case in Time Metrology	Kumar G., Thorat P., Agarwal R., Aswal D.K.	Kumar, G., Thapar Institute of Engineering & Technology, Patiala, India, CSIR-National Physical Laboratory, New Delhi, India; Thorat, P., Thapar Institute of Engineering & Technology, Patiala, India, CSIR-National Physical Laboratory, New Delhi, India; Agarwal, R., Thapar Institute of Engineering & Technology, Patiala, India; Aswal, D.K., Bhabha Atomic Research Centre, Mumbai, India	Mapan - Journal of Metrology Society of India	2022	9703950
5362	Thermodynamic modeling of Si–Zn nano-phase diagram including shape effect	Seema, Sharma A., Zaidi B., Kashyap S., Shekhar C.	Seema, Department of Physics, Amity School of Applied Sciences, Amity University, Haryana, 122413, India; Sharma, A., Department of Mathematics, Amity School of Applied Sciences, Amity University, Haryana, 122413, India; Zaidi, B., Department of Physics, Faculty of Matter Sciences, University of Batna, Batna, Algeria; Kashyap, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Shekhar, C., Department of Physics, Amity School of Applied Sciences, Amity University, Haryana, 122413, India	Journal of Nanoparticle Research	2022	13880764
5363	A taxonomy of energy optimization techniques for smart cities: Architecture and future directions	Tanwar S., Popat A., Bhattacharya P., Gupta R., Kumar N.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Popat, A., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, Department of Computer Science, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science, School of Computing University of Petroleum and Energy Studies, Dehradun, India	Expert Systems	2022	2664720
5364	A detailed survey of denial of service for IoT and multimedia systems: Past, present and futuristic development	Verma A., Saha R., Kumar N., Kumar G., Tai-Hoon-Kim	Verma, A., School of Computer Science and Engineering, Lovely Professional University, Punjab, India; Saha, R., School of Computer Science and Engineering, Lovely Professional University, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Punjab, India, Department of Computer Science, University of Petroleum and Energy Studies, Uttarakh, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia; Kumar, G., School of Computer Science and Engineering, Lovely Professional University, Punjab, India; Tai-Hoon-Kim, Beijing Jiaotong University, Beijing, China	Multimedia Tools and Applications	2022	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5365	Knowledge Commoning: Scaffolding and Technoficing to Overcome Challenges of Knowledge Curation	Qureshi I., Bhatt B., Parthiban R., Sun R., Shukla D.M., Hota P.K., Xu Z.	Qureshi, I., Research School of Management, Australian National University, Canberra, ACT 2600, Australia; Bhatt, B., Research School of Management, Australian National University, Canberra, ACT 2600, Australia; Parthiban, R., S.P. Jain Institute of Management & Research (SPJIMR), India; Sun, R., Lancaster University, United Kingdom; Shukla, D.M., Indian Institute of Management Udaipur, India; Hota, P.K., Research School of Management, Australian National University, Canberra, ACT 2600, Australia, LM Thapar School of Management, India; Xu, Z., Research School of Management, Australian National University, Canberra, ACT 2600, Australia	Information and Organization	2022	14717727
5366	Catalytic thermolysis at atmospheric pressure followed by adsorption in treatment of coking wastewater	Verma V., Joshi N., Kushwaha J., Singh S.B., Ghosh P., Chaudhari P.K.	Verma, V., Department of Chemical Engineering, National Institute of Technology Raipur, Raipur, India; Joshi, N., Department of Chemical Engineering, National Institute of Technology Raipur, Raipur, India; Kushwaha, J., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S.B., Department of Chemistry, National Institute of Technology Raipur, Raipur, India; Ghosh, P., Department of Chemical Engineering, National Institute of Technology Raipur, Raipur, India; Chaudhari, P.K., Department of Chemical Engineering, National Institute of Technology Raipur, Raipur, India	International Journal of Chemical Reactor Engineering	2022	15426580
5367	Comparative structural and optical studies of Al-/Sn-doped ZnO-textured films for optoelectronic application	Bhardwaj S., Gupta A., Kumar G., Sharma P., Kant R., Pandey O.P., Sharma K.	Bhardwaj, S., Department of Physics, Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Gupta, A., Department of Mechanical Engineering, GLA University, Mathura, 281406, India, Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, G., Department of Physics, Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Sharma, P., Applied Science Department, National Institute of Technical Teachers Training and Research, Sector 26, Chandigarh, 160019, India; Kant, R., Department of Metallurgical and Materials Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, K., Department of Mechanical Engineering, GLA University, Mathura, 281406, India	Journal of Materials Science: Materials in Electronics	2022	9574522
5368	Impedance and AC conductivity analysis of La-substituted 0.67BiFeO ₃ -0.33BaTiO ₃ solid solution	Bhadoria P.P.S., Kolte J.	Bhadoria, P.P.S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Applied Physics A: Materials Science and Processing	2022	9478396
5369	Performance characterization of modified random direction mobility model in UAVs cellular network	Sohal R.S., Grewal V., Kaur J., Kaur M.	Sohal, R.S., Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, India; Grewal, V., Department of Electronics and Communication Engineering, Guru Nanak Dev University Regional Campus, Punjab, Jalandhar, India; Kaur, J., Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, India; Kaur, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
5370	Recent advances on visible light active non-typical stoichiometric oxygen-rich Bi ₁₂ O ₁₇ Cl ₂ photocatalyst for environment pollution remediation	Passi M., Pal B.	Passi, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Environmental Chemical Engineering	2022	22133437
5371	Bioenergy crop production potential and carbon mitigation from marginal and degraded lands of India	Edrisi S.A., Dubey P.K., Chaturvedi R.K., Abhilash P.C.	Edrisi, S.A., School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Dubey, P.K., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India; Chaturvedi, R.K., Birla Institute of Technology & Science, Pilani, K. K. Birla Goa Campus, Zuari Nagar, Goa403726, India; Abhilash, P.C., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India	Renewable Energy	2022	9601481
5372	A review on catalytic role of heterogeneous acidic catalysts during glycerol acetylation to yield acetins	Abida K., Ali A.	Abida, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Indian Chemical Society	2022	194522
5373	Time series sentiment analysis (SA) of relief operations using social media (SM) platform for efficient resource management	Bhullar G., Khullar A., Kumar A., Sharma A., Pannu H.S., Malhi A.	Bhullar, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khullar, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malhi, A., Bournemouth University, UK, United Kingdom	International Journal of Disaster Risk Reduction	2022	22124209
5374	Design of an isolation improved MIMO antenna using metasurface based absorber for wireless applications	Puri V., Singh H.S.	Puri, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India	Optik	2022	304026

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5375	Decision-making strategy based on Archimedean Bonferroni mean operators under complex Pythagorean fuzzy information	Garg H., Deng Y., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Deng, Y., Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu, 610054, China; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan	Computational and Applied Mathematics	2022	22383603
5376	Convective Heat Transfer from a Porous Semi-Circular Obstacle Attached to a Channel Wall	Kaur R., Sharma S., Chandra A.	Kaur, R., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, 147004, India; Sharma, S., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, 147004, India; Chandra, A., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala, 147004, India	Chemical Engineering and Technology	2022	9307516
5377	Designing and Analysis of Ultrathin Metamaterial Absorber for W Band Biomedical Sensing Application	Singh H., Gupta A., Kaler R.S., Singh S., Gill A.S.	Singh, H., Chandigarh University Mohali, Department of Electronics and Communication Engineering, Punjab140413, India, University Centre for Research and Development, Chandigarh University, Punjab, Mohali, 140413, India; Gupta, A., I. K. Gujral Punjab Technical University, Department of Electronics and Communication Engineering, Punjab, Kapurthala, 144603, India; Kaler, R.S., Thapar University, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Singh, S., Sant Longowal Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Sangrur, 148106, India; Gill, A.S., I. K. Gujral Punjab Technical University, Department of Electronics and Communication Engineering, Punjab, Kapurthala, 144603, India	IEEE Sensors Journal	2022	1530437X
5378	Cq-ROFRS: covering q-rung orthopair fuzzy rough sets and its application to multi-attribute decision-making process	Garg H., Atef M.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Atef, M., Department of Mathematics and Computer Science, Faculty of Science, Menoufia University, Menoufia, 32511, Egypt	Complex and Intelligent Systems	2022	21994536
5379	Comparison and performance analysis of pheromone value and cannibalism based black widow optimisation approaches for modelling and parameter estimation of solar photovoltaic mathematical models	Chauhan A., Prakash S.	Chauhan, A., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India; Prakash, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147004, India	Optik	2022	304026
5380	Heronian Mean Operators Considering Shapley Fuzzy Measure under Interval Neutrosophic Vague Environment for an Investment Decision	Hashim H., Garg H., Al-Quran A., Awang N.A., Abdullah L.	Hashim, H., Faculty of Computer and Mathematical Sciences, Universiti Teknologi Mara (UiTM) Kelantan, Kelantan, Machang, 18500, Malaysia, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Terengganu, Kuala Nerus, 21030, Malaysia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Al-Quran, A., Preparatory Year Deanship, King Faisal University, Al-Ahsa, Hofuf, 31982, Saudi Arabia; Awang, N.A., Faculty of Computer and Mathematical Sciences, Universiti Teknologi Mara (UiTM), Selangor, Shah Alam, 40450, Malaysia; Abdullah, L., Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Terengganu, Kuala Nerus, 21030, Malaysia	International Journal of Fuzzy Systems	2022	15622479
5381	Polarization independent frequency selective surface for marine and air traffic radar applications	Kaur K., Kaur A.	Kaur, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
5382	ETL-YOLO v4: A face mask detection algorithm in era of COVID-19 pandemic	Kumar A., Kalia A., Kalia A.	Kumar, A., Department of Computer Science, Himachal Pradesh University, Shimla, India; Kalia, A., Department of Computer Science, Himachal Pradesh University, Shimla, India; Kalia, A., CSED, Thapar Institute of Engineering & Technology, Patiala, India	Optik	2022	304026
5383	Effect of nanofillers and nanotoxicity on the performance of composites: Influencing factors, future scope, challenges and applications	Mehta J., Das P.P., Mehta S., Chaudhary V., Gupta S., Gupta N., Rinawa M.L., Gupta P.	Mehta, J., Department of Mechanical Engineering, Manav Rachna International Institute of Research and Studies, Haryana, Faridabad, India; Das, P.P., Department of Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Kandi, Telangana, Sangareddy, India; Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chaudhary, V., Department of Mechanical Engineering, A.S.E.T., Amity University Uttar Pradesh, Noida, India; Gupta, S., Department of Mechanical Engineering, A.S.E.T., Amity University Uttar Pradesh, Noida, India; Gupta, N., Faculty of Mechanical Engineering, Shri Ramswaroop Memorial University, Uttar Pradesh, Barabanki, India; Rinawa, M.L., Department of Mechanical Engineering, Government Engineering College Jhalawar, Rajasthan, India; Gupta, P., Department of Mechanical Engineering, A.S.E.T., Amity University Uttar Pradesh, Noida, India	Polymer Composites	2022	2728397

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5384	Development of deeply focused microwave lens applicator for efficient hyperthermia treatment	Sharma N., Singh H.S., Khanna R., Kaur A., Agarwal M.	Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), TIET, Punjab, Patiala, 147004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), TIET, Punjab, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), TIET, Punjab, Patiala, 147004, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), TIET, Punjab, Patiala, 147004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials(CEEMS), TIET, Punjab, Patiala, 147004, India	Optik	2022	304026
5385	Consensus reaching for prospect cross-efficiency in data envelopment analysis with minimum adjustments	Wu Q., Liu X., Qin J., Zhou L., Garg H., Mardani A.	Wu, Q., School of Economics and Management, Sosotheast University, Jiangsu, Nanjing, 211189, China; Liu, X., School of Economics and Management, Sosotheast University, Jiangsu, Nanjing, 211189, China; Qin, J., School of Management, Wuhan University of Technology, Hubei, Wuhan, 430070, China, Research Center for Data Science and Intelligent Decision Making, Wuhan University of Technology, 430070 Hubei, China; Zhou, L., School of Mathematical Sciences, Anhui University, Hefei, 230601, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Mardani, A., Muma College of Business, University of South Florida, Tampa, FL 33813, United States	Computers and Industrial Engineering	2022	3608352
5386	Novel three stage range sensitive filter for denoising high density salt & pepper noise	Bindal N., Garg B.	Bindal, N., ECED, Thapar Institute of Engineering, Technology Patiala-147001, Punjab, India; Garg, B., ECED, Thapar Institute of Engineering, Technology Patiala-147001, Punjab, India	Multimedia Tools and Applications	2022	13807501
5387	Broadband circularly polarized dielectric resonator antenna for UWB applications	Yadav S.K., Kaur A., Khanna R.	Yadav, S.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
5388	Energy efficient and effective node deployment for wireless sensor network	Kumar Gupta S., Kumar S., Tyagi S.	Kumar Gupta, S., Department of Electronics and Communication Engineering, SRMS College of Engineering and Technology, AKTU, Uttar Pradesh, Lucknow, India, Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Lucknow Campus, Uttar Pradesh, Lucknow, India; Kumar, S., Department of Electronics and Communication Engineering, Amity School of Engineering and Technology, Lucknow Campus, Uttar Pradesh, Lucknow, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India	International Journal of Communication Systems	2022	10745351
5389	A survey on event-driven and query-driven hierarchical routing protocols for mobile sink-based wireless sensor networks	Jain S., Verma R.K., Pattanaik K.K., Shukla A.	Jain, S., Thapar Institute of Engineering & Technology, Patiala, India; Verma, R.K., Department of Computer Science, Indian Institute of Information Technology, Lucknow, India; Pattanaik, K.K., Wireless Sensor Networks Laboratory, ABV-Indian Institute of Information Technology and Management, Gwalior, India; Shukla, A., ABV-Indian Institute of Information Technology and Management, Gwalior, India	Journal of Supercomputing	2022	9208542
5390	UBIS: Unigram Bigram Importance Score for Feature Selection from Short Text	Garg M.	Garg, M., Thapar Institute of Engineering & Technology, Patiala, Punjab147004, India	Expert Systems with Applications	2022	9574174
5391	Modelling uncertainties with TOPSIS and GRA based on q-rung orthopair m-polar fuzzy soft information in COVID-19	Riaz M., Garg H., Hamid M.T., Afzal D.	Riaz, M., Department of Mathematics, University of the Punjab, Lahore, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, India; Hamid, M.T., Department of Mathematics & Statistics, The University of Lahore, Lahore, Pakistan; Afzal, D., Department of Mathematics & Statistics, The University of Lahore, Lahore, Pakistan	Expert Systems	2022	2664720
5392	Investigating the role of zooplankton in sustaining frog population	Jain S., Roy P.	Jain, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Roy, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Mathematical Methods in the Applied Sciences	2022	1704214
5393	An improved hybrid classification of brain tumor MRI images based on conglomeration feature extraction techniques	Bansal T., Jindal N.	Bansal, T., ECED, TIET, Punjab, Patiala, India; Jindal, N., ECED, TIET, Punjab, Patiala, India	Neural Computing and Applications	2022	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5394	Blockchain for IoT in 6G environment: review solutions and challenges	Shah K., Chadotra S., Tanwar S., Gupta R., Kumar N.	Shah, K., Department of Computer Science & Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Chadotra, S., Department of Computer Science & Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Tanwar, S., Department of Computer Science & Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Gupta, R., Department of Computer Science & Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taizhong, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India	Cluster Computing	2022	13867857
5395	A New Low Voltage Current Mode Analog Multiplier/Divider Circuit Based on FGMOS Translinear Loop	Dhawan R., Aggarwal B., Narang N., Rai S.K.	Dhawan, R., NSUT, Delhi, Dwarka, 110078, India; Aggarwal, B., NSUT, Delhi, Dwarka, 110078, India; Narang, N., IIT Delhi, Delhi, Hauz Khas, 110016, India; Rai, S.K., Thapar Institute of Engineering and Technology, Patiala, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2022	22286179
5396	Design and Analysis of Compact Quad-Element MIMO Antenna with Asymmetrical Ground Structures for Ultra-Wideband Communication	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Wireless Personal Communications	2022	9296212
5397	Face-Based Age and Gender Estimation Using Improved Convolutional Neural Network Approach	Sharma N., Sharma R., Jindal N.	Sharma, N., Punjabi University, Punjab, Patiala, India; Sharma, R., Punjabi University, Punjab, Patiala, India; Jindal, N., Assistant Professor (Electronics and Communication), Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Wireless Personal Communications	2022	9296212
5398	Design of Mittag-Leffler Kernel-Based Fractional-Order Digital Filter Using Fractional Delay Interpolation	Gupta A., Kumar S.	Gupta, A., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Biomedical Signal Analysis and Interpretation Laboratory (BioSAIL), Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Circuits, Systems, and Signal Processing	2022	0278081X
5399	Design and development of a three-phase Net Meter for V2G enabled charging stations of electric vehicles	Kaur A.P., Singh M.	Kaur, A.P., Electrical and Instrumentation Engineering Department, TIET, Patiala, Punjab 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, TIET, Patiala, Punjab 147004, India	Sustainable Energy, Grids and Networks	2022	23524677
5400	Study of wear losses and frictional heat dissipation during dry sliding wear of ilmenite reinforced Al-alloy composite	Singhal V., Prakash Pandey O.	Singhal, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Prakash Pandey, O., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062
5401	Establishing Early Foundations to Promote Emotional Competence in Preschool Children	Kaur J., Sharma A.	Kaur, J., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, A., Thapar Institute of Engineering & Technology, Patiala, India	Journal of Applied Social Science	2022	19367244
5402	Knowledge acquisition for 3D coordinates of target in wireless sensor networks for smart city application	Himanshu, Khanna R., Kumar A.	Himanshu, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., Department of Electronics and Communication Engineering, Chandigarh College of Engineering and Technology, Chandigarh, India	Expert Systems	2022	2664720
5403	A survey on artificial intelligence techniques for chronic diseases: open issues and challenges	Patel K., Mistry C., Mehta D., Thakker U., Tanwar S., Gupta R., Kumar N.	Patel, K., Department of Computer Science and Engineering, Nirma University, Gujarat, Ahmedabad, India; Mistry, C., Department of Computer Science and Engineering, Nirma University, Gujarat, Ahmedabad, India; Mehta, D., Department of Computer Science and Engineering, Nirma University, Gujarat, Ahmedabad, India; Thakker, U., Department of Computer Science and Engineering, Nirma University, Gujarat, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Nirma University, Gujarat, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India	Artificial Intelligence Review	2022	2692821
5404	Model order diminution of MIMO systems using the delta transform method with new firefly-based hybrid algorithms	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, G., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training & Research, West Bengal, Kolkata, 700106, India	Soft Computing	2022	14327643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5405	Parameter estimation of different solar cells using a novel swarm intelligence technique	Gupta J., Nijhawan P., Ganguli S.	Gupta, J., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Soft Computing	2022	14327643
5406	Reinforced modified equilibrium optimization technique-based MS-PID frequency regulator for a hybrid power system with renewable energy sources	Kumar A., Khadanga R.K., Panda S.	Kumar, A., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Khadanga, R.K., Department of Electrical and Electronics Engineering, Centurion University of Technology and Management, Odisha, Bhubaneswar, 761211, India; Panda, S., Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, Burla, 768018, India	Soft Computing	2022	14327643
5407	Improvement in error performance of optical communication system using quantum detection theory	Kaur N., Kumar P.	Kaur, N., Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147001, India; Kumar, P., Electronics and Communication Engineering Department, TIET, Punjab, Patiala, 147001, India	Journal of Optics (India)	2022	9728821
5408	Investigation of magnetorheological fluid-based finishing process for improving the functional performance of hydraulic cylinder	Paswan S.K., Aggarwal A., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India; Aggarwal, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022	9544089
5409	Design and implementation of transaction privacy by virtue of ownership and traceability in blockchain based supply chain	Mohit M., Kaur S., Singh M.	Mohit, M., CSED, Thapar Institute of Engineering & Technology, P.O. Box 32, Punjab, Bhadson Road, Patiala, 147004, India; Kaur, S., CSED, Thapar Institute of Engineering & Technology, P.O. Box 32, Punjab, Bhadson Road, Patiala, 147004, India; Singh, M., CSED, Thapar Institute of Engineering & Technology, P.O. Box 32, Punjab, Bhadson Road, Patiala, 147004, India	Cluster Computing	2022	13867857
5410	A Systematic Literature Review of Blockchain Technology for Smart Villages	Kaur P., Parashar A.	Kaur, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Parashar, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Archives of Computational Methods in Engineering	2022	11343060
5411	Comparative prediction of surface roughness for MAFM finished aluminium/silicon carbide/aluminium trioxide/rare earth oxides (Al/SiC/Al ₂ O ₃ /REOs) composites using a Levenberg–Marquardt Algorithm and a Box–Behnken Design	Sharma M., Janardhan G., Sharma V.K., Kumar V., Joshi R.S.	Sharma, M., Daikin Air-Conditioning India Private Limited, India; Janardhan, G., National Institute of Technology Rourkela, India; Sharma, V.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, Meerut, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022	9544089
5412	Existence of solution for orthogonal F-contraction mappings via Picard–Jungck sequences	Chandok S., Radenović S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Radenović, S., Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, Beograd 35, 11120, Serbia	Journal of Analysis	2022	9713611
5413	A Survey on Deep Learning Approaches to Medical Images and a Systematic Look up into Real-Time Object Detection	Kaur A., Singh Y., Neeru N., Kaur L., Singh A.	Kaur, A., Computer Science and Engineering Department, Punjabi University, Punjab, Patiala, 147001, India, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, Y., Computer Science and Engineering Department, Punjabi University, Punjab, Patiala, 147001, India; Neeru, N., Computer Science and Engineering Department, Punjabi University, Punjab, Patiala, 147001, India; Kaur, L., Computer Science and Engineering Department, Punjabi University, Punjab, Patiala, 147001, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Archives of Computational Methods in Engineering	2022	11343060
5414	PV integrated grid synchronization technique using modified SOGI-FLL and zero-crossing detector	Saxena H., Singh A., Rai J.N., Badoni M.	Saxena, H., Delhi Technological University, Delhi, India; Singh, A., Delhi Technological University, Delhi, India; Rai, J.N., Delhi Technological University, Delhi, India; Badoni, M., Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2022	9487921
5415	Singularity analysis of a 7-DOF spatial hybrid manipulator for medical surgery	Gupta S., Singla E., Soni S., Singla A.	Gupta, S., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, India; Singla, E., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, India; Soni, S., Biomedical Instrumentation Division, CSIR-Central Scientific Instruments Organization, Chandigarh, India; Singla, A., Department of Mechanical Engineering, Thapar University, Punjab, Patiala, India	International Journal of Nonlinear Sciences and Numerical Simulation	2022	15651339

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5416	A New Analytical MPPT-Based Induction Motor Drive for Solar PV Water Pumping System with Battery Backup	Shukla S., Singh B., Shaw P., Al-Durra A., El-Fouly T.H.M., El-Saadany E.F.	Shukla, S., Thapar Institute of Engineering and Technology (TIET), Patiala, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India; Shaw, P., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India; Al-Durra, A., Department of Electrical and Computer Engineering, Khalifa University of Science & Technology, Abu Dhabi, 2533, United Arab Emirates; El-Fouly, T.H.M., Khalifa University of Science and Technology, Abu Dhabi, 2533, United Arab Emirates; El-Saadany, E.F., Khalifa University of Science and Technology, Abu Dhabi, 2533, United Arab Emirates	IEEE Transactions on Industrial Electronics	2022	2780046
5417	Markov Chain Modeling of the End-to-End Molecular Communication System Using Ligand Receiver	Ahuja M., Ankit, Bhatnagar M.R.	Ahuja, M., IIT Delhi, Bharti School of Telecommunication Technology and Management, New Delhi, 110016, India; Ankit, Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Patiala, 147004, India; Bhatnagar, M.R., IIT Delhi, Department of Electrical Engineering, New Delhi, 110016, India	IEEE Transactions on Molecular, Biological, and Multi-Scale Communications	2022	23327804
5418	Correspondence between a new class of generalized cone convexity and higher order duality	Kaur A., Sharma M.K.	Kaur, A., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, M.K., Thapar Institute of Engineering and Technology, Patiala, India	OPSEARCH	2022	303887
5419	Development of CA-TiO ₂ -incorporated thin-film nanocomposite forward osmosis membrane for enhanced water flux and salt rejection	Jain H., Verma A.K., Dhupper R., Wadhwa S., Garg M.C.	Jain, H., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125, Uttar Pradesh, Noida, 201313, India; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147005, India; Dhupper, R., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125, Uttar Pradesh, Noida, 201313, India; Wadhwa, S., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125, Uttar Pradesh, Noida, 201313, India, Department of Chemistry, School of Engineering, University of Petroleum & Energy Studies, Bidholi Campus, Uttarakhand, Dehradun, 248007, India; Garg, M.C., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125, Uttar Pradesh, Noida, 201313, India	International Journal of Environmental Science and Technology	2022	17351472
5420	Mathematical Approach on Chipping Volume Estimation Generated During Rotary Ultrasonic Drilling for Float Glass	Sharma A., Jain V., Gupta D.	Sharma, A., Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2022	3698203
5421	Three-dimensional printing of dual thermoplastic materials with different layer combinations: Tensile, flexural, and fractured surface investigations	Kumar S., Singh R., Singh T.P., Batish A., Kumar A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
5422	Silt erosion performance of high velocity oxy fuel- (HVOF) sprayed Al ₂ O ₃ -Cr ₂ O ₃ composite coatings on turbine steel	Kumar R., Kumar S., Mudgal D.	Kumar, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology Jamshedpur, Jamshedpur, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Industrial Lubrication and Tribology	2022	368792
5423	A novel target and biomarker benzothiazolyl-naphthalimide probes for precise and selective detection of serum albumin and anticancer activity	Rani S., Gupta S., Luxami V., Paul K.	Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	New Journal of Chemistry	2022	11440546
5424	Influence of thermal treatment atmosphere on N-doped carbon spheres for wastewater treatment and supercapacitor applications	Choudhary R., Pandey O.P., Brar L.K.	Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Chemistry and Physics	2022	2540584
5425	A GA-Based Sustainable and Secure Green Data Communication Method Using IoT-Enabled WSN in Healthcare	Singh S., Nandan A.S., Malik A., Kumar R., Awasthi L.K., Kumar N.	Singh, S., Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Department of CSE, Jalandhar, 144011, India; Nandan, A.S., Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Department of CSE, Jalandhar, 144011, India; Malik, A., Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Department of CSE, Jalandhar, 144011, India; Kumar, R., Delhi Technological University, Department of CSE, New Delhi, 110042, India; Awasthi, L.K., Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Department of CSE, Jalandhar, 144011, India; Kumar, N., Department Computer Science and Engineering, Thapar University, Patiala, 147004, India	IEEE Internet of Things Journal	2022	23274662
5426	Experimental investigation of initially damaged beam column joint retrofitted with reinforced UHP-HFRC overlay	Sharma R., Bansal P.P.	Sharma, R., Division of Architecture and Urban Design, Urban Sciences Institute, Incheon National University, 119 Academy-ro, Yeonsu-gu, Incheon, 22012, South Korea; Bansal, P.P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Building Engineering	2022	23527102

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5427	Recycling of Ti6Al4V machining swarf into additive manufacturing feedstock powder to realise sustainable recycling goals	Dhiman S., Joshi R.S., Singh S., Gill S.S., Singh H., Kumar R., Kumar V.	Dhiman, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Micro Mechanics Lab, Indian Institute of Technology Hyderabad, Sangareddy, Kandi, India, School of Engineering, Deakin University, Geelong, VIC 3216, Australia; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gill, S.S., Department of Mechanical Engineering, Sardar Beant Singh State University, Gurdaspur, India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Roopnagar, India; Kumar, R., CSIR-National Metallurgical Laboratory, Jamshedpur, India, Department of Fuel Minerals and Metallurgical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Cleaner Production	2022	9596526
5428	Aerodynamic modeling of vehicle for better fuel efficiency	Kansal M., Singh M., Singh M., Sharma B.	Kansal, M., ThaparInstitute of Engineering and Technology, Punjab, Patiala, India; Singh, M., ThaparInstitute of Engineering and Technology, Punjab, Patiala, India; Sharma, B., ThaparInstitute of Engineering and Technology, Punjab, Patiala, India	AIP Conference Proceedings	2022	0094243X
5429	Host-Assisted Delivery of a Model Drug to Genomic DNA: Key Information from Ultrafast Spectroscopy and in silico Study	Ghosh R., Singh S., Mukherjee D., Mondal S., Das M., Pal U., Adhikari A., Bhushan A., Bose S., Bhattacharyya S.S., Pal D., Saha-Dasgupta T., Bhattacharyya M., Bhattacharyya D., Mallick A.K., Das R., Pal S.K.	Ghosh, R., Department of Chemical Biological and Macromolecular Sciences, S.N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt lake,Kolkata, 700106, India, Department of Biochemistry, University of Calcutta, 35 Ballygunge Circular Rd, Ballygunge,Kolkata, 700019, India; Singh, S., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake,Kolkata, 700106, India; Mukherjee, D., Department of Chemical Biological and Macromolecular Sciences, S.N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt lake,Kolkata, 700106, India; Mondal, S., Department of Chemical Biological and Macromolecular Sciences, S.N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt lake,Kolkata, 700106, India; Das, M., Department of Zoology, Uluberia College, University of Calcutta, Howrah, 711315, India, Department of Zoology, Vidyasagar University, Midnapore, 721102, India; Pal, U., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake,Kolkata, 700106, India; Adhikari, A., Department of Chemical Biological and Macromolecular Sciences, S.N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt lake,Kolkata, 700106, India; Bhushan, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road,Punjab, Patiala, 147004, India; Bose, S., Department of Oral and Maxillofacial Pathology, KSDJ Dental College and Hospital, Kolkata, 700002, India; Bhattacharyya, S.S., Department of Zoology, Uluberia College, University of Calcutta, Howrah, 711315, India; Pal, D., Department of Zoology, Uluberia College, University of Calcutta, Howrah, 711315, India; Saha-Dasgupta, T., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake,Kolkata, 700106, India, Department of Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Kolkata, 700106, India; Bhattacharyya, M., Department of Biochemistry, University of Calcutta, 35 Ballygunge Circular Rd, Ballygunge,Kolkata, 700019, India; Bhattacharyya, D., Department of Gynecology & Obstetrics, Nil Ratan Sircar Medical College & Hospital, 138, AJC Bose Road, Sealdah, Raja Bazar, Kolkata, 700014, India; Mallick, A.K., Department of Pediatric Medicine, Nil Ratan Sircar Medical College and Hospital, Kolkata, 700014, India; Das, R., Department of Chemistry, West Bengal State University, Barasat,Kolkata, 700126, India; Pal, S.K., Department of Chemical Biological and Macromolecular Sciences, S.N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt lake,Kolkata, 700106, India	ChemBioChem	2022	14394227
5430	An Adaptive Element-Free Galerkin Approach for Solving Singularly Perturbed Boundary Layer Problems	Kaur J., Sangwan V.	Kaur, J., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sangwan, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Applied and Industrial Mathematics	2022	19904789
5431	Analysis on Prediction of COVID-19 with Machine Learning Algorithms	Sathyaraj R., Kanthavel R., Cavaliere L.P.L., Vyas S., Maheswari S., Gupta R.K., Raja M.R., Dhaya R., Gupta M.K., Sengan S.	Sathyaraj, R., School of Computer Science and Engineering, Vellore Institute of Technology, Tamil Nadu, Vellore, India; Kanthavel, R., Department of Computer Engineering, King Khalid University, Abha, Saudi Arabia; Cavaliere, L.P.L., Department of Economics, University of Foggia, Via Romolo Caggese, Foggia, Italy; Vyas, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Maheswari, S., School of Computer Science and Engineering, VIT University, Tamil Nadu, Chennai, 600127, India; Gupta, R.K., Department of Humanities and Management Science, Madan Mohan Malaviya University of Technology, Gorakhpur, India; Raja, M.R., Department of Electrical Engineering, King Khalid University, Sarat Abidha Campus, Saudi Arabia; Dhaya, R., Department of Computer Science, King Khalid University, Abha, Saudi Arabia; Gupta, M.K., Department of Computer Science and Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Rajasthan, Jaipur, 302017, India; Sengan, S., Department of Computer Science and Engineering, PSN College of Engineering and Technology, Tamil Nadu, Tirunelveli, 627152, India	International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems	2022	2184885

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5432	Micro- and nanoplastics removal mechanisms in wastewater treatment plants: A review	Rout P.R., Mohanty A., Aastha, Sharma A., Miglani M., Liu D., Varjani S.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Mohanty, A., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), G.T. Road Bypass, Jalandhar, 144011, India; Aastha, Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Sharma, A., Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Miglani, M., Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Liu, D., College of Biosystems Engineering and Food Science, Zhejiang University, China; Varjani, S., Gujarat Pollution Control Board, Gujarat, Gandhinagar, 382 010, India	Journal of Hazardous Materials Advances	2022	27724166
5433	Estimation of Linear Regression with the Dimensional Analysis Method	Pérez-Domínguez L., Garg H., Luviano-Cruz D., Alcaraz J.L.G.	Pérez-Domínguez, L., Departamento de Ingeniería Industrial y Manufactura, Universidad Autónoma de Ciudad Juárez, Ciudad Juárez, 32315, Mexico; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Luviano-Cruz, D., Departamento de Ingeniería Industrial y Manufactura, Universidad Autónoma de Ciudad Juárez, Ciudad Juárez, 32315, Mexico; Alcaraz, J.L.G., Departamento de Ingeniería Industrial y Manufactura, Universidad Autónoma de Ciudad Juárez, Ciudad Juárez, 32315, Mexico	Mathematics	2022	22277390
5434	Knee Muscle Force Estimating Model Using Machine Learning Approach	Sohane A., Agarwal R.	Sohane, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India	Computer Journal	2022	104620
5435	Systematic study of fusion barrier characteristics within the relativistic mean-field formalism	Rana S., Bhuyan M., Kumar R.	Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physical Review C	2022	24699985
5436	Crop-Suitability Analysis Using the Analytic Hierarchy Process and Geospatial Techniques for Cereal Production in North India	Shaloo, Singh R.P., Bisht H., Jain R., Suna T., Bana R.S., Godara S., Shivay Y.S., Singh N., Bedi J., Begam S., Tamta M., Gautam S.	Shaloo, ICAR-Indian Agricultural Research Institute, New Delhi, 110012, India; Singh, R.P., Department of Computer Science and Engineering, Guru Jambheshwar University of Science & Technology, Hisar, 125001, India; Bisht, H., ICAR-Indian Agricultural Research Institute, New Delhi, 110012, India; Jain, R., ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, 110012, India; Suna, T., ICAR-Indian Agricultural Research Institute, New Delhi, 110012, India; Bana, R.S., ICAR-Indian Agricultural Research Institute, New Delhi, 110012, India; Godara, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, 110012, India; Shivay, Y.S., ICAR-Indian Agricultural Research Institute, New Delhi, 110012, India; Singh, N., ICAR-Indian Agricultural Research Institute, New Delhi, 110012, India; Bedi, J., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Begam, S., ICAR-National Institute of Plant Biotechnology, New Delhi, 110012, India; Tamta, M., ICAR-Research Complex for Eastern Region, Patna, 800014, India; Gautam, S., School of Forestry and Environment Science, Sam Higginbottom University of Agriculture, Technology & Sciences, Allahabad, 211003, India	Sustainability (Switzerland)	2022	20711050
5437	Cancer-Associated Microbiota: From Mechanisms of Disease Causation to Microbiota-Centric Anti-Cancer Approaches	Dey P., Chaudhuri S.R.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chaudhuri, S.R., Council of Scientific and Industrial Research (CSIR), Institute of Microbial Technology, Chandigarh, 160036, India	Biology	2022	20797737
5438	VaCoChain: Blockchain-Based 5G-Assisted UAV Vaccine Distribution Scheme for Future Pandemics	Verma A., Bhattacharya P., Zuhair M., Tanwar S., Kumar N.	Verma, A., Institute Of Technology, Nirma University, Department Of Computer Science And Engineering, Ahmedabad, 382481, India; Bhattacharya, P., Institute Of Technology, Nirma University, Department Of Computer Science And Engineering, Ahmedabad, 382481, India; Zuhair, M., Institute Of Technology, Nirma University, Department Of Computer Science And Engineering, Ahmedabad, 382481, India; Tanwar, S., Institute Of Technology, Nirma University, Department Of Computer Science And Engineering, Ahmedabad, 382481, India; Kumar, N., Deemed To Be University, Thapar Institute Of Engineering And Technology, Patiala, India, University Of Petroleum And Energy Studies, School Of Computer Science, Dehradun, India	IEEE Journal of Biomedical and Health Informatics	2022	21682194
5439	Adoption of Cloud Services in Central Banks: Hindering Factors and the Recommendations for Way Forward	Edmond D., Prakash V., Garg L., Bawa S.	Edmond, D., University of Liverpool, Liverpool, United Kingdom; Prakash, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, L., University of Liverpool and University of Malta, Msida, Liverpool, United Kingdom; Bawa, S., University of Liverpool, Liverpool, United Kingdom	Journal of Central Banking Theory and Practice	2022	18009581
5440	Generation, dynamics and bifurcation of high power soliton beams in cubic-quintic nonlocal nonlinear media	Mishra M., Kajala S.K., Sharma M., Konar S., Jana S.	Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Kajala, S.K., Department of Physics, Mody University of Science and Technology, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Konar, S., Department of Physics, Birla Institute of Technology, Mesra, Ranchi, 835215, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Optics (United Kingdom)	2022	20408978
5441	An Active and Low-cost Microwave Imaging System for Detection of Breast Cancer Using Back Scattered Signal	Gupta A., Chawla P., Kansal A., Singh K.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chawla, P., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Current Medical Imaging	2022	15734056

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5442	Development, In-Vitro Characterization and Preclinical Evaluation of Esomeprazole-Encapsulated Proniosomal Formulation for the Enhancement of Anti-Ulcer Activity	Mohanty D., Zafar A., Jafar M., Upadhyay A.K., Haque M.A., Gupta J.K., Bakshi V., Ghoneim M.M., Alshehri S., Jahangir M.A., Ansari M.J.	Mohanty, D., Department of Pharmaceutics, Anurag University, Hyderabad, 500088, India; Zafar, A., Department of Pharmaceutics, College of Pharmacy, Jouf University, Sakaka, 72341, Saudi Arabia; Jafar, M., Department of Pharmaceutics, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, Dammam, 34212, Saudi Arabia; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Haque, M.A., Department of Pharmaceutical Analysis, Anurag University, Hyderabad, 500088, India; Gupta, J.K., Institute of Pharmaceutical Research, GLA University, Mathura, 281406, India; Bakshi, V., Department of Pharmaceutics, Anurag University, Hyderabad, 500088, India; Ghoneim, M.M., Department of Pharmacy Practice, College of Pharmacy, Al-Maarefa University, Ad Diriyah, 13713, Saudi Arabia; Alshehri, S., Department of Pharmaceutics Sciences, College of Pharmacy, Al-Maarefa University, Ad Diriyah 13713, Riyadh, Saudi Arabia; Jahangir, M.A., Department of Pharmaceutics, Nibha Institute of Pharmaceutical Sciences, Rajgir, 803116, India; Ansari, M.J., Department of Pharmaceutics, College of Pharmacy, Prince Sattam Bin Abdulaziz University, AlKharj, 11942, Saudi Arabia	Molecules	2022	14203049
5443	Influence of sintering temperature on structural, electrical, and magnetoelectric properties of multiferroic Fe-substituted BaTiO ₃ ceramics	Rani A., Kolte J., Gopalan P.	Rani, A., IES University, MP, Bhopal, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gopalan, P., IES University, MP, Bhopal, India, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Applied Physics A: Materials Science and Processing	2022	9478396
5444	Structural, dielectric, impedance and modulus studies of lead-free (1 - x)Bi _{0.5} Na _{0.5} TiO ₃ -xBaTiO ₃ (x = 0,0.06,0.08)-based ceramics	Kaur K., Gautam A., Shakti N., Uniyal P.	Kaur, K., Smart Materials Laboratory, School of Physics & Materials Science, Thapar University, Punjab, Patiala, 147004, India, Department of Physics, University Institute of Sciences, Chandigarh University, Punjab, Gharuan, 140413, India; Gautam, A., Department of Applied Sciences, CGC-TC, Jhanjeri, Punjab, Mohali, 140055, India; Shakti, N., Smart Materials Laboratory, School of Physics & Materials Science, Thapar University, Punjab, Patiala, 147004, India; Uniyal, P., Smart Materials Laboratory, School of Physics & Materials Science, Thapar University, Punjab, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2022	9574522
5445	Reliability and Industrial Engineering Problems: Theory & Applications	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India	Recent Advances in Computer Science and Communications	2022	26662558
5446	Aspect-based Sentiment Analysis using Dependency Parsing	Rani S., Kumar P.	Rani, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	ACM Transactions on Asian and Low-Resource Language Information Processing	2022	23754699
5447	Combination of MoS ₂ nanopetals with Ag nanoparticles decorated graphene oxide for boosting photocatalytic abatement of recalcitrant pollutants under visible light irradiation	Monga D., Basu S.	Monga, D., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Advanced Powder Technology	2022	9218831
5448	Photocatalytic studies of Zn-doped and (Y, Zn)-co-doped CeO ₂ /CdS heterostructures for the removal of crystal violet dye	Sharma P.K., Pandey O.P.	Sharma, P.K., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Materials Science: Materials in Electronics	2022	9574522
5449	Exploring multi-tasking learning in document attribute classification	Mondal T., Das A., Ming Z.	Mondal, T., Mathematical & Electrical Engineering Department, IMT Atlantique, Brest, France; Das, A., Thapar University, Punjab, India; Ming, Z., L3i, University of La-Rochelle, France	Pattern Recognition Letters	2022	1678655
5450	Broadband cavity soliton with graphene saturable absorber	Nagi J.K., Jana S.	Nagi, J.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, PIN-147004, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, PIN-147004, India	Chaos, Solitons and Fractals	2022	9600779
5451	S2RC: A multi-objective route planning and charging slot reservation approach for electric vehicles considering state of traffic and charging station	Kumar A., Kumar R., Aggarwal A.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of King Saud University - Computer and Information Sciences	2022	13191578
5452	A wide-swing class-AB level-shifted bulk-driven folded flipped voltage follower cell with the low output resistance	Jindal C., Pandey R.	Jindal, C., ECED, TIET, Patiala, India; Pandey, R., ECED, TIET, Patiala, India	Analog Integrated Circuits and Signal Processing	2022	9251030

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5453	Quantifying prognosis severity of COVID-19 patients from deep learning based analysis of CT chest images	Rana A., Singh H., Mavuduru R., Pattanaik S., Rana P.S.	Rana, A., Department of Computer Science and Engineering, TIET, Punjab, Patiala, India; Singh, H., Department of Computer Science and Engineering, TIET, Punjab, Patiala, India; Mavuduru, R., Department of Urology and Pharmacology, PGIMER, Chandigarh, India; Pattanaik, S., Department of Urology and Pharmacology, PGIMER, Chandigarh, India; Rana, P.S., Department of Computer Science and Engineering, TIET, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5454	The identities of n-dimensional s-transform and applications	Ranjan R., Jindal N., Singh A.K.	Ranjan, R., Department of Electronics & Communication Engineering, Punjab, India, Chandigarh University, Gharuan (Mohali), Punjab, India; Jindal, N., Department of Electronics & Communication Engineering, Punjab, India, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Electronics & Communication Engineering, Punjab, India, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2022	13807501
5455	Artificial intelligence applications for target node positions in wireless sensor networks using single mobile anchor node	Himanshu, Khanna R., Kumar A.	Himanshu, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., Chandigarh College of Engineering and Technology, Chandigarh, India	Computers and Industrial Engineering	2022	3608352
5456	An Efficient and Credible Grid-Interfaced Solar PV Water Pumping System With Energy Storage	Mishra A.K., Singh B., Kim T.	Mishra, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, 110016, India; Kim, T., Department of Electrical and Computer Engineering, University of Michigan-Dearborn, Dearborn, MI 48128, United States	IEEE Journal of Photovoltaics	2022	21563381
5457	Functional validation of highly synthesizable voltage comparator on FPGA	Gupta A., Singh A., Bansal M., Agarwal A.	Gupta, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, M., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Integration	2022	1679260
5458	BC-EdgeFL: A Defensive Transmission Model Based on Blockchain-Assisted Reinforced Federated Learning in IIoT Environment	Zhang P., Hong Y., Kumar N., Alazab M., Alshehri M.D., Jiang C.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Hong, Y., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Alazab, M., Charles Darwin University, Casuarina, NT 0811, Australia; Alshehri, M.D., Department of Computer Science, College of Computers and Information Technology, Taif University, Taif, 11099, Saudi Arabia; Jiang, C., Beijing National Research Center for Information Science and Technology, Beijing, 100084, China, Tsinghua University, Beijing, 100084, China, Tsinghua Space Center, Tsinghua University, Beijing, 100084, China	IEEE Transactions on Industrial Informatics	2022	15513203
5459	CitEnergy: A BERT based model to analyse Citizens' Energy-Tweets	Bedi J., Toshniwal D.	Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Toshniwal, D., Department of Computer Science and Engineering, Indian Institute of Technology, Uttarakhand, Roorkee (IITR), India	Sustainable Cities and Society	2022	22106707
5460	Deciphering the role of β -phase Bi ₂ O ₃ nanorods incorporated on g-C ₃ N ₄ nanosheets for efficient pollutant removal	Nagar A., Basu S.	Nagar, A., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Physics and Chemistry of Solids	2022	223697
5461	Antibacterial activity of colloidal copper nanoparticles against Gram-negative (Escherichia coli and Proteus vulgaris) bacteria	Sharma P., Goyal D., Chudasama B.	Sharma, P., Department Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, D., Department Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India, Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, India	Letters in Applied Microbiology	2022	2668254
5462	Phase formation between La(Sr)Ga(Mg)O ₃ and Ce(La)O ₂ for solid oxide fuel cell applications	Kumar S., Chakraborty A., Kobi S., Gopalan P., Prasanna T.R.S.	Kumar, S., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Maharashtra, Mumbai, India; Chakraborty, A., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Maharashtra, Mumbai, India; Kobi, S., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Maharashtra, Mumbai, India; Gopalan, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Prasanna, T.R.S., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Maharashtra, Mumbai, India	Journal of the American Ceramic Society	2022	27820

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5463	A Taxonomy of Multimedia-based Graphical User Authentication for Green Internet of Things	Awan K.A., Ud Din I., Almogren A., Kumar N., Almogren A.	Awan, K.A., Department of Information Technology, The University of Haripur, Haripur, Pakistan; Ud Din, I., Department of Information Technology, The University of Haripur, Haripur, Pakistan; Almogren, A., Department of Art Education, College of Education, King Saud University, Riyadh, Saudi Arabia, Department of Computer Science and Information Engineering, Asia University Taiwan, Department of Computer Science and Engineering, Thapar University, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India; Kumar, N., School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India; Almogren, A., Department of Computer Science, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia	ACM Transactions on Internet Technology	2022	15335399
5464	IBoNN: Intelligent Agent-based Internet of Medical Things framework for detecting brain response from Electroencephalography signal using Bag-of-Neural Network	Nandy S., Adhikari M., Chakraborty S., Alkhayyat A., Kumar N.	Nandy, S., Department of Computer Science & Engineering, ASETK, Amity University Kolkata, India; Adhikari, M., Department of Computer Science, Indian Institute of Information Technology Lucknow, India; Chakraborty, S., Department of Information Technology, AIITK, Amity University Kolkata, India; Alkhayyat, A., College of Technical engineering, The Islamic University, Najaf, Iraq; Kumar, N., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, India	Future Generation Computer Systems	2022	0167739X
5465	Convective Flow of Non-homogeneous Fluid Conveying Nano-Sized Particles with Non-Fourier Thermal Relaxation: Application in Polymer Coating	Ray A.K., Vasu B., Murthy P.V.S.N., Anwar Bég O., Gorla R.S.R., Kumar B.	Ray, A.K., Engineering Mathematics and Computing, Madhav Institute of Technology and Science Gwalior, Madhya Pradesh, Gwalior, 474005, India, Centre for Applied Mathematics and Computing, ITER, Siksha 'O' Anusandhan, Odisha, Bhubaneswar, 751030, India; Vasu, B., Department of Mathematics, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, 211004, India; Murthy, P.V.S.N., Department of Mathematics, Indian Institute of Technology, Kharagpur, 721302, India; Anwar Bég, O., Multi-Physical Engineering Sciences Group, Aeronautical/Mechanical Engineering, Salford University, Salford, Greater Manchester, M5 4WT, United Kingdom; Gorla, R.S.R., Department of Aeronautics and Astronautics, Air Force Institute of Technology, Wright Patterson Air Force Base, Dayton, OH, United States; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Arabian Journal for Science and Engineering	2022	2193567X
5466	PF-DA: Pairing Free and Secure Data Aggregation for Energy Internet-Based Smart Meter-to-Grid Communication	Verma G.K., Gope P., Kumar N.	Verma, G.K., Department of Mathematics, Amity School of Engineering and Technology, Amity University, Gwalior, 474005, India; Gope, P., Department of Computer Science, University of Sheffield, Sheffield, S1 4DP, United Kingdom; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan, Department of Computing and Informatics, King Abdul Aziz University, Jeddah, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India	IEEE Transactions on Smart Grid	2022	19493053
5467	Cybertwin-Driven Federated Learning Based Personalized Service Provision for 6G-V2X	Prathiba S.B., Raja G., Anbalagan S., Gurumoorthy S., Kumar N., Guizani M.	Prathiba, S.B., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India; Raja, G., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India; Anbalagan, S., Vellore Institute of Technology, School of Computer Science and Engineering, Chennai, 632014, India; Gurumoorthy, S., Anna University, NGNLab, Department of Computer Technology, Chennai, 600025, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taichung city, 40704, Taiwan, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, 248007, India; Guizani, M., Mohamed Bin Zayed University of Artificial Intelligence, Machine Learning Department, Abu Dhabi, 51133, United Arab Emirates	IEEE Transactions on Vehicular Technology	2022	189545
5468	Mathematical modeling and simulation of mechano-chemical effect on two-phase avascular tumor	Sinha S., Singh P.	Sinha, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 1470 04, India; Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 1470 04, India	International Journal of Modern Physics C	2022	1291831
5469	Extracellular resveratrol producing endophytic fungus, Quambalaria cyanescens	Meshram V., Kapoor N., Dwibedi V., Srivastava A., Saxena S.	Meshram, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First floor), Patiala, Punjab 147001, India, Post-doctoral Fellow, Institute of Plant Protection, The Volcani Centre, Agriculture Research Organization, HaMaccabim Road 68, POB 15159, Rishon Lezion, 7528809, Israel; Kapoor, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First floor), Patiala, Punjab 147001, India, Assistant Professor, School of Applied Sciences, Suresh Gyan Vihar University, Mahal Rd, Mahal, Jagatpura, Jaipur, Rajasthan 302017, India; Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First floor), Patiala, Punjab 147001, India, University Institute of Biotechnology, Chandigarh University, H-95 Chandigarh-Ludhiana Highway, Mohali, Punjab, India; Srivastava, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First floor), Patiala, Punjab 147001, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, #BC-213, BC-Link Block (First floor), Patiala, Punjab 147001, India	South African Journal of Botany	2022	2546299

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5470	AI-Envisioned Blockchain-Enabled Signature-Based Key Management Scheme for Industrial Cyber-Physical Systems	Das A.K., Bera B., Saha S., Kumar N., You I., Chao H.-C.	Das, A.K., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Bera, B., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Saha, S., Center for Security Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; You, I., Department of Information Security Engineering, Soonchunhyang University, Asan, 31538, South Korea; Chao, H.-C., Department of Electrical Engineering, National Dong Hwa University, Hualien City, 97401, Taiwan	IEEE Internet of Things Journal	2022	23274662
5471	Incorporation of soluble dietary fiber in comminuted meat products: Special emphasis on changes in textural properties	Younis K., Yousuf O., Qadri O.S., Jahan K., Osama K., Islam R.U.	Younis, K., Department of Bioengineering, Integral University, Lucknow, Uttar Pradesh 226026, India; Yousuf, O., Department of Bioengineering, Integral University, Lucknow, Uttar Pradesh 226026, India; Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Jahan, K., Department of Bioengineering, Integral University, Lucknow, Uttar Pradesh 226026, India; Osama, K., Department of Bioengineering, Integral University, Lucknow, Uttar Pradesh 226026, India; Islam, R.U., Department of Post Harvest Engineering & Technology, Aligarh Muslim University, Aligarh, Uttar Pradesh 202002, India	Bioactive Carbohydrates and Dietary Fibre	2022	22126198
5472	A Robust Access Control Protocol for the Smart Grid Systems	Tanveer M., Khan A.U., Kumar N., Naushad A., Chaudhry S.A.	Tanveer, M., Faculty of Computer Science and Engineering, GIK Institute of Engineering Sciences and Technology, Topi, 23640, Pakistan; Khan, A.U., Faculty of Computer Science and Engineering, GIK Institute of Engineering Sciences and Technology, Topi, 23640, Pakistan; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Naushad, A., School of Electrical Engineering and Computer Science, National University of Sciences and Technology, Islamabad, 44000, Pakistan; Chaudhry, S.A., Department of Computer Engineering, Istanbul Gelisim University, Istanbul, 34310, Turkey	IEEE Internet of Things Journal	2022	23274662
5473	Toward Tailored Resource Allocation of Slices in 6G Networks with Softwarization and Virtualization	Cao H., Du J., Zhao H., Luo D.X., Kumar N., Yang L., Yu F.R.	Cao, H., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Du, J., Shan'Xi Key Laboratory of Information Communication Network and Security, School of Communications and Information Engineering, Xi'an University of Posts and Telecommunications, Xi'an, 710121, China; Zhao, H., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Luo, D.X., Department of Computing, The Hong Kong Polytechnic University, Hong Kong, Hong Kong; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Yang, L., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Yu, F.R., Department of Systems and Computer Engineering, Carleton University, Ottawa, ON K1S 5B6, Canada	IEEE Internet of Things Journal	2022	23274662
5474	Heat treatment T4 and T6 effects on the tribological properties of sillimanite mineral-reinforced LM30 aluminium alloy composites at elevated temperatures	Sharma S., Nanda T., Pandey O.M.P.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, India, Mechanical Engineering Department, Maharishi Markandeshwar University, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, India; Pandey, O.M.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, India	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2022	13506501
5475	A Systematic Review on Foggy Datasets: Applications and Challenges	Juneja A., Kumar V., Singla S.K.	Juneja, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Computer Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Archives of Computational Methods in Engineering	2022	11343060
5476	Diabetic Retinopathy Diagnosis Through Computer-Aided Fundus Image Analysis: A Review	Kaur J., Mittal D., Singla R.	Kaur, J., Research and Development Department, Chandigarh Group of Colleges, Landran, Mohali, 140307, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, R., Research and Development Department, Chandigarh Group of Colleges, Landran, Mohali, 140307, India	Archives of Computational Methods in Engineering	2022	11343060
5477	A Characterization Approach for the Review of CAD Systems Designed for Breast Tumor Classification Using B-Mode Ultrasound Images	Kriti, Virmani J., Agarwal R.	Kriti, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Virmani, J., CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, 160030, India; Agarwal, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Archives of Computational Methods in Engineering	2022	11343060
5478	Triple diode parameter estimation of solar PV cell using hybrid algorithm	Singla M.K., Nijhawan P.	Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, India	International Journal of Environmental Science and Technology	2022	17351472
5479	Validating the role of digital payment mode as a new driver of online shopping: A modified UTAUT2 model	Gupta S., Kiran R., Sharma R.K.	Gupta, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Public Affairs	2022	14723891

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5480	Comparison of mechanical and morphological properties of 3-D printed functional prototypes: Multi and hybrid blended thermoplastic matrix	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Punjab, Ludhiana, India, Department of Mechanical Engineering, National Institute of Technical Teachers Training Research, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
5481	On mechanical and surface properties of electro-active polymer matrix-based 3D printed functionally graded prototypes	Sharma R., Singh R., Batish A.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Punjab, Ludhiana, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
5482	On investigations of thermal conductivity, circumferential compressive strength, and surface characterization of 3D-printed hybrid blended magnetostrictive PLA composite	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Punjab, Ludhiana, India, Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Punjab, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
5483	Twin-screw extrusion for processing thermoplastics in biomedical scaffolding applications	Ranjan N., Singh R., Kumar R., Sharma R.	Ranjan, N., University Center for Research and Development, Chandigarh University, Chandigarh, India; Singh, R., National Institute of Technical Teachers Training and Research, Chandigarh, India; Kumar, R., University Center for Research and Development, Chandigarh University, Chandigarh, India; Sharma, R., Thapar University, Patiala, India	Additive Manufacturing for Plastic Recycling: Efforts in Boosting A Circular Economy	2022	
5484	Hybrid mechanical and chemical recycling of plastics	Sharma R., Singh R., Batish A., Ranjan N.	Sharma, R., Thapar University, Patiala, India; Singh, R., National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Thapar University, Patiala, India; Ranjan, N., University Center for Research and Development, Chandigarh University, Chandigarh, India	Additive Manufacturing for Plastic Recycling: Efforts in Boosting A Circular Economy	2022	
5485	Performance analysis of erosion resistant Mo2C reinforced WC-CoCr coating for pump impeller with Taguchi's method	Singh J., Singh J.P.	Singh, J., Thapar Institute of Engineering and Technology, Patiala, India; Singh, J.P., School of Mechanical Engineering, Lovely Professional University, Phagwara, India	Industrial Lubrication and Tribology	2022	368792
5486	Effect of Se content on the oxygen evolution reaction activity and capacitive performance of MoSe2 nanoflakes	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electrochimica Acta	2022	134686
5487	Antibody and T Cell Immune Responses to SARS-CoV-2 Peptides in COVID-19 Convalescent Patients	Garanina E., Hamza S., Stott-Marshall R.J., Martynova E., Markelova M., Davidiyuk Y., Shakirova V., Kaushal N., Baranwal M., Khaertynova I.M., Rizvanov A., Foster T.L., Khaiboullina S.	Garanina, E., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Hamza, S., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Stott-Marshall, R.J., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, University of Nottingham, Loughborough, United Kingdom; Martynova, E., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Markelova, M., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Davidiyuk, Y., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Shakirova, V., Department of Infectious Diseases, Kazan State Medical University, Kazan, Russian Federation; Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Khaertynova, I.M., Department of Infectious Diseases, Kazan State Medical University, Kazan, Russian Federation; Rizvanov, A., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Foster, T.L., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, University of Nottingham, Loughborough, United Kingdom; Khaiboullina, S., Intitute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation	Frontiers in Microbiology	2022	1664302X
5488	Synthesis and catalytic study of CeO2 heterostructures with (Zn0.003-xCd)xS0.003 for the removal of crystal violet dye	Sharma P.K., Pandey O.P.	Sharma, P.K., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Physica B: Condensed Matter	2022	9214526
5489	Human resource practices, employee competencies and firm performance: a 2-1-2 multilevel mediational analysis	Kaur S., Kaur G.	Kaur, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Personnel Review	2022	483486
5490	Virology	Sannigrahi M.K., Deepika	Sannigrahi, M.K., Post Graduate Institute of Medical Education and Research, Chandigarh, India; Deepika, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Medical Microbiology	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5491	Superior adsorptive removal of brilliant green and phenol red dyes mixture by CaO nanoparticles extracted from egg shells	Thakur S., Singh S., Pal B.	Thakur, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Nanostructure in Chemistry	2022	20089244
5492	The Generalized Hyperstability of General Linear Equation in Quasi-2-Banach Space	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Acta Mathematica Scientia	2022	2529602
5493	A critical review on damage modeling and failure analysis of pin joints in fiber reinforced composite laminates	Gupta A., Singh M., Singh J., Singh S., Prakash C.	Gupta, A., School of Mechanical Engineering, Lovely Professional University, Phagwara, India; Singh, M., School of Mechanical Engineering, Lovely Professional University, Phagwara, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S., Centre for Nanofibers and Nanotechnology, National University of Singapore, Singapore; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Phagwara, India	Polymers and Polymer Composites	2022	9673911
5494	Hot corrosion performance of bare and coated T91 steel under actual and simulated bio-fuel fired boiler environment	Kumar M., Mudgal D., Ahuja L.	Kumar, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 1470 01, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 1470 01, India; Ahuja, L., Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Punjab148 001, India	Indian Journal of Engineering and Materials Sciences	2022	9714588
5495	Impact of Drivers of Change (Digitalization, Demonetization, and Consolidation of Banks) With Mediating Role of Nature of Training and Job Enrichment on the Banking Performance	Bahl K., Kiran R., Sharma A.	Bahl, K., Thapar Institute of Engineering and Technology (Deemed to be a University), Patiala, India; Kiran, R., Thapar Institute of Engineering and Technology (Deemed to be a University), Patiala, India; Sharma, A., Thapar Institute of Engineering and Technology (Deemed to be a University), Patiala, India	SAGE Open	2022	21582440
5496	Motivation for Ecopreneurial Behavior (MEB): Scale Development and Validation	Guleria D., Kaur G.	Guleria, D., Thapar Institute of Engineering Technology (Deemed to be University), Patiala, India; Kaur, G., Thapar Institute of Engineering Technology (Deemed to be University), Patiala, India	SAGE Open	2022	21582440
5497	Radially excited ($n = 3$) charm mesons in heavy quark effective theory	Garg R., Kumar K., Upadhyay A.	Garg, R., School Of Physics And Materials Science, Thapar Institute Of Engineering And Technology, Punjab, Patiala, 147004, India; Kumar, K., School Of Physics And Materials Science, Thapar Institute Of Engineering And Technology, Punjab, Patiala, 147004, India; Upadhyay, A., School Of Physics And Materials Science, Thapar Institute Of Engineering And Technology, Punjab, Patiala, 147004, India	Progress of Theoretical and Experimental Physics	2022	20503911
5498	Impact of channel parameters on threshold voltage at variable temperatures of Double-gate CNTFET	Lakhanpal A., Sandha K.S.	Lakhanpal, A., Research Scholar, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sandha, K.S., Assistant Professor, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Micro and Nanostructures	2022	27730123
5499	Machine Learning Regression Approaches for Prediction Microhardness of Al-Y2O3Composite	Rathore S., Singh R.K.R., Khan K.L.A.	Rathore, S., KIET Group of Institutions, AKTU, Ghaziabad, Lucknow, India; Singh, R.K.R., Thapar Institute of Engineering and Technology, Patiala, India; Khan, K.L.A., Dean IEC, KIET Group of Institutions, Ghaziabad, India	International Journal of Engineering Trends and Technology	2022	23490918
5500	Fragmentation analysis of $Z=112-116$ nuclei using a Skyrme energy density formalism within the collective clusterization approach	Rajni, Sandhu K., Sharma M.K.	Rajni, Department of Physics, Sardar Vallabhbhai National Institute of Technology, Gujarat, Surat, 395007, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sandhu, K., P.G. Department of Physics, G.S.S.D.G.S Khalsa College, Punjab, Patiala, 147001, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Review C	2022	24699985
5501	Cluster decay half-lives of Ba 112-122 isotopes from the ground state and intrinsic excited state using the relativistic mean-field formalism within the preformed-cluster-decay model	Majekodunmi J.T., Bhuyan M., Jain D., Anwar K., Abdullah N., Kumar R.	Majekodunmi, J.T., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, Universiti Malaysia Perlis, Perlis, 02600, Malaysia; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, University of Malaya, Kuala Lumpur, 50603, Malaysia; Jain, D., Department of Physics, Mata Gujri College, Punjab140407, India; Anwar, K., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, Universiti Malaysia Perlis, Perlis, 02600, Malaysia; Abdullah, N., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, Universiti Malaysia Perlis, Perlis, 02600, Malaysia; Kumar, R., School of Physics and Science, Thapar Institute of Engineering and Technology, Punjab147004, India	Physical Review C	2022	24699985
5502	What Do I Know About Social-Emotional Learning: A Comparative Analysis Between Public and Private Preschool Teachers in Punjab	Kaur J., Sharma A.	Kaur, J., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, A., Thapar Institute of Engineering & Technology, Patiala, India	SAGE Open	2022	21582440

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5503	Fusion cross section of α -induced reactions for heavy target nuclei	Kumar R., Rana S., Bhuyan M., Mohr P.	Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Mohr, P., Institute of Nuclear Research (ATOMKI), Debrecen, H-4001, Hungary	Physical Review C	2022	24699985
5504	Ternary fission analysis of Fm 242,258 nuclei using equatorial and collinear cluster tripartition configurations	Sharma N., Kaur A., Sharma M.K.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Physics, Faculty of Science, University of Zagreb, Bijenička c.32, Zagreb, 10000, Croatia; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Review C	2022	24699985
5505	A Hybrid Deep Learning Approach for ECG-Based Arrhythmia Classification	Madan P., Singh V., Singh D.P., Diwakar M., Pant B., Kishor A.	Madan, P., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, 248002, India; Singh, V., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, 248002, India; Singh, D.P., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, 248002, India; Diwakar, M., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, 248002, India; Pant, B., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Dehradun, 248002, India; Kishor, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bioengineering	2022	23065354
5506	Stacking classifier to improve the classification of shoulder motion in transhumeral amputees	Kaur A.	Kaur, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Biomedizinische Technik	2022	135585
5507	Daily Inclusion of Resistant Starch-Containing Potatoes in a Dietary Guidelines for Americans Dietary Pattern Does Not Adversely Affect Cardiometabolic Risk or Intestinal Permeability in Adults with Metabolic Syndrome: A Randomized Controlled Trial	Cao S., Shaw E.L., Quarles W.R., Sasaki G.Y., Dey P., Hodges J.K., Pokala A., Zeng M., Bruno R.S.	Cao, S., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Shaw, E.L., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Quarles, W.R., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Sasaki, G.Y., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Dey, P., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Hodges, J.K., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Pokala, A., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Zeng, M., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States; Bruno, R.S., Human Nutrition Program, The Ohio State University, Columbus, OH 43210, United States	Nutrients	2022	20726643
5508	An Efficient Privacy-Preserving Authenticated Key Establishment Protocol for Health Monitoring in Industrial Cyber-Physical Systems	Shamshad S., Mahmood K., Hussain S., Garg S., Das A.K., Kumar N., Rodrigues J.J.P.C.	Shamshad, S., Department Of Computer Science, Comsats University Islamabad, Sahiwal Campus, Sahiwal, 57000, Pakistan; Mahmood, K., Department Of Computer Science, Comsats University Islamabad, Sahiwal Campus, Sahiwal, 57000, Pakistan; Hussain, S., Department Of Computer Science, University Of Sahiwal, Sahiwal, 57000, Pakistan; Garg, S., Electrical Engineering Department, École De Technologie Supérieure, Montreal, QC H3C 1K3, Canada; Das, A.K., Center For Security, Theory And Algorithmic Research, International Institute Of Information Technology, Hyderabad, 500032, India; Kumar, N., Department Of Computer Science And Engineering, Thapar Institute Of Engineering And Technology, Patiala, 147004, India; Rodrigues, J.J.P.C., Ppgee, Federal University Of Piauí, Teresina, 64049-550, Brazil	IEEE Internet of Things Journal	2022	23274662
5509	Light charged particle emission from Pb isotopes formed in n-induced channel and related structural analysis	Kaur A., Sandhu K., Sawhney G., Sharma M.K.	Kaur, A., Department of Physics, School of Basic and Applied Sciences, RIMT University, Punjab, Mandi Gobindgarh, Fatehgarh Sahib, 140406, India; Sandhu, K., P. G. Department of Physics, G. S. S. D. G. S. Khalsa College, Punjab, Patiala, 147001, India; Sawhney, G., Department of Physics, University Institute of Sciences, Chandigarh University, Punjab, Gharuan, Mohali, 140413, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	European Physical Journal A	2022	14346001
5510	Residual effect of defeated stripe rust resistance genes/QTLs in bread wheat against prevalent pathotypes of Puccinia striiformis f. sp. tritici	Singh H., Kaur J., Bala R., Srivastava P., Sharma A., Grover G., Dhillon G.S., Singh R.P., Chhuneja P., Bains N.S.	Singh, H., Department of Fruit Science, PAU, Ludhiana, India; Kaur, J., Department of Plant Breeding & Genetics, PAU, Ludhiana, India; Bala, R., Department of Plant Breeding & Genetics, PAU, Ludhiana, India; Srivastava, P., Department of Plant Breeding & Genetics, PAU, Ludhiana, India; Sharma, A., Department of Plant Breeding & Genetics, PAU, Ludhiana, India; Grover, G., Department of Plant Breeding & Genetics, PAU, Ludhiana, India; Dhillon, G.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R.P., Department of Plant Breeding & Genetics, PAU, Ludhiana, India; Chhuneja, P., School of Agricultural Biotechnology, PAU, Ludhiana, India; Bains, N.S., Department of Plant Breeding & Genetics, PAU, Ludhiana, India	PLoS ONE	2022	19326203
5511	Significance driven inverse distance weighted filter to restore impulsive noise corrupted X-ray image	Garg B., Rana P.S., Rathor V.S.	Garg, B., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rathor, V.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2022	18685137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5512	Enhanced photoluminescence in Dy ³⁺ /Au co-doped bismuth borosilicate glass	Singla S., Kaur S., Mahendru N., Pandey O.P., Chopra N., Sharma G.	Singla, S., Department of Physics, University Institute of Sciences, Chandigarh University, Gharuan, Mohali, 140413, India; Kaur, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India, Department of Physics, Kanya Maha Vidyalaya, Punjab, Jalandhar, 144004, India; Mahendru, N., Sikh National College, Banga144505, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Chopra, N., Department of Physics, Kanya Maha Vidyalaya, Punjab, Jalandhar, 144004, India; Sharma, G., Department of Physics, Kanya Maha Vidyalaya, Punjab, Jalandhar, 144004, India	Optical Materials	2022	9253467
5513	Study of digital/analog performance parameters of misaligned gate recessed double gate junctionless field-effect-transistor for circuit level application	Kumar S., Chatterjee A.K., Pandey R.	Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chatterjee, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Semiconductor Science and Technology	2022	2681242
5514	Performance Analysis at different millimetre wave frequencies for indoor shopping complex and outdoor UAV applications towards 5G	Gupta A., Vardhan A.V.H., Tanwar S., Kumar N., Singh A.	Gupta, A., School of Electronics and Electrical Engineering Lovely Professional University, Punjab, Phagwara, India; Vardhan, A.V.H., School of Electronics and Electrical Engineering Lovely Professional University, Punjab, Phagwara, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, University of Petroleum and Energy Studies, Dehradun, India; Singh, A., University of Petroleum and Energy Studies, Dehradun, India	Microprocessors and Microsystems	2022	1419331
5515	Effect of Graphene Oxide Dispersed Natural Ester Based Insulating Oil on Transformer Solid Insulation	Siddique Z.B., Basu S., Basak P.	Siddique, Z.B., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, 147004, India; Basu, S., Thapar Institute of Engineering and Technology, School of Chemistry and Bio-Chemistry, Patiala, 147004, India; Basak, P., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, 147004, India	IEEE Transactions on Dielectrics and Electrical Insulation	2022	10709878
5516	Endophytic fungi: a potential source of industrial enzyme producers	Bhadra F., Gupta A., Vasundhara M., Reddy M.S.	Bhadra, F., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Gupta, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	3 Biotech	2022	2190572X
5517	Untangling the role of tri-trophic food chain model in sustaining quokka population	Jain S., Roy P.	Jain, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Roy, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Biomathematics	2022	17935245
5518	A novel unsupervised multiple feature hashing for image retrieval and indexing (MFHIRI)	Sharma S., Gupta V., Juneja M.	Sharma, S., Thapar Institute of Engineering & Technology, Patiala, India, University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Gupta, V., University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Juneja, M., University Institute of Engineering and Technology, Panjab University, Chandigarh, India	Journal of Visual Communication and Image Representation	2022	10473203
5519	QoS aware task consolidation approach for maintaining SLA violations in cloud computing	Singh P., Prakash V., Bathla G., Singh R.K.	Singh, P., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Prakash, V., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Bathla, G., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Singh, R.K., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India	Computers and Electrical Engineering	2022	457906
5520	Enhanced photocatalytic activity with metal ion doping and co-doping in CeO ₂ nanoparticles	Sharma P.K., Pandey O.P.	Sharma, P.K., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Solid State Sciences	2022	12932558
5521	Drug-loaded biomaterials for orthopedic applications: A review	Aggarwal D., Kumar V., Sharma S.	Aggarwal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., Department of Biotechnology Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Controlled Release	2022	1683659
5522	MNERLP-MUL: Merged node and edge relevance based link prediction in multiplex networks	Mishra S., Singh S.S., Kumar A., Biswas B.	Mishra, S., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, India; Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Biswas, B., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, India	Journal of Computational Science	2022	18777503

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5523	Oxidation in Iron–Copper and Iron–Phosphorous Binary Alloys: Relating Alloying and Metal-Oxide Crystallography with Oxidation Resistance	Mehtani H.K., Khan M.I., Raut P., Parida S., Prasad M.J.N.V., Fullwood D., Doherty R.D., Samajdar I.	Mehtani, H.K., Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai, 400076, India, Department of Mechanical Engineering, TIET, Patiala, 147004, India; Khan, M.I., Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai, 400076, India; Raut, P., Department of Mechanical Engineering, IIT Bombay, Mumbai, 400076, India; Parida, S., Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai, 400076, India; Prasad, M.J.N.V., Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai, 400076, India; Fullwood, D., Department of Mechanical Engineering Department, Brigham Young University UT 84602, United States; Doherty, R.D., Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai, 400076, India, Department of Materials Science and Engineering, Drexel University, Philadelphia, PA 19104, United States; Samajdar, I., Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai, 400076, India	Oxidation of Metals	2022	0030770X
5524	Synthesis of silica and carbon-based nanomaterials from rice husk ash by ambient fiery and furnace sweltering using a chemical method	Sharma S.K., Sharma G., Sharma A., Bhardwaj K., Preeti K., Singh K., Kumar A., Pal V.K., Choi E.H., Singh S.P., Kaushik N.K.	Sharma, S.K., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Sharma, G., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Sharma, A., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Bhardwaj, K., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Preeti, K., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, A., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Pal, V.K., Biomaterials and Sensor Laboratory, Department of Physics, CCS University, Meerut Campus, Uttar Pradesh, Meerut, 250004, India; Choi, E.H., Plasma Bioscience Research Center, Department of Electrical and Biological Physics, Kwanwoon University, Seoul01897, South Korea; Singh, S.P., Department of Physics, SSV College (affl. CCS University), Uttar Pradesh, Hapur, 245101, India; Kaushik, N.K., Plasma Bioscience Research Center, Department of Electrical and Biological Physics, Kwanwoon University, Seoul01897, South Korea	Applied Surface Science Advances	2022	26665239
5525	Verifiable medical images for E-healthcare: A novel watermarking approach using robust bit-wise association of self-mutating offsprings of pixels	Shivani S.	Shivani, S., Thapar Institute of Engineering and Technology, India	Microprocessors and Microsystems	2022	1419331
5526	Recent developments on 1,8-Naphthalimide moiety as potential target for anticancer agents	Tandon R., Luxami V., Tandon N., Paul K.	Tandon, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tandon, N., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bioorganic Chemistry	2022	452068
5527	Exploring diet associations with Covid-19 and other diseases: a Network Analysis–based approach	Toor R., Chana I.	Toor, R., Cloud and IoT Research Lab, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Chana, I., Cloud and IoT Research Lab, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Medical and Biological Engineering and Computing	2022	1400118
5528	Reference evapotranspiration prediction using high-order response surface method	Keshtegar B., Abdullah S.S., Huang Y.F., Saggi M.K., Khedher K.M., Yaseen Z.M.	Keshtegar, B., Department of Civil Engineering, Faculty of Engineering, University of Zabol, P.B. 9861335856, Zabol, Iran; Abdullah, S.S., Akre Technical Institute, Duhok Polytechnic University, Dohuk, Iraq; Huang, Y.F., Department of Civil Engineering, Lee Kong Chian Faculty of Engineering and Science, Universiti Tunku Abdul Rahman, Kajang, Malaysia; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, India; Khedher, K.M., Department of Civil Engineering, College of Engineering, King Khalid University, Abha, 61421, Saudi Arabia, Department of Civil Engineering, High Institute of Technological Studies, Mrezgua University, Campus, Nabeul, 8000, Tunisia; Yaseen, Z.M., Adjunct Research Fellow, USQ's Advanced Data Analytics Research Group, School of Mathematics Physics and Computing, University of Southern Queensland, Toowoomba, QLD 4350, Australia, Department of Urban Planning, Engineering Networks and Systems, Institute of Architecture and Construction, South Ural State University, 76, Lenin Prospect, Chelyabinsk, 454080, Russian Federation, College of Creative Design, Asia University, Taichung City, Taiwan, New Era and Development in Civil Engineering Research Group, Scientific Research Center, Al-Ayen University, Thi-Qar, 64001, Iraq, Institute for Big Data Analytics and Artificial Intelligence (IBDAAI), Kompleks Al-Khawarizmi, Universiti Teknologi MARA, Selangor, Shah Alam, 40450, Malaysia	Theoretical and Applied Climatology	2022	0177798X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5529	Assessing the green distribution transformer manufacturing process using a cloud-based q-rung orthopair fuzzy multi-criteria framework	Yang Z., Shang W.-L., Zhang H., Garg H., Han C.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, China; Shang, W.-L., Beijing Key Laboratory of Traffic Engineering, College of Metropolitan Transportation, Beijing University of Technology, Beijing, 100124, China; Zhang, H., Centre for Spatial Information Science, The University of Tokyo, Tokyo, 277-8563, Japan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Han, C., Department of Systems Management and Strategy, University of Greenwich, UK, United Kingdom	Applied Energy	2022	3062619
5530	Emergy-based sustainability analysis of bioenergy production from marginal and degraded lands of India	Edrisi S.A., Sahiba S.A., Chen B., Abhilash P.C.	Edrisi, S.A., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India, State Key Joint Laboratory of Environmental Simulation and Pollution Control, School of Environment, Beijing Normal University, Beijing, 100875, China; Sahiba, S.A., Institute of Management Studies, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India; Chen, B., State Key Joint Laboratory of Environmental Simulation and Pollution Control, School of Environment, Beijing Normal University, Beijing, 100875, China; Abhilash, P.C., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India	Ecological Modelling	2022	3043800
5531	BSense: A parallel Bayesian hyperparameter optimized Stacked ensemble model for breast cancer survival prediction	Kaur P., Singh A., Chana I.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Computational Science	2022	18777503
5532	Influence of Ag/Cu photodeposition on CaTiO ₃ photocatalytic activity for degradation of Rhodamine B dye	Passi M., Pal B.	Passi, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147004, India	Korean Journal of Chemical Engineering	2022	2561115
5533	New Meminductor Emulators Using Single Operational Amplifier and Their Application	Singh A., Rai S.K.	Singh, A., Thapar Institute of Engineering and Technology, ECED, Punjab, Patiala, India; Rai, S.K., Thapar Institute of Engineering and Technology, ECED, Punjab, Patiala, India	Circuits, Systems, and Signal Processing	2022	0278081X
5534	Design of water-based polyvinyl alcohol coatings using a drying modifier to minimize the residual solvent and coating defects	Rawat M., Ahuja S.	Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India	Iranian Polymer Journal (English Edition)	2022	10261265
5535	Holistic versus segmentation-based recognition of handwritten Devanagari conjunct characters: a CNN-based experimental study	Gupta D., Bag S.	Gupta, D., Department of Computer Science and Engineering, Indian Institute of Technology (ISM), Dhanbad, Dhanbad, 826004, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bag, S., Department of Computer Science and Engineering, Indian Institute of Technology (ISM), Dhanbad, Dhanbad, 826004, India	Neural Computing and Applications	2022	9410643
5536	Influence of physical layer impairments on connection provisioning of WDM Networks	Kaur K., Kumar A., Singh H.	Kaur, K., Amity School of Engineering and Technology, Amity University Haryana, Gurugram, 122413, India; Kumar, A., Amity School of Engineering and Technology, Amity University Haryana, Gurugram, 122413, India; Singh, H., Electronics and Communication Engineering Department, Thapar University, Patiala, 147001, India	Photonic Network Communications	2022	1387974X
5537	A review of bipolar plate materials and flow field designs in the all-vanadium redox flow battery	Gautam R.K., Kumar A.	Gautam, R.K., Indian Institute of Technology Delhi, Hauz-Khas, New Delhi 110016, India; Kumar, A., Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Energy Storage	2022	2352152X
5538	Design and analysis of a compact ultrathin ultra-wideband metamaterial absorber with near to unity absorption for Ku-band	Puri V., Singh H.S.	Puri, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, TIET-VT Center of Excellence for Emerging Materials, TIET, Patiala, India	International Journal of RF and Microwave Computer-Aided Engineering	2022	10964290
5539	Clayey soil stabilization using alkali-activated volcanic ash and slag	Miraki H., Shariatmadari N., Ghadir P., Jahandari S., Tao Z., Siddique R.	Miraki, H., Department of Civil Engineering, Iran University of Science and Technology, Tehran, Iran; Shariatmadari, N., Department of Civil Engineering, Iran University of Science and Technology, Tehran, Iran; Ghadir, P., Department of Civil Engineering, Iran University of Science and Technology, Tehran, Iran; Jahandari, S., Centre for Infrastructure Engineering, Western Sydney University, Penrith, NSW 2751, Australia; Tao, Z., Centre for Infrastructure Engineering, Western Sydney University, Penrith, NSW 2751, Australia; Siddique, R., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Rock Mechanics and Geotechnical Engineering	2022	16747755

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5540	Correction to: A hybrid deep neural network approach to estimate reference evapotranspiration using limited climate data (Neural Computing and Applications, (2022), 34, 5, (4013-4032), 10.1007/s00521-021-06661-9)	Sharma G., Singh A., Jain S.	Sharma, G., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2022	9410643
5541	A new design self-balanced 13-level switched-capacitor inverter	Jena K., Panigrahi C.K., Gupta K.K.	Jena, K., School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar, India; Panigrahi, C.K., School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar, India; Gupta, K.K., Electrical and Instrumentation, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2022	989886
5542	Evaluation of damage in GFRP repaired steel fiber reinforced concrete beams using acoustic emission technique	Goyal P., Sharma S., Kwatra N.	Goyal, P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Structural Concrete	2022	14644177
5543	System sizing of hybrid solar-fuel cell battery energy system using artificial bee colony algorithm with predator effect	Singh S., Singh N., Gupta A.	Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Energy Research	2022	0363907X
5544	Novel distance measures for intuitionistic fuzzy sets based on various triangle centers of isosceles triangular fuzzy numbers and their applications	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab 147004, India	Expert Systems with Applications	2022	9574174
5545	QoS Aware Uplink Scheduling for M2M Communication in LTE/LTE-A Network: A Game Theoretic Approach	Singh U., Dua A., Kumar N., Guizani M.	Singh, U., Birla Institute of Technology and Science, Pilani, 333031, India; Dua, A., Birla Institute of Technology and Science, Pilani, 333031, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, PB 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248001, India; Guizani, M., Machine Learning Department, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, United Arab Emirates	IEEE Transactions on Vehicular Technology	2022	189545
5546	Performance analysis of space time coded generalized frequency division multiplexing system over generalized fading channels	Kalsotra S., Kumar Singh A., Dutt Joshi H.	Kalsotra, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar Singh, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Dutt Joshi, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Transactions on Emerging Telecommunications Technologies	2022	21613915
5547	Durability performance of self-compacting concrete made with waste foundry sand	Sandhu R.K., Siddique R.	Sandhu, R.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Structural Concrete	2022	14644177
5548	Multiple forecasting approach: a prediction of CO2 emission from the paddy crop in India	Singh P.K., Pandey A.K., Ahuja S., Kiran R.	Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, A.K., Centre for Integrated Rural Development, Banaras Hindu University, Varanasi, India; Ahuja, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Environmental Science and Pollution Research	2022	9441344
5549	State-of-the-Art Review on Sustainability in Geotechnical Applications of Waste Foundry Sand	Kumar A., Parihar A.	Kumar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Parihar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Indian Geotechnical Journal	2022	9719555
5550	Numerical Modelling of Seismic Behaviour of an Exterior RC Beam Column Joint Strengthened with UHPFRC and CFRP	Fayaz Q., Kaur G., Bansal P.P.	Fayaz, Q., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kaur, G., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Bansal, P.P., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India	Arabian Journal for Science and Engineering	2022	2193567X
5551	An Ontology driven model for detection and classification of cardiac arrhythmias using ECG data	Hooda D., Rani R.	Hooda, D., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., CSED, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Intelligent Information Systems	2022	9259902

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5552	Novel investigation on tribological behavior of microwave synthesized functionally graded claddings	Kaushal S., Gupta D., Bhowmick H.	Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutes, Punjab, Ludhiana, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhowmick, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062
5553	Wideband High Gain Active Feedback Transimpedance Amplifier	Singh P., Gupta M., Aggarwal B., Rai S.K.	Singh, P., FOT, University of Delhi, New Delhi, 110078, India; Gupta, M., Division of ECE, Netaji Subhas University of Technology, New Delhi, 110078, India; Aggarwal, B., Division of ECE, Netaji Subhas University of Technology, New Delhi, 110078, India; Rai, S.K., ECE Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Wireless Personal Communications	2022	9296212
5554	Bushfire Risk Detection Using Internet of Things: An Application Scenario	Nosouhi M.R., Sood K., Kumar N., Wevill T., Thapa C.	Nosouhi, M.R., Centre Of Cyber Security Research Innovation, School Of Information Technology, Deakin University, Geelong, VIC 3220, Australia; Sood, K., Centre Of Cyber Security Research Innovation, School Of Information Technology, Deakin University, Geelong, VIC 3220, Australia; Kumar, N., Department Of Computer Science And Engineering, Thapar University, Patiala, 147004, India; Wevill, T., School Of Life And Environmental Sciences, Deakin University, Geelong, VIC 3220, Australia; Thapa, C., Distributed Systems Security, Data61, Csiro, Marsfield, NSW 2122, Australia	IEEE Internet of Things Journal	2022	23274662
5555	CFR: collaborative feature ranking for improving the performance of credit scoring data classification	Tripathi D., Reddy B.R., Shukla A.K.	Tripathi, D., Thapar Institute of Engineering and Technology Patiala, Punjab, Patiala, India; Reddy, B.R., SRM University AP-Andhra Pradesh, Amaravati, India; Shukla, A.K., VIT-AP University Andhra Pradesh, Amaravati, India	Computing	2022	0010485X
5556	An Optimized Genetic Algorithm for Cluster Head Election Based on Movable Sinks and Adjustable Sensing Ranges in IoT-Based HWSNs	Nandan A.S., Singh S., Kumar R., Kumar N.	Nandan, A.S., Department Of Computer Science And Engineering, Dr. B. R. Ambedkar National Institute Of Technology Jalandhar, Jalandhar, 144011, India; Singh, S., Department Of Computer Science And Engineering, Dr. B. R. Ambedkar National Institute Of Technology Jalandhar, Jalandhar, 144011, India; Kumar, R., Department Of Computer Engineering, Delhi Technological University, New Delhi, 110042, India; Kumar, N., Department Computer Science And Engineering, Thapar University, Patiala, 147004, India	IEEE Internet of Things Journal	2022	23274662
5557	A deep learning framework using CNN and stacked Bi-GRU for COVID-19 predictions in India	Ahuja S., Shelke N.A., Singh P.K.	Ahuja, S., Thapar University, Patiala, India; Shelke, N.A., Thapar University, Patiala, India; Singh, P.K., Thapar University, Patiala, India	Signal, Image and Video Processing	2022	18631703
5558	A Flexible Permission Ascription (FPA)-Based Blockchain Framework for Peer-to-Peer Energy Trading with Performance Evaluation	Pradhan N.R., Singh A.P., Kumar N., Hassan M.M., Roy D.S.	Pradhan, N.R., Department of Computer Science and Engineering, National Institute of Technology Meghalaya, Shillong, India; Singh, A.P., Department of Computer Science and Engineering, National Institute of Technology Meghalaya, Shillong, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Hassan, M.M., Research Pervasive and Mobile Computing, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia; Roy, D.S., Department of Computer Science and Engineering, National Institute of Technology Meghalaya, Shillong, India	IEEE Transactions on Industrial Informatics	2022	15513203
5559	Dynamically adaptive and diverse dual ensemble learning approach for handling concept drift in data streams	Goel K., Batra S.	Goel, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Batra, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Computational Intelligence	2022	8247935
5560	Software system to predict the infection in COVID-19 patients using deep learning and web of things	Singh A., Kaur A., Dhillon A., Ahuja S., Vohra H.	Singh, A., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Dhillon, A., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Ahuja, S., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Vohra, H., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Software - Practice and Experience	2022	380644
5561	Analysis of Underlap Strained Silicon on Insulator MOSFET for Accurate and Compact Modeling	Sharma R., Rana A.K., Kaushal S., King J.B., Raman A.	Sharma, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, A.K., Department of Electronics and Communication Engineering, National Institute of Technology Hamirpur, Himachal Pradesh, Hamirpur, India; Kaushal, S., Department of Electronics and Communication Engineering, National Institute of Technology Hamirpur, Himachal Pradesh, Hamirpur, India; King, J.B., Department of Electrical and Electronics Engineering, Trinity College Dublin, Dublin, Ireland; Raman, A., Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, Jalandhar, India	Silicon	2022	1876990X
5562	An efficient high order iterative scheme for large nonlinear systems with dynamics	Behl R., Bhalla S., Magreñán Á.A., Kumar S.	Behl, R., Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah, 21589, Saudi Arabia; Bhalla, S., Department of Mathematics, Chandigarh University, Mohali, Gharuan 140413, India; Magreñán, Á.A., Departamento de Matemáticas y Computación, Universidad de La Rioja, C/ Madre de Dios, 53, Logroño, La Rioja, Spain; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Computational and Applied Mathematics	2022	3770427

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5563	Multimodal Medical Image Fusion Using Nonsubsampled Shearlet Transform and Smallest Uni-Value Segment Assimilating Nucleus	Ramlal S.D., Sachdeva J., Ahuja C.K., Khandelwal N.	Ramlal, S.D., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Electronics and Telecommunication Engineering Department, Eternal University, Baru Sahib H.P., India, Chitkara University Institute of Engineering and Technology, HP, Baddi, India; Sachdeva, J., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ahuja, C.K., Department of Radio-Diagnosis and Imaging, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Khandelwal, N., Sanjivani Diagnostics, Sector 11D, Chandigarh, India	International Journal of Pattern Recognition and Artificial Intelligence	2022	2180014
5564	Stability- And Crosstalk-Based Performance of Multi- A nd Double-walled Mixed CNT Bundles as Interconnect for Next-Generation Technology Nodes	Dhillon G., Sandha K.S.	Dhillon, G., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sandha, K.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Circuits, Systems and Computers	2022	2181266
5565	Synthesis and Optimization of Diphenyl Ether-Based Receptors for the Selective Detection of Cyanide Ions in Neutral Semi-Aqueous Medium	Kumar A., Chhibber M.	Kumar, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chhibber, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ChemistrySelect	2022	23656549
5566	The dynamics of Indian energy mix: a two-phase analysis	Jha A.P., Singh S.K.	Jha, A.P., LMTSM, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S.K., Indian Institute of Management Lucknow, Lucknow, India	Benchmarking	2022	14635771
5567	Role of Ectomycorrhizal Symbiosis Behind the Host Plants Ameliorated Tolerance Against Heavy Metal Stress	Chot E., Reddy M.S.	Chot, E., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Microbiology	2022	1664302X
5568	Factors influencing the performance of PEM fuel cells: A review on performance parameters, water management, and cooling techniques	Singh R., Oberoi A.S., Singh T.	Singh, R., Mechanical Engineering Department, Punjabi University, Patiala, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, T., Mechanical Engineering Department, Punjabi University, Patiala, India	International Journal of Energy Research	2022	0363907X
5569	A compact dual-polarized co-radiator MIMO antenna for UWB applications	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147 004, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	International Journal of Microwave and Wireless Technologies	2022	17590787
5570	Immunogenic SARS-CoV-2 S and N Protein Peptide and Cytokine Combinations as Biomarkers for Early Prediction of Fatal COVID-19	Martynova E., Hamza S., Markelova M., Garanina E., Davidyuk Y., Shakirova V., Kaushal N., Baranwal M., Stott-Marshall R.J., Foster T.L., Rizvanov A., Khaiboullina S.	Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Hamza, S., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Markelova, M., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Garanina, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Davidyuk, Y., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Shakirova, V., Department of Infectious Diseases, Kazan State Medical Academy, Kazan, Russian Federation; Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Stott-Marshall, R.J., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, Wolfson Centre for Global Virus Research, University of Nottingham, Loughborough, United Kingdom; Foster, T.L., Faculty of Medicine and Health Sciences, School of Veterinary Medicine and Science, Wolfson Centre for Global Virus Research, University of Nottingham, Loughborough, United Kingdom; Rizvanov, A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Khaiboullina, S., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation	Frontiers in Immunology	2022	16643224

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5571	Skin Patchable Sensor Surveillance for Continuous Glucose Monitoring	Manasa G., Mascarenhas R.J., Shetti N.P., Malode S.J., Mishra A., Basu S., Aminabhavi T.M.	Manasa, G., Electrochemistry Research Group, Department of Chemistry, St. Joseph's College (Autonomous), Lalbagh Road Karnataka, Bangalore, 560027, India; Mascarenhas, R.J., Electrochemistry Research Group, Department of Chemistry, St. Joseph's College (Autonomous), Lalbagh Road Karnataka, Bangalore, 560027, India; Shetti, N.P., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Vidyanagar Karnataka, Hubballi, 580031, India; Malode, S.J., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Vidyanagar Karnataka, Hubballi, 580031, India; Mishra, A., Department of Chemical Engineering, Inha University, Incheon, 22212, South Korea; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aminabhavi, T.M., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Vidyanagar Karnataka, Hubballi, 580031, India	ACS Applied Bio Materials	2022	25766422
5572	Numerical simulation of non-uniform heat generation/absorption and dissipation effects on the unsteady MHD flow of a couple-stress dusty fluid	Prashu, Nandkeolyar R., Sangwan V.	Prashu, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nandkeolyar, R., Department of Mathematics, National Institute of Technology Jamshedpur, Jamshedpur, 831014, India; Sangwan, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Conference Proceedings	2022	0094243X
5573	Recent advances in the discovery of bioactive metabolites from xylaria hill ex schrank	Deshmukh S.K., Sridhar K.R., Saxena S., Gupta M.K.	Deshmukh, S.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute, New Delhi, India; Sridhar, K.R., Department of Biosciences, Mangalore University, Mangalagangotri, Mangalore, Karnataka, India, Centre for Environmental Studies, Yenepoya (Deemed to be University), Mangalore, Karnataka, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed to be a University), Patiala, Punjab, India, AGPharm Bio-Innovations LLP, STEP-TIET, Patiala, Punjab, India; Gupta, M.K., SGT College of Pharmacy, SGT University, Gurugram, Haryana, India	Biology, Cultivation and Applications of Mushrooms	2022	
5574	Sustainable utilization of food waste for bioenergy production: A step towards circular bioeconomy	Mohanty A., Mankoti M., Rout P.R., Meena S.S., Dewan S., Kalita B., Varjani S., Wong J.W.C., Banu J.R.	Mohanty, A., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), G.T. Road Bypass, Jalandhar, 144011, India; Mankoti, M., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), G.T. Road Bypass, Jalandhar, 144011, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Meena, S.S., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), G.T. Road Bypass, Jalandhar, 144011, India; Dewan, S., Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Kalita, B., Department of Biotechnology, Thapar Institute of Engineering and Technology (TIET), Patiala, 147001, India; Varjani, S., Gujarat Pollution Control Board, Gujarat, Gandhinagar, 382 010, India; Wong, J.W.C., Institute of Bioresource and Agriculture, Hong Kong Baptist University, Hong Kong; Banu, J.R., Department of Life Science, Central University of Tamilnadu, Thiruvur, 610005, India	International Journal of Food Microbiology	2022	1681605
5575	Identification of alpha-Synuclein Disaggregator from Camellia sp. Insight of Molecular Docking and Molecular Dynamics Simulations	Vats S., Kondabala R., Saxena S.	Vats, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kondabala, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ChemistrySelect	2022	23656549
5576	Fast and lean encrypted Internet traffic classification	Roy S., Shapira T., Shavitt Y.	Roy, S., Thapar Institute of Engineering and Technology, India, School of Electrical Engineering, Tel-Aviv University, Israel; Shapira, T., School of Electrical Engineering, Tel-Aviv University, Israel; Shavitt, Y., School of Electrical Engineering, Tel-Aviv University, Israel	Computer Communications	2022	1403664
5577	A Collaborative Computational Offloading Strategy for Latency-Sensitive Applications in Fog Networks	Sarkar I., Adhikari M., Kumar N., Kumar S.	Sarkar, I., Department of Information Technology, National Institute of Technology Raipur, Raipur, 492010, India; Adhikari, M., Department of Computer Science, Indian Institute of Information Technology Lucknow, Lucknow, 226002, India; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan; Kumar, S., Department of Information Technology, National Institute of Technology Raipur, Raipur, 492010, India	IEEE Internet of Things Journal	2022	23274662
5578	A Scalable Fully-Digital Differential Analog Voltage Comparator	Gupta A., Singh A., Agarwal A.	Gupta, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Circuits, Systems and Computers	2022	2181266
5579	Novel monkey-wrench-shaped microstrip patch sensor for food evaluation and analysis	Nitika, Kaur J., Khanna R.	Nitika, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of the Science of Food and Agriculture	2022	225142

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5580	Exploring the alternatives to the conventional interference mitigation schemes for 5G wireless cellular communication network	Bindle A., Gulati T., Kumar N.	Bindle, A., Department of ECE, Maharishi Markandeshwar (Deemed to be University), Ambala, India; Gulati, T., Department of ECE, Maharishi Markandeshwar (Deemed to be University), Ambala, India; Kumar, N., Department of Computer Science, Thapar University Patiala, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India	International Journal of Communication Systems	2022	10745351
5581	Target Specific Inhibition of Protein Tyrosine Kinase in Conjunction With Cancer and SARS-COV-2 by Olive Nutraceuticals	Ghosh A., Mukerjee N., Sharma B., Pant A., Kishore Mohanta Y., Jawarkar R.D., Bakal R.L., Terefe E.M., Batiha G.E.-S., Mostafa-Hedeab G., Aref Albezrah N.K., Dey A., Baishya D.	Ghosh, A., Microbiology Division, Department of Botany, Gauhati University, Guwahati, India; Mukerjee, N., Department of Microbiology, Ramakrishna Mission Vivekananda Centenary College, Kolkata, India; Sharma, B., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Pant, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Kishore Mohanta, Y., Department of Applied Biology, University of Science and Technology Meghalaya, Ri Bhoi, India; Jawarkar, R.D., Department of Medicinal Chemistry, Dr. Rajendra Gode Institute of Pharmacy, Amravati, India; Bakal, R.L., Department of Medicinal Chemistry, Dr. Rajendra Gode Institute of Pharmacy, Amravati, India; Terefe, E.M., Department of Pharmacology and Pharmacognosy, School of Pharmacy and Health Sciences, United states International University-Africa, Nairobi, Kenya; Batiha, G.E.-S., Department of Pharmacology and Therapeutics, Faculty of Veterinary Medicine, Damanhour University, Damanhour, Egypt; Mostafa-Hedeab, G., Pharmacology Department Health Research Unit-Medical College-Jouf University, Sakakah, Saudi Arabia, Pharmacology Department, Faculty of Medicine, Beni-Suef University, Beni-Suef, Egypt; Aref Albezrah, N.K., Obstetrics and Gynecology Department, College of Medicine, Taif University, Taif, Saudi Arabia; Dey, A., Department of Life Sciences, Presidency University, Kolkata, India; Baishya, D., Department of Bioengineering, Gauhati University, Guwahati, India	Frontiers in Pharmacology	2022	16639812
5582	Evaluation of corrosion inhibition capability of graphene modified epoxy coatings on reinforcing bars in concrete	Sharma N., Sharma S., Sharma S.K., Mahajan R.L., Mehta R.	Sharma, N., Research Scholar, TIET-VT Center of Excellence in Emerging Materials (CEEMS), Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S., Affiliate Faculty, TIET-VT Center of Excellence in Emerging Materials (CEEMS) & Professor, Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S.K., Affiliate Faculty, TIET-VT Center of Excellence in Emerging Materials (CEEMS), Associate Professor, Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mahajan, R.L., Lewis A Hester Chair Professor, Department of Mechanical Engineering, Virginia Tech, Blacksburg, United States, Chair Professor, TIET-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., Coordinator, TIET-VT Center of Excellence in Emerging Materials (CEEMS), Professor and Head, Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Construction and Building Materials	2022	9500618
5583	Hybrid SOM based cross-modal retrieval exploiting Hebbian learning	Kaur P., Malhi A.K., Pannu H.S.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Malhi, A.K., Department of Computer Science, Aalto University, Finland, Department of Computing and Informatics, Bournemouth UniversityUK, United Kingdom; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Knowledge-Based Systems	2022	9507051
5584	New derivative-free iterative family having optimal convergence order sixteen and its applications	Kaur M., Kumar S., Kansal M.	Kaur, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Engineering Computations (Swansea, Wales)	2022	2644401
5585	A 6X-Voltage-Gain 13-Level Inverter with Self-Balanced Switched-Capacitors	Jena K., Panigrahi C.K., Gupta K.K.	Jena, K., KIIT University, Bhubaneswar, 751024, India; Panigrahi, C.K., KIIT University, Bhubaneswar, 751024, India; Gupta, K.K., Thapar University, Punjab147004, India	CPSS Transactions on Power Electronics and Applications	2022	2475742X
5586	The personal protective equipment fabricated via 3D printing technology during COVID-19	Agarwal R.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India	Annals of 3D Printed Medicine	2022	26669641
5587	The application of Three-dimensional printing on foot fractures and deformities: A mini-review	Agarwal R., Malhotra S., Gupta V., Jain V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Malhotra, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Annals of 3D Printed Medicine	2022	26669641
5588	Secure 5G-Assisted UAV Access Scheme in IoT for Region Demarcation and Surveillance Operations	Saraswat D., Bhattacharya P., Singh A., Verma A., Tanwar S., Kumar N.	Saraswat, D., Nirma University, India; Bhattacharya, P., Nirma University, India; Singh, A., Praveer Singh Institute Of Technology, India; Verma, A., Nirma University, India; Tanwar, S., Nirma University, India; Kumar, N., Thapar Institute Of Engineering And Technology, India, University Of Petroleum And Energy Studies, India	IEEE Communications Standards Magazine	2022	24712825
5589	'Sraffa on non-self replacing systems': A comment	Sinha A.	Sinha, A., Thapar Institute of Engineering and Technology, Punjab147004, India	Cambridge Journal of Economics	2022	0309166X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5590	Deep Reinforcement Learning-Based Traffic Light Scheduling Framework for SDN-Enabled Smart Transportation System	Kumar N., Mittal S., Garg V., Kumar N.	Kumar, N., Indian Institute of Technology Roorkee, Roorkee, 247667, India; Mittal, S., ABV-Indian Institute of Information Technology and Management Gwalior, Gwalior, 474015, India; Garg, V., ABV-Indian Institute of Information Technology and Management Gwalior, Gwalior, 474015, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
5591	Dynamic Frequency Scaling of a Single-Core Processor Using Machine Learning Paradigms	Thethi S.K., Kumar R.	Thethi, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Computer Journal	2022	104620
5592	Simulation and Emulation Tools for Fog Computing	Singh S.P., Kumar R., Sharma A., Reddy S.R., Vashisht P.	Singh, S.P., Computer Science and Engineering Department, Chandigarh Engineering College (CEC), Landran, Mohali, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Reddy, S.R., Department of Mathematics & Humanities, Mahatma Gandhi Institute of Technology, Hyderabad, India; Vashisht, P., Computer Science and Engineering Department, The NorthCap University, Gurugram, India	Recent Advances in Computer Science and Communications	2022	26662558
5593	Novel ultrasonic pretreatment for HTC carbon nanosphere size control without yield compromise	Choudhary R., Pandey O.P., Brar L.K.	Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Nanoparticle Research	2022	13880764
5594	Investigation of octupole deformed fragments decaying from even-even isotopes of Th + 222-230	Jain S., Kumar R., Patra S.K., Sharma M.K.	Jain, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Patra, S.K., Institute of Physics, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Review C	2022	24699985
5595	Bacteriobioat—A novel tool to increase the half-life period of the orally administered drug	Kaur P., Ghosh S., Bhowmick A., Gadhave K., Datta S., Ghosh A., Garg N., Mahajan R.L., Basu B., Choudhury D.	Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ghosh, S., Department of Neuroendocrinology and Experimental Hematology, Chittaranjan National Cancer Institute, West Bengal, Kolkata, India; Bhowmick, A., Department of Biochemistry, Bose Institute, EN Block, Sector V, Bidhannagar, West Bengal, Kolkata, 700091, India; Gadhave, K., Indian Institute of Technology (IIT) Mandi, Himachal Pradesh, Mandi, India; Datta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ghosh, A., Department of Biochemistry, Bose Institute, EN Block, Sector V, Bidhannagar, West Bengal, Kolkata, 700091, India; Garg, N., Indian Institute of Technology (IIT) Mandi, Himachal Pradesh, Mandi, India, Department of Medicinal Chemistry, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Mahajan, R.L., Thapar Institute of Engineering and Technology–Virginia Tech (USA) Centre for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Basu, B., Department of Neuroendocrinology and Experimental Hematology, Chittaranjan National Cancer Institute, West Bengal, Kolkata, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Thapar Institute of Engineering and Technology–Virginia Tech (USA) Centre for Excellence in Material Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Science Advances	2022	23752548
5596	Bottom mesons $J^P = 0^- , 1^-$ and $0^+ , 1^+$ in heavy hadron chiral perturbation theory	Vishwakarma K.K., Upadhyay A.	Vishwakarma, K.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Upadhyay, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	European Physical Journal A	2022	14346001
5597	Binary Particle Swarm Optimization-Based Feature Selection for Predicting the Class of the Knee Angle from EMG Signals in Lower Limb Movements	Dhindsa I.S., Gupta R., Agarwal R.	Dhindsa, I.S., Electronics and Communication Engineering Department, Government Polytechnic, Ambala City, India; Gupta, R., Electrical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India; Agarwal, R., Electrical and Instrumentation Engineering Department, TIET, Punjab, Patiala, India	Neurophysiology	2022	902977
5598	Structural insights into the amino acid usage variations in the profilin gene family	Singh B., Ahanathapillai V., Sharma N.R., Jan S., Roy A., Upadhyay A.K.	Singh, B., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar, 144001, India; Ahanathapillai, V., Biomedical Engineering, School of Health Sciences, Birmingham City University, Seacole Building, 32 Westbourne Road, Birmingham, B15 3TN, United Kingdom; Sharma, N.R., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar, 144001, India; Jan, S., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar, 144001, India; Roy, A., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar, 144001, India, Center for Infection and Immunity, Columbia University, New York, 10032, United States; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Amino Acids	2022	9394451

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5599	Ruthenium(II)-Catalyzed C-H Alkenylation of 1,8-Naphthalimide with Cyclic Imide as a Weakly Coordinating Directing Group	Thakur R., Singh I., Paul K.	Thakur, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Asian Journal of Organic Chemistry	2022	21935807
5600	Comparative analysis of CycleGAN and AttentionGAN on face aging application	Sharma N., Sharma R., Jindal N.	Sharma, N., Department of Electronics and Communication Engineering, Punjabi University, Punjab, Patiala, India; Sharma, R., Department of Electronics and Communication Engineering, Punjabi University, Punjab, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
5601	Study the effect of band offsets on the performance of lead-free double perovskite solar cell	Singh N., Agarwal A., Agarwal M.	Singh, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Optical Materials	2022	9253467
5602	Comparative Study of Two Identical Industrial Digesters Using Radiotracer-Based Residence Time Distribution Measurement	Sheoran M., Chandra A., Gautam A.K., Arya R.K., Bhunia H., Pant H.J.	Sheoran, M., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Punjab, Patiala, 147004, India; Chandra, A., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Punjab, Patiala, 147004, India; Gautam, A.K., National Institute of Technology Hamirpur, Department of Chemical Engineering, Himachal Pradesh 177005, India; Arya, R.K., Dr. B. R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India; Bhunia, H., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Punjab, Patiala, 147004, India; Pant, H.J., Bhabha Atomic Research Centre, Isotope Production and Applications Division, Mumbai, 400085, India	Chemical Engineering and Technology	2022	9307516
5603	Development of magnesium oxide@carbon fiber paper composite film for the removal of methyl orange from aqueous phase	Ahmed S., Akram M.Y., Kumar A., Dhir A., Ali Z., Kansal S.K., Ratan J.K.	Ahmed, S., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, Department of Chemistry, The University of Lahore, Lahore, 55150, Pakistan; Akram, M.Y., Department of Chemistry, Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, Pakistan; Kumar, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Ali, Z., Department of Chemistry, The University of Lahore, Lahore, 55150, Pakistan; Kansal, S.K., Dr. S. S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Ratan, J.K., Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology, Punjab, Jalandhar, 144011, India	Nanotechnology for Environmental Engineering	2022	23656379
5604	The origin of graphite morphology in cast iron	Tewary U., Paul D., Mehtani H.K., Bhagavath S., Alankar A., Mohapatra G., Sahay S.S., Panwar A.S., Karagadde S., Samajdar I.	Tewary, U., John Deere Enterprise Technology and Engineering Center, Maharashtra, Pune, 411001, India, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India; Paul, D., Physical Electronics, 18725 Lake Drive East, Chanhassen, MN 55317, United States; Mehtani, H.K., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India; Bhagavath, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Alankar, A., Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, 400076, India; Mohapatra, G., John Deere Enterprise Technology and Engineering Center, Maharashtra, Pune, 411001, India; Sahay, S.S., John Deere Enterprise Technology and Engineering Center, Maharashtra, Pune, 411001, India; Panwar, A.S., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India; Karagadde, S., Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai, 400076, India; Samajdar, I., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India	Acta Materialia	2022	13596454
5605	Performance improvement of Deep Learning Models using image augmentation techniques	Nagaraju M., Chawla P., Kumar N.	Nagaraju, M., School of Computer Science and Engineering, Lovely Professional University, Punjab, Phagwara, India; Chawla, P., School of Computer Science and Engineering, Lovely Professional University, Punjab, Phagwara, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
5606	Parameterizing the Effects of Tumor Shape in Magnetic Nanoparticle ThermoTherapy Through a Computational Approach	Singh A., Kumar N.	Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Virginia Tech- Tiet Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Heat Transfer	2022	221481
5607	Influence of carbon, nitrogen sources, inducers, and substrates on lignocellulolytic enzyme activities of Morchella spongiosa	Reddy M.S., Kanwal H.K.	Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Kanwal, H.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Agriculture and Food Research	2022	26661543

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5608	Hydrodynamic Studies during Gas-Solid Conveying in a Vertically Upward Converging Riser Tube†	Ghosh T., Sarkar J., Sadhukhan A.K., Barman S.	Ghosh, T., Haldia Institute of Technology, Department of Chemical Engineering, West Bengal, Haldia, 721657, India; Sarkar, J., National Institute of Technology, Department of Chemical Engineering, West Bengal, Durgapur, 713209, India; Sadhukhan, A.K., National Institute of Technology, Department of Chemical Engineering, West Bengal, Durgapur, 713209, India; Barman, S., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala, 147004, India	Chemical Engineering and Technology	2022	9307516
5609	SLAP: A Secure and Lightweight Authentication Protocol for machine-to-machine communication in industry 4.0	Panda S., Mondal S., Kumar N.	Panda, S., Department of Computer Science & Engineering, Indian Institute of Technology Patna, Bihta, India; Mondal, S., Department of Computer Science & Engineering, Indian Institute of Technology Patna, Bihta, India; Kumar, N., Department of Computer Science & Engineering, Thapar University, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taiwan	Computers and Electrical Engineering	2022	457906
5610	Future mobility in India from a changing energy mix perspective	Jha A.P., Singh S.K.	Jha, A.P., LM Thapar School of Management, Dera Bassi, Mohali, Punjab, India; Singh, S.K., Business Environment (Economics) Area, Indian Institute of Management Lucknow, India	Economic Analysis and Policy	2022	3135926
5611	Exploring the ground state bulk and decay properties of the nuclei in superheavy island	Jain N., Kumar R., Bhuyan M.	Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	Nuclear Physics A	2022	3759474
5612	Air Flow around and through a Permeable Semi-Circular Cylinder‡	Kaur R., Sharma S., Chandra A.	Kaur, R., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, 147004, India; Sharma, S., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, 147004, India; Chandra, A., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Patiala, 147004, India	Chemical Engineering and Technology	2022	9307516
5613	Feasibility of Geo-Grid as confining Reinforcement in RC Columns: An Experimental Investigation	Waseem S.A., Roy A.B.D., Chidambaram R.S., Ghangas G.	Waseem, S.A., Department of Civil Engineering, National Institute of Technology Srinagar, Hazratbal, Srinagar, 190006, India; Roy, A.B.D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chidambaram, R.S., CSIR -Central Building Research Institute, Roorkee, 247667, India; Ghangas, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of The Institution of Engineers (India): Series A	2022	22502149
5614	Metal inserts for performance improvement in glass fiber-reinforced polymer nanocomposite joints under accelerated aging conditions	Singh K., Kumar M., Saini J.S.	Singh, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saini, J.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Polymer Composites	2022	2728397
5615	Denosing of ECG signals using weighted stationary wavelet total variation	Madan P., Singh V., Singh D.P., Diwakar M., Kishor A.	Madan, P., Computer Science and Engineering, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Singh, V., Computer Science and Engineering, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Singh, D.P., Computer Science and Engineering, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Diwakar, M., Computer Science and Engineering, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India; Kishor, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biomedical Signal Processing and Control	2022	17468094
5616	New high frequency memristorless and resistorless meminductor emulators using OTA and CDBA	Yadav N., Rai S.K., Pandey R.	Yadav, N., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, R., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2022	2562499
5617	Photoluminescence and structural properties of air-reduced rare-earth (Eu) doped calcium silicates derived using biomass wastes	Chhina M.K., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Biofuels, Bioproducts and Biorefining	2022	1932104X
5618	Novel epoxy-based glass fiber reinforced composites containing compatibilized para-aramid fibers and silanized nanoclay for improved impact strength	Shelly D., Nanda T., Mehta R.	Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, TIET-Virginia Tech Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, India	Polymer Composites	2022	2728397
5619	Lattice-valued tree pushdown automata: Pumping lemma and closure properties	Ghorani M., Garhwal S., Moghari S.	Ghorani, M., Faculty of Mathematical Sciences, Shahrood University of Technology, Shahrood, Iran; Garhwal, S., Department of CSED, Thapar Institute of Engineering and Technology, Patiala, India; Moghari, S., Faculty of Mathematical Sciences, Shahrood University of Technology, Shahrood, Iran	International Journal of Approximate Reasoning	2022	0888613X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5620	Fabrication and characterization of high-performance forward-osmosis membrane by introducing manganese oxide incited graphene quantum dots	Jain H., Kumar A., Rajput V.D., Minkina T., Verma A.K., Wadhwa S., Dhupper R., Chandra Garg M., Joshi H.	Jain, H., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125Uttar Pradesh 201313, India; Kumar, A., Department of Hydrology, Indian Institute of Technology RoorkeeUttarakhand 247667, India; Rajput, V.D., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Minkina, T., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Verma, A.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab 147005, India; Wadhwa, S., Department of Chemistry, School of Engineering, University of Petroleum & Energy Studies, Bidholi Campus, Dehradun, Uttarakhand 248007, India; Dhupper, R., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125Uttar Pradesh 201313, India; Chandra Garg, M., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Noida Sector-125Uttar Pradesh 201313, India; Joshi, H., Department of Hydrology, Indian Institute of Technology RoorkeeUttarakhand 247667, India	Journal of Environmental Management	2022	3014797
5621	SVNMPR: A new single-valued neutrosophic multiplicative preference relation and their application to decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, India	International Journal of Intelligent Systems	2022	8848173
5622	Efficient separable reversible data hiding algorithm for compressed 3D mesh models	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Biomedical Signal Processing and Control	2022	17468094
5623	Comparative study of pyrolysis and hydrothermal liquefaction of microalgal species: Analysis of product yields with reaction temperature	Xia C., Pathy A., Paramasivan B., Ganeshan P., Dhamodharan K., Juneja A., Kumar D., Brindhadevi K., Kim S.-H., Rajendran K.	Xia, C., Jiangsu Co-Innovation Center of Efficient Processing and Utilization of Forest Resources, International Innovation Center for Forest Chemicals and Materials, College of Materials Science and Engineering, Nanjing Forestry University, Nanjing, Jiangsu 210037, China; Pathy, A., Agricultural & Environmental Biotechnology Group, Department of Biotechnology & Medical Engineering, National Institute of Technology Rourkela769008, India; Paramasivan, B., Agricultural & Environmental Biotechnology Group, Department of Biotechnology & Medical Engineering, National Institute of Technology Rourkela769008, India; Ganeshan, P., Department of Environmental Science, SRM University-APAndhra Pradesh, India; Dhamodharan, K., School of Energy and Environment, Thapar Institute of Engineering and TechnologyPunjab, India; Juneja, A., Agricultural and Biological Engineering, University of Illinois at Urbana-Champaign, Urbana, IL 61801, United States; Kumar, D., Department of Chemical Engineering, State University of New York College of Environmental Science and Forestry, Syracuse, NY 13210, United States; Brindhadevi, K., Department of Pharmacology, Saveetha Dental College, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, India, Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Kim, S.-H., School of Civil and Environmental Engineering, Yonsei University, Seoul, 03722, South Korea; Rajendran, K., Department of Environmental Science, SRM University-APAndhra Pradesh, India	Fuel	2022	162361
5624	Performance Investigation of Closed-Loop Dual Phase Interleaved Buck-Boost Converter with Dragonfly Optimized Type-III Controller	Rana N., Sonar S., Banerjee S.	Rana, N., Department of Electrical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Tiet, Patiala, 147004, India; Banerjee, S., Department of Electrical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India	IEEE Transactions on Circuits and Systems II: Express Briefs	2022	15497747
5625	In vitro screening of Indian potato cultivars for the salt stress and associated physio-biochemical changes	Singh D., Kaur A., Kaur M., Kumar A.	Singh, D., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kaur, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kaur, M., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kumar, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147001, India	Biologia	2022	63088
5626	Yellow emissive carbon dots in ludo silica matrix with anticancer activity for enhanced imaging of developed sweat latent fingermarks	Kainth S., Sharma V., Bhagat M., Basu S.	Kainth, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, V., Institute of Forensic Science & Criminology, Panjab University, Chandigarh, 160014, India; Bhagat, M., School of Biotechnology, University of Jammu, Jammu, 180006-180006, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today—Chemistry	2022	24685194
5627	An ensembling model for early identification of at-risk students in higher education	Gupta A., Garg D., Kumar P.	Gupta, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Garg, D., Computer Science and Engineering Department, Bennett University, Uttar Pradesh, Greater Noida, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Computer Applications in Engineering Education	2022	10613773

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5628	Generalized framework for the design of adaptive fractional-order masks for image denoising	Gupta A., Kumar S.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Digital Signal Processing: A Review Journal	2022	10512004
5629	Performance analysis and reliability estimation of five-level rectifier	Barwar M.K., Sahu L.K., Bhatnagar P., Gupta K.K., Chander A.H.	Barwar, M.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Bhatnagar, P., Department of Electrical Engineering, IES College of Technology, Bhopal, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chander, A.H., Department of Electrical and Electronics Engineering, National Institute of Technology, Puducherry, India	International Journal of Circuit Theory and Applications	2022	989886
5630	Engineered biochar: A way forward to environmental remediation	Monga D., Shetti N.P., Basu S., Raghava Reddy K., Badawi M., Bonilla-Petriciolet A., Aminabhavi T.M.	Monga, D., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Raghava Reddy, K., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia; Badawi, M., Laboratoire de Physique et Chimie Théoriques, UMR CNRS 7019, Université de Lorraine, Nancy, France; Bonilla-Petriciolet, A., Chemical Engineering Department, Instituto Tecnológico de Aguascalientes, Aguascalientes, 20256, Mexico, Department of Chemistry, Karnatak University, Dharwad, 580 003, India; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580031, India, Department of Chemistry, Karnatak University, Dharwad, 580 003, India	Fuel	2022	162361
5631	A 1 μ s Locking Time Dual Loop ADPLL with Foreground Calibration-Based 6 ps Resolution Flash TDC in 180 nm CMOS	Sahani J.K., Singh A., Agarwal A.	Sahani, J.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., ECED, Thapar Institute of Engineering and Technology, Patiala, India	Circuits, Systems, and Signal Processing	2022	0278081X
5632	A hybrid deep neural network approach to estimate reference evapotranspiration using limited climate data	Sharma G., Singh A., Jain S.	Sharma, G., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2022	9410643
5633	Multistep traffic speed prediction: A deep learning based approach using latent space mapping considering spatio-temporal dependencies	Modi S., Bhattacharya J., Basak P.	Modi, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Bhattacharya, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Expert Systems with Applications	2022	9574174
5634	Performance evaluation of Non-Uniform circular antenna array using integrated harmony search with Differential Evolution based Naked Mole Rat algorithm	Singh H., Abouhawwash M., Mittal N., Salgotra R., Mahajan S., Kant Pandit A.	Singh, H., Department of Electronics & Communication Engineering, Chandigarh University, Mohali, Punjab, India; Abouhawwash, M., Department of Mathematics, Faculty of Science, Mansoura University, Mansoura, 35516, Egypt, Department of Computational Mathematics, Science, and Engineering (CMSE), Michigan State University, East Lansing, MI 48824, United States; Mittal, N., Department of Electronics & Communication Engineering, Chandigarh University, Mohali, Punjab, India; Salgotra, R., Department of Electronics & Communication Engineering, Thapar University, Patiala, Punjab, India; Mahajan, S., School of Electronics & Communication, Shri Mata Vaishno Devi University, Katra, J&K 182320, India; Kant Pandit, A., School of Electronics & Communication, Shri Mata Vaishno Devi University, Katra, J&K 182320, India	Expert Systems with Applications	2022	9574174
5635	Effect of Secondary Coating on Weldability, Joint Performance, and Electrode Life in Resistance Seam Welding of Galvannealed Interstitial Free Steel	Koley S., Akhtar M.T., Kumar N., Kundu A., Shome M.	Koley, S., Research and Development, Tata Steel, Jamshedpur, India; Akhtar, M.T., Metallurgical and Material Engineering Department, Jadavpur University, Kolkata, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Kundu, A., Metallurgical and Material Engineering Department, Jadavpur University, Kolkata, India; Shome, M., Research and Development, Tata Steel, Jamshedpur, India	Journal of Materials Engineering and Performance	2022	10599495
5636	Machine Learning-Based Predictive Modeling and Control of Lean Manufacturing in Automotive Parts Manufacturing Industry	Solke N.S., Shah P., Sekhar R., Singh T.P.	Solke, N.S., Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India; Shah, P., Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India; Sekhar, R., Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India; Singh, T.P., Operations Management and Information System, LM Thapar School of Management, Dera Bassi, India	Global Journal of Flexible Systems Management	2022	9722696
5637	Optimal sizing of different configuration of photovoltaic, fuel cell, and biomass-based hybrid energy system	Gupta J., Nijhawan P., Ganguli S.	Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Ganguli, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Environmental Science and Pollution Research	2022	9441344

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5638	An Effective Probabilistic Technique for DDoS Detection in OpenFlow Controller	Maity P., Saxena S., Srivastava S., Sahoo K.S., Pradhan A.K., Kumar N.	Maity, P., Tata Consultancy Services, Kolkata, India; Saxena, S., Galgotias College Of Engineering And Technology, Greater Noida, 201310, India; Srivastava, S., Department Of Computer Science And Engineering, Motilal Nehru National Institute Of Technology (MNNIT), Allahabad, 211004, India; Sahoo, K.S., Department Of Computer Science And Engineering, Srm University, AP, Amaravati, 522502, India; Pradhan, A.K., Department Of Computer Science And Engineering, Srm University, AP, Amaravati, 522502, India; Kumar, N., Department Of Cse, Thapar Institute Of Engineering And Technology, Patiala, 147004, India	IEEE Systems Journal	2022	19328184
5639	Enhancing the Quantum Communication Channel Using a Novel Quantum Binary Salt Blowfish Strategy	Kumari S.	Kumari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Wireless Personal Communications	2022	9296212
5640	Deep learning-based multivariate resource utilization prediction for hotspots and coldspots mitigation in green cloud data centers	Patel Y.S., Jaiswal R., Misra R.	Patel, Y.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jaiswal, R., Department of Computer and Information Science and Engineering, University of Florida, 432 Newell Dr, Gainesville, FL 32611, United States; Misra, R., Department of Computer Science and Engineering, Indian Institute of Technology Patna, Bihar, India	Journal of Supercomputing	2022	9208542
5641	Optimal controls for fractional stochastic differential systems driven by Rosenblatt process with impulses	Dhayal R., Francisco Gómez-Aguilar J., Fernández-Anaya G.	Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Francisco Gómez-Aguilar, J., CONACyT-Tecnológico Nacional de México/CENIDET, Interior Internado Palmira S/N, Cuernavaca, Mexico; Fernández-Anaya, G., Departamento de Física y Matemáticas, Universidad Iberoamericana, Mexico City, Mexico	Optimal Control Applications and Methods	2022	1432087
5642	Credit Scoring Models Using Ensemble Learning and Classification Approaches: A Comprehensive Survey	Tripathi D., Shukla A.K., Reddy B.R., Bopche G.S., Chandramohan D.	Tripathi, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Shukla, A.K., VIT University AP-Andhra Pradesh, Andhra Pradesh, Amaravati, 522237, India; Reddy, B.R., SRM University AP - Andhra Pradesh, Andhra Pradesh, Amaravati, 522502, India; Bopche, G.S., National Institute of Technology Tiruchirappalli, Tamilnadu, Tiruchirappalli, 620015, India; Chandramohan, D., Madanapalle Institute of Technology and Science, Andhra Pradesh, Madanapalle, 517325, India	Wireless Personal Communications	2022	9296212
5643	Single-phase grid-fed variable frequency high-efficiency induction motor drive for fan applications	Khan K., Shukla S., Singh B.	Khan, K., Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, India; Shukla, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Singh, B., Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, India	IET Energy Systems Integration	2022	25168401
5644	Existence of coincidence and common fixed points for a sequence of mappings in quasi partial metric spaces	Dhawan P., Gupta V., Kaur J.	Dhawan, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, V., Department of Mathematics, Maharishi Markandeshwar (Deemed to be University), Haryana, Mullana, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Analysis	2022	9713611
5645	High Slew-Rate and Very-Low Output Resistance Class-AB Flipped Voltage Follower Cell for Low-Voltage Low-Power Analog Circuits	Jindal C., Pandey R.	Jindal, C., Department of ECE, TIET, Punjab, Patiala, India; Pandey, R., Department of ECE, TIET, Punjab, Patiala, India	Wireless Personal Communications	2022	9296212
5646	An Intelligent Approach of Measurement and Uncertainty Estimation for Hidden Information Detection Using Brain Signals	Saini N., Bhardwaj S., Agarwal R.	Saini, N., Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, S., Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Mapan - Journal of Metrology Society of India	2022	9703950
5647	Synthesis of Non-Uniform Circular Antenna Array for Low Side Lobe Level and High Directivity Using Self-Adaptive Cuckoo Search Algorithm	Singh H., Mittal N., Singh U., Salgotra R.	Singh, H., Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, 140413, India; Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, 140413, India; Singh, U., Department of Electronics and Communication Engineering, Thapar University, Punjab, Patiala, 147004, India; Salgotra, R., School of Mechanical Engineering, Iby Aladar Fleishmann Faculty of Engineering, Tel-Aviv University, Tel Aviv-Yafo, Israel	Arabian Journal for Science and Engineering	2022	2193567X
5648	Optimization of engine operating variables on performance and emissions characteristics of biogas fuelled CI engine by the design of experiments: Taguchi approach	Mahla S.K., Goyal T., Goyal D., Sharma H., Dhir A., Goga G.	Mahla, S.K., Department of Mechanical Engineering, I. K. Gujral Punjab Technical University, Kapurthala, India; Goyal, T., Department of Mechanical Engineering, I. K. Gujral Punjab Technical University, Kapurthala, India; Goyal, D., Chitkara University Institute of Engineering & Technology, Chitkara University, Rajpura, India; Sharma, H., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, India; Goga, G., IES College of Technology, Bhopal, India	Environmental Progress and Sustainable Energy	2022	19447442

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5649	Space-Air-Ground Integrated Multi-Domain Network Resource Orchestration Based on Virtual Network Architecture: A DRL Method	Zhang P., Wang C., Kumar N., Liu L.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, 100876, China; Wang, C., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 100876, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Liu, L., State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China	IEEE Transactions on Intelligent Transportation Systems	2022	15249050
5650	Spatial and Temporal Variations of Air Pollutants in Urban Agglomeration Areas in Gujarat, India During 2004–2018	Gupta A., Dhir A.	Gupta, A., Department of Environmental Science and Engineering, Marwadi University, Rajkot, 360001, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Mapan - Journal of Metrology Society of India	2022	9703950
5651	Internet of Things Framework for Oxygen Saturation Monitoring in COVID-19 Environment	Saha R., Kumar G., Kumar N., Kim T.-H., Devgun T., Thomas R., Barnawi A.	Saha, R., School of Computer Science and Engineering, Lovely Professional University, Phagwara, 144411, India; Kumar, G., School of Computer Science and Engineering, Lovely Professional University, Phagwara, 144411, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Kim, T.-H., Konkuk University, Glocal Campus, Seoul, 27478, South Korea; Devgun, T., Nokia Solutions and Networks Private Ltd., Karnal, 132001, India; Thomas, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Barnawi, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia	IEEE Internet of Things Journal	2022	23274662
5652	Evaluation of small and medium-sized enterprises' sustainable development with hesitant fuzzy linguistic group decision-making method	Jin F., Zhang Y., Garg H., Liu J., Chen J.	Jin, F., School of Business, Anhui University, Hefei, 230601, China; Zhang, Y., School of Business, Anhui University, Hefei, 230601, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Liu, J., School of Business, Anhui University, Hefei, 230601, China; Chen, J., School of Business Administration, Southwest University of Finance and Economics of China, Chengdu, 611130, China	Applied Intelligence	2022	0924669X
5653	A Single Platform for Classification and Prediction using a Hybrid Bioinspired and Deep Neural Network (PSO-LSTM)	Sohane A., Agarwal R.	Sohane, A., Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India	Mapan - Journal of Metrology Society of India	2022	9703950
5654	An efficient intuitionistic fuzzy MULTIMOORA approach based on novel aggregation operators for the assessment of solid waste management techniques	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering, Technology, Deemed University, Punjab, Patiala, 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering, Technology, Deemed University, Punjab, Patiala, 147004, India	Applied Intelligence	2022	0924669X
5655	Enhancement of Shoot Organogenesis of Potato Cultivars 'Kufri Pukhraj' and 'Kufri Chipsona 1' by β -lactam Antibiotics	Guleria S., Kumar A.	Guleria, S., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, 147001, India; Kumar, A., TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, 147001, India	Potato Research	2022	143065
5656	Intelligent Security Performance Prediction for IoT-Enabled Healthcare Networks Using an Improved CNN	Xu L., Zhou X., Tao Y., Liu L., Yu X., Kumar N.	Xu, L., Department of Information Science and Technology, Qingdao University of Science and Technology, Qingdao, China; Zhou, X., Department of Information Science and Technology, Qingdao University of Science and Technology, Qingdao, China; Tao, Y., Department of Information Science and Technology, Qingdao University of Science and Technology, Qingdao, China; Liu, L., State Key Laboratory of Integrated Service Networks, Xidian University, Xi'an, China; Yu, X., Department of Information Science and Technology, Qingdao University of Science and Technology, Qingdao, China; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Industrial Informatics	2022	15513203
5657	Interaction Power Partitioned Maclaurin Symmetric Mean Operators under q-Rung Orthopair Uncertain Linguistic Information	Yang Z., Garg H.	Yang, Z., College of Economics and Management, Beijing University of Technology, Beijing, 100124, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	International Journal of Fuzzy Systems	2022	15622479
5658	Third Eye: An Intelligent and Secure Route Planning Scheme for Critical Services Provisions in Internet of Vehicles Environment	Sharma A., Kumar N.	Sharma, A., Institute of Computer Technology and Information Security, Southern Federal University, Rostov-on-Don, 344006, Russian Federation; Kumar, N., School of Computer Science Engineering, Thapar University, Patiala, 147004, India	IEEE Systems Journal	2022	19328184

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5659	PFLUA-DIoT: A Pairing Free Lightweight and Unlinkable User Access Control Scheme for Distributed IoT Environments	Chaudhry S.A., Farash M.S., Kumar N., Alsharif M.H.	Chaudhry, S.A., Department of Computer Engineering, Faculty of Engineering and Architecture, Istanbul Gelisim University, Istanbul, 34310, Turkey; Farash, M.S., Faculty of Mathematical Sciences and Computer, Kharazmi University, Tehran, 15719-14911, Iran; Kumar, N., Department of CSED, Thapar Institute of Engineering and Technology, Punjab147004, India; Alsharif, M.H., Department of Electrical Engineering, College of Electronics and Information Engineering, Sejong University, Seoul, 05006, South Korea	IEEE Systems Journal	2022	19328184
5660	Classification of leaves of medicinal plants using laws' texture features	Puri D., Kumar A., Virmani J., Kriti	Puri, D., Guru Nanak Dev Engineering College, Punjab, Ludhiana, 141006, India; Kumar, A., Guru Nanak Dev Engineering College, Punjab, Ludhiana, 141006, India; Virmani, J., CSIR-CSIO, Chandigarh, 160030, India; Kriti, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Information Technology (Singapore)	2022	25112104
5661	An efficient Hadoop-based brain tumor detection framework using big data analytic	Kaur Chahal P., Pandey S.	Kaur Chahal, P., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, India; Pandey, S., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Punjab, India	Software - Practice and Experience	2022	380644
5662	Data dimensionality reduction techniques for Industry 4.0: Research results, challenges, and future research directions	Chhikara P., Jain N., Tekchandani R., Kumar N.	Chhikara, P., B.E. Computer Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jain, N., B.E. Computer Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., B.E. Computer Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Software - Practice and Experience	2022	380644
5663	A comprehensive review on recent advancements in routing protocols for flying ad hoc networks	Malhotra A., Kaur S.	Malhotra, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Transactions on Emerging Telecommunications Technologies	2022	21615748
5664	Substrate induced freezing, melting and depinning transitions in two-dimensional liquid crystalline systems	Bharti, Deb D.	Bharti, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Deb, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Chemistry Chemical Physics	2022	14639076
5665	Effect of utilization of hydrogen-rich reformed biogas on the performance and emission characteristics of common rail diesel engine	Sharma H., Mahla S.K., Dhir A.	Sharma, H., Enviro-Energy Research Lab, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Hoshiarpur, 146001, India; Dhir, A., Enviro-Energy Research Lab, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Hydrogen Energy	2022	3603199
5666	An efficient approach for detecting anomalous events in real-time weather datasets	Arora S., Rani R., Saxena N.	Arora, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
5667	Framework of data privacy preservation and location obfuscation in vehicular cloud networks	Al-Balasmeh H., Singh M., Singh R.	Al-Balasmeh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
5668	The role of digital technologies to unleash a green recovery: pathways and pitfalls to achieve the European Green Deal	Sharma R., Lopes de Sousa Jabbour A.B., Jain V., Shishodia A.	Sharma, R., Operations and Supply Chain Management, Jaipuria Institute of Management Noida, Noida, India, Operations Management, National Institute of Industrial Engineering, Mumbai, India; Lopes de Sousa Jabbour, A.B., Metis Lab, EM Normandie Business School, Paris, France; Jain, V., Jaipuria Institute of Management Noida, Noida, India; Shishodia, A., LM Thapar School of Management, Thapar University, Patiala, India	Journal of Enterprise Information Management	2022	17410398
5669	Enabling technology for neurodevelopmental disorders: From diagnosis to rehabilitation	Wadhera T., Kakkar D.	Wadhera, T., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kakkar, D., Department of Electronics and Communication, National Institute of Technology, Jalandhar, Punjab, India	Enabling Technology for Neurodevelopmental Disorders: From Diagnosis to Rehabilitation	2022	
5670	Crustal properties of a neutron star within an effective relativistic mean-field model	Parmar V., Das H.C., Kumar A., Sharma M.K., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, H.C., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Kumar, A., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	Physical Review D	2022	24700010
5671	Transfer learning augmented enhanced memory network models for reference evapotranspiration estimation	Bedi J.	Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Knowledge-Based Systems	2022	9507051

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5672	Impact of compression ratio on combustion behavior of hydrogen enriched biogas-diesel operated CI engine	Rosha P., Kumar S., Senthil Kumar P., Kowthaman C.N., Kumar Mohapatra S., Dhir A.	Rosha, P., Department of Energy Science & Engineering, Indian Institute of Technology Bombay, Mumbai, 400076, India; Kumar, S., Department of Energy Science & Engineering, Indian Institute of Technology Bombay, Mumbai, 400076, India; Senthil Kumar, P., Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai, 603110, India; Kowthaman, C.N., Internal Combustion Engineering Division, Department of Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai, 25, India; Kumar Mohapatra, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala, India	Fuel	2022	162361
5673	An adaptive wavelet optimized finite difference B-spline polynomial chaos method for random partial differential equations	Kaur N., Goyal K.	Kaur, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Applied Mathematics and Computation	2022	963003
5674	Remediation of per- and polyfluoroalkyls (PFAS) via electrochemical methods	Sharma S., Shetti N.P., Basu S., Nadagouda M.N., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyannagar, Hubballi, Karnataka 580031, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Nadagouda, M.N., Department of Mechanical and Materials Engineering, Wright State University, Dayton, OH 45435, United States; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Vidyannagar, Hubballi, Karnataka 580031, India	Chemical Engineering Journal	2022	13858947
5675	Tele-operation of an industrial robot by an arm exoskeleton for peg-in-hole operation using immersive environments	Kansal S., Zubair M., Suthar B., Mukherjee S.	Kansal, S., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Punjab, Patiala, India; Zubair, M., Mechatronics Engineering Department, Chungnam National University, Daejeon, South Korea; Suthar, B., Mechatronics Engineering Department, Chungnam National University, Daejeon, South Korea; Mukherjee, S., Mechanical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India	Robotica	2022	2635747
5676	A new parameter estimation technique of three-diode PV cells	Goyal S., Nijhawan P., Srivastava Y., Ganguli S.	Goyal, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Srivastava, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Handbook of Intelligent Computing and Optimization for Sustainable Development	2022	
5677	Model reduction and controller scheme development of permanent magnet synchronous motor drives in the delta domain using a hybrid firefly technique	Ganguli S., Srivastava T., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Srivastava, T., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training and Research, Kolkata, West Bengal, India	Handbook of Intelligent Computing and Optimization for Sustainable Development	2022	
5678	Ontology alignment evaluation for online assessment of e-learners: a new e-learning management system	B.R R., Yenduri G., Vyas S., Binu D.	B.R, R., Resbee Info Technologies Private Limited, Thuckalay, India; Yenduri, G., Vignan's Foundation for Science, Technology and Research (Deemed to be University), Guntur, India; Vyas, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Binu, D., Resbee Info Technologies Private Limited, Thuckalay, India	Kybernetes	2022	0368492X
5679	Structural and photoluminescence properties of Eu3+-activated BaTiO3 phosphors	Priya R., Sharma P., Kumar D., Smriti, Pandey O.P.	Priya, R., Department of Physics, Chandigarh University, Mohali, Punjab 140413, India; Sharma, P., Functional Material Lad, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 141003, India; Kumar, D., School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi, Uttar Pradesh 221005, India; Smriti, Functional Material Lad, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 141003, India; Pandey, O.P., Functional Material Lad, School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 141003, India	Journal of Molecular Structure	2022	222860
5680	Different spheres of rehabilitation robotics: A brief survey over the past three decades	Hazra S., Kumar A., Srivastava Y., Ganguli S.	Hazra, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Srivastava, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India	Intelligent Systems for Rehabilitation Engineering	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5681	A new mathematical model for determining optimal workforce planning of pilots in an airline company	Akyurt İ.Z., Kuvvetli Y., Deveci M., Garg H., Yuzsever M.	Akyurt, İ.Z., Turkish Airlines Flight Academy, Aydin, Efeler, 09120, Turkey; Kuvvetli, Y., Department of Industrial Engineering, University of Cukurova, Adana, 01330, Turkey; Deveci, M., Department of Industrial Engineering, Turkish Naval Academy, National Defence University, Istanbul, 34940, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Yuzsever, M., Turkish Airlines Inc, Istanbul, Yesilkoy, 34149, Turkey	Complex and Intelligent Systems	2022	21994536
5682	De-Speckling Techniques for T1 Weighted Brain MRI Images - A Statistical Comparison	Jain A., Rajpal N., Mehta R.	Jain, A., University School of Information, Communication & Technology, Guru Gobind Singh Indraprastha University, New Delhi, 110078, India; Rajpal, N., University School of Information, Communication & Technology, Guru Gobind Singh Indraprastha University, New Delhi, 110078, India; Mehta, R., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Performability Engineering	2022	9731318
5683	Multi-objective optimization of TW-ECSM process parameters for machining of advanced non-conducting material	Rattan N., Mulik R.S., Kaushik A.J., Sharma S.K.	Rattan, N., Department of Mechanical Engineering, Women Institute of Technology, Dehradun, 248 007, India; Mulik, R.S., Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee, 247 667, India; Kaushik, A.J., Department of Mechanical Engineering, Netaji Subhas University of Technology, New Delhi, 110 078, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Indian Journal of Engineering and Materials Sciences	2022	9714588
5684	Experimental Study of Single- Slope Solar Still Coupled With Nanofluid-Based Volumetric Absorption Solar Collector	Singh J., Mittal M.K., Khullar V.	Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mittal, M.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Khullar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Solar Energy Engineering, Transactions of the ASME	2022	1996231
5685	Properties of hot finite nuclei and associated correlations with infinite nuclear matter	Parmar V., Sharma M.K., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400085, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Bhubaneswar, 751005, India	Physical Review C	2022	24699985
5686	Immunotherapy in Small Cell Lung Cancer Treatment: a Promising Headway for Future Perspective	Walia H.K., Sharma P., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, N., Department of Pulmonary Medicine, Post-Graduate Institute of Medical Education & Research, Chandigarh, 160012, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Current Treatment Options in Oncology	2022	15272729
5687	Adsorptive decontamination of doxycycline hydrochloride via Prosopis juliflora activated carbon: Parameter optimization and disposal study	Kaur G., Singh N., Rajor A.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Water Environment Research	2022	10614303
5688	A Security- and Privacy-Preserving Approach Based on Data Disturbance for Collaborative Edge Computing in Social IoT Systems	Zhang P., Wang Y., Kumar N., Jiang C., Shi G.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Wang, Y., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India; Jiang, C., Beijing National Research Center for Information Science and Technology, Beijing, China, Tsinghua University, Beijing, China; Shi, G., China Academy of Information and Communications Technology, Beijing, China	IEEE Transactions on Computational Social Systems	2022	2329924X
5689	Fermi arcs and pseudogap phase in a minimal microscopic model of d-wave superconductivity	Singh D.K., Kadge S., Bang Y., Majumdar P.	Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kadge, S., Harish-Chandra Research Institute, HBNI, Chhatnag Road, Jhansi, Allahabad, 211019, India; Bang, Y., Department of Physics, POSTECH, Pohang, Gyeongbuk 790-784, South Korea, Asia Pacific Center for Theoretical Physics, Gyeongbuk, Pohang, 790-784, South Korea; Majumdar, P., Harish-Chandra Research Institute, HBNI, Chhatnag Road, Jhansi, Allahabad, 211019, India	Physical Review B	2022	24699950
5690	Fungal Endophytes: A Potential Source of Antibacterial Compounds	Deshmukh S.K., Dufossé L., Chhipa H., Saxena S., Mahajan G.B., Gupta M.K.	Deshmukh, S.K., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute, Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi, Delhi, 110003, India, Agpharm Bioinnovations LLP, Incubatee Science and Technology Entrepreneurs Park, (STEP), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dufossé, L., Chimie et Biotechnologie des Produits Naturels (CHEMBIOPRO Lab) & ESIROI Agroalimentaire, Université de la Réunion, 15 Avenue René Cassin, Saint-Denis, 97744, France; Chhipa, H., College of Horticulture and Forestry, Agriculture University Kota, Rajasthan, Jhalawar, 322360, India; Saxena, S., Agpharm Bioinnovations LLP, Incubatee Science and Technology Entrepreneurs Park, (STEP), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mahajan, G.B., HiMedia Laboratories Pvt. Ltd., Maharashtra, Mumbai, 400086, India; Gupta, M.K., SGT College of Pharmacy, SGT University, Haryana, Gurugram, 122505, India	Journal of Fungi	2022	2309608X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5691	Inhibitory activities of grape bioactive compounds against enzymes linked with human diseases	Dwibedi V., Jain S., Singhal D., Mittal A., Rath S.K., Saxena S.	Dwibedi, V., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Jain, S., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Singhal, D., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Mittal, A., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Rath, S.K., Department of Pharmaceutical Chemistry, Danteswari College of Pharmacy, Chhattisgarh, Borpadar, Jagdalpur, 494221, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Applied Microbiology and Biotechnology	2022	1757598
5692	Landslide Susceptibility Mapping with Deep Learning Algorithms	Habumugisha J.M., Chen N., Rahman M., Islam M.M., Ahmad H., Elbeltagi A., Sharma G., Liza S.N., Dewan A.	Habumugisha, J.M., Key Laboratory for Mountain Hazards and Earth Surface Process, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences (CAS), Chengdu, 610041, China, University of Chinese Academy of Sciences, Beijing, 100049, China; Chen, N., Key Laboratory for Mountain Hazards and Earth Surface Process, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences (CAS), Chengdu, 610041, China, Academy of Plateau Science and Sustainability, Xining, 810016, China; Rahman, M., Department of Civil Engineering, International University of Business Agriculture and Technology (IUBAT), Dhaka, 1230, Bangladesh; Islam, M.M., Department of Civil Engineering, International University of Business Agriculture and Technology (IUBAT), Dhaka, 1230, Bangladesh; Ahmad, H., School of Civil and Resource Engineering, University of Science and Technology, Beijing, 100083, China; Elbeltagi, A., Agricultural Engineering Department, Faculty of Agriculture, Mansoura University, Mansoura, 35516, Egypt, College of Environmental and Resource Sciences, Zhejiang University, Hangzhou, 310058, China; Sharma, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Liza, S.N., Department of Civil Engineering, Dhaka University of Engineering & Technology (DUET), Gazipur, 1707, Bangladesh; Dewan, A., School of Earth and Planetary Sciences, Curtin University, Bentley, WA 6102, Australia	Sustainability (Switzerland)	2022	20711050
5693	Polymorphisms in the gene predict poor survival of North Indian lung cancer patients undergoing chemotherapy	Singh S., Singh N., Baranwal M., Sharma S.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, N., Department of Pulmonary Medicine, Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Biomarkers in Medicine	2022	17520363
5694	PANI-Based Hydrogen Sulfide Gas Sensors	Kumawat M., Thapliyal D., Verros G.D., Arya R.K., Barman S., Halder G., Shandilya P.	Kumawat, M., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Thapliyal, D., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Verros, G.D., Laboratory of Polymer and Colour Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki (AUTH), P.O. Box 454, Epanomi, 57500, Greece; Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Halder, G., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India; Shandilya, P., School of Advanced Chemical Sciences, Shoolini University, Solan, 173229, India	Coatings	2022	20796412
5695	Robust Sufficient Optimality Conditions And Duality In Semi-Infinite Multiobjective Programming With Data Uncertainty	Ahmad I., Kaur A., Sharma M.K.	Ahmad, I., Department of Mathematics, Interdisciplinary Research Center for Intelligent Secure Systems, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Kaur, A., P. G. Department of Mathematics, MCM DAV College for Women, Chandigarh, 36, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Acta Mathematica Universitatis Comenianae	2022	8629544
5696	Modelling of Surface Roughness and Change in Out-of-Roundness of Tool during Electrical Discharge Machining with Cermet Tool Tip Using Machine Learning	Walia A.S., Srivastava V., Verma K.	Walia, A.S., Department of Mechanical Engineering, Thapar Polytechnic College, Patiala, 147004, India; Srivastava, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, K., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Processes	2022	22279717
5697	An intelligent coverage optimization and link-stability routing for energy efficient wireless sensor network	Juneja S., Kaur K., Singh H.	Juneja, S., ECE Department, Amity University, Gurugram, India; Kaur, K., ECE Department, Amity University, Gurugram, India; Singh, H., ECE Department, Thapar University, Punjab, Patiala, India	Wireless Networks	2022	10220038
5698	Investigate the optical FBG sensor to monitor displacement and vibration in civil structure	Kaur G., Kaler R.S.	Kaur, G., Electronics and Communication Engineering Department, UIE, Chandigarh University, Punjab, Gharuan, Mohali, India; Kaler, R.S., Optical Fiber Communication Research laboratory (OFCR Lab), ECE Department, Thapar Institute of Engineering And Technology, Punjab, Patiala, 147004, India	Optical and Quantum Electronics	2022	3068919

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5699	Machine learning model for mapping of music mood and human emotion based on physiological signals	Garg A., Chaturvedi V., Kaur A.B., Varshney V., Parashar A.	Garg, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Chaturvedi, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A.B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Varshney, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2022	13807501
5700	Synthesis of Mo ₂ C/MoC/C nanocomposite for hydrogen evolution reaction	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Solid State Electrochemistry	2022	14328488
5701	An investigation of demolished floor and wall ceramic tile waste utilization in fired brick production	Dubale M., Goel G., Kalamdhad A., Singh L.B.	Dubale, M., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, Assam 781039, India; Goel, G., School of Energy and Environment, Thapar Institute of Engineering Technology, Patiala, 147004, India; Kalamdhad, A., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, Assam 781039, India; Singh, L.B., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, Assam 781039, India	Environmental Technology and Innovation	2022	23521864
5702	BUAKA-CS: Blockchain-enabled user authentication and key agreement scheme for crowdsourcing system	Wazid M., Das A.K., Hussain R., Kumar N., Roy S.	Wazid, M., Department of Computer Science and Engineering, Graphic Era Deemed to be University, Dehradun, 248002, India; Das, A.K., Center for Security, Theory and Algorithmic Research, International Institute of Information Technology, Hyderabad, 500 032, India; Hussain, R., Networks and Blockchain Lab, Innopolis University, Innopolis, 420500, Russian Federation; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147 004, India; Roy, S., Department of Computer Science and Engineering, Asansol Engineering College, Asansol, 713305, India	Journal of Systems Architecture	2022	13837621
5703	RSM-CCD optimized Prosopis juliflora activated carbon for the Adsorptive uptake of Ofloxacin and disposal studies	Kaur G., Singh N., Rajor A.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Technology and Innovation	2022	23521864
5704	Design and thermal analysis of nanofluid-based compound parabolic concentrator	Bhalla V., Khullar V., Parupudi R.V.	Bhalla, V., Department of Mechanical Engineering, College of Engineering Pune, Wellesley Rd, Shivaji Nagar Maharashtra 411005, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Parupudi, R.V., College of Engineering, Design and Physical Sciences, Brunel University London, Uxbridge UB8 3PH, United Kingdom	Renewable Energy	2022	9601481
5705	Bounding function for fast computation of transmission in single image dehazing	Raikwar S.C., Tapaswi S., Chakraborty S.	Raikwar, S.C., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Tapaswi, S., ABV-Indian Institute of Information Technology and Management, Madhya Pradesh, Gwalior, India; Chakraborty, S., Indian Institute of Information Technology, Uttar Pradesh, Lucknow, India	Multimedia Tools and Applications	2022	13807501
5706	Impedance spectroscopy and magnetic studies on Co ₂ Z ferrite sintered with SiO ₂ and Bi ₂ O ₃ additives	Singh A.P., Pandey O.P., Sharma P.	Singh, A.P., Magnetic Materials Laboratory, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Pandey, O.P., Magnetic Materials Laboratory, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Sharma, P., Magnetic Materials Laboratory, School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Materials Chemistry and Physics	2022	2540584
5707	Local radial basis functions and scale-3 Haar wavelets operational matrices based numerical algorithms for generalized regularized long wave model	Pandit S.	Pandit, S., Thapar Institute of Engineering and Technology, Patiala, 147001, India	Wave Motion	2022	1652125
5708	Potential of engineered nanostructured biopolymer based coatings for perishable fruits with Coronavirus safety perspectives	Ghosh M., Singh A.K.	Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Progress in Organic Coatings	2022	3009440
5709	Intra and inter-patient arrhythmia classification using feature fusion with novel feature set based on fractional-order and fibonacci series	Kaur A., Kumar S., Agarwal R., Agarwal A.	Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Kumar, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Agarwal, R., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India; Agarwal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147 004, India	Biomedical Signal Processing and Control	2022	17468094

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5710	QoS aware Mesh-based Multicast Routing Protocols in Edge Ad Hoc Networks: Concepts and Challenges	Singal G., Laxmi V., Gaur M.S., Rao D.V., Kushwaha R., Garg D., Kumar N.	Singal, G., CSE, MNIT Jaipur and CSE, Netaji Subhas University of Technology, Delhi, India; Laxmi, V., CSE, Malaviya National Institute of Technology, Rajasthan, Jaipur, India; Gaur, M.S., India Institute of Technology Jammu, Himachal Pradesh, Jammu, India; Rao, D.V., ISSA, Defence Research and Development Organisation Delhi, India; Kushwaha, R., CSE, Malaviya National Institute of Technology and CSE, Galgotia College of Engineering and Technology, Jaipur, India; Garg, D., Department of Computer Science Engineering, Bennett University, UP, Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, King Abdul Aziz University, Jeddah, Saudi Arabia	ACM Transactions on Internet Technology	2022	15335399
5711	Post-fabrication structural changes and enhanced photodegradation activity of semiconductors@zeolite composites towards noxious contaminants	Rathi A., Barman S., Basu S., Arya R.K.	Rathi, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, India; Arya, R.K., Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India	Chemosphere	2022	456535
5712	Effect of different types of substrate surface treatments on the graphene device performance	Singla R., Pathan D.	Singla, R., Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, India, Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Pathan, D., Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai, India	Surface and Interface Analysis	2022	1422421
5713	To Secure the Communication in Powerful Internet of Things Using Innovative Post-Quantum Cryptographic Method	Kumari S., Singh M., Singh R., Tewari H.	Kumari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Tewari, H., School of Computer Science and Statistics, Trinity College Dublin, Dublin, Ireland	Arabian Journal for Science and Engineering	2022	2193567X
5714	Highly efficient photo-degradation of cetirizine antihistamine with TiO ₂ -SiO ₂ photocatalyst under ultraviolet irradiation	Rani S., Garg A., Singh N.	Rani, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, A., Department of Chemical Engineering, National Institute of Technology, Hamirpur, 177005, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Chemical Reactor Engineering	2022	15426580
5715	Design and Analysis of Multiband Fractal Antenna for MIMO/Diversity Applications	Sharma N., Singh H.S., Khanna R.	Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India	Wireless Personal Communications	2022	9296212
5716	Modified neural network algorithm based robust design of AVR system using the Kharitonov theorem	Bhullar A.K., Kaur R., Sondhi S.	Bhullar, A.K., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kaur, R., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Sondhi, S., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	International Journal of Intelligent Systems	2022	8848173
5717	Cost-benefit comparison of fuel cell-based and battery-based renewable energy systems	Singla M.K., Nijhawan P., Oberoi A.S.	Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Energy Research	2022	0363907X
5718	Solar irradiated selective nitroaromatics reduction over plasmonic Ag-TiO ₂ : Deposition time dependent size growth and oxidation state of co-catalyst	Aulakh M.K., Pal B.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Chemical Engineering Journal	2022	13858947
5719	Compact Sub-6 GHz and mmWave 5G Wideband 2 × 1 MIMO Antenna with High Isolation Using Parasitically Placed Double Negative (DNG) Isolator	Sharma R., Khanna R., Geetanjali	Sharma, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed To Be University), 32 Bhadson Road, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed To Be University), 32 Bhadson Road, Punjab, Patiala, India; Geetanjali, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India	Wireless Personal Communications	2022	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5720	Algorithm for solving the decision-making problems based on correlation coefficients under cubic intuitionistic fuzzy information: a case study in watershed hydrological system	Garg H., Kaur G.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Kaur, G., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Complex and Intelligent Systems	2022	21994536
5721	Integrating Multihub Driven Attention Mechanism and Big Data Analytics for Virtual Representation of Visual Scenes	Yao Y., Gu B., Alazab M., Kumar N., Han Y.	Yao, Y., The School of Intelligent Systems Engineering, Sun Yat-sen University, Guangzhou, 510275, China; Gu, B., The School of Intelligent Systems Engineering, Sun Yat-sen University, Guangzhou, 510275, China; Alazab, M., The College of Engineering, IT, and Environment, Charles Darwin University, Casuarina, 0810, Australia; Kumar, N., The Thapar Institute of Engineering and Technology, Patiala, 147004, India, The Department of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan, The School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Han, Y., The School of Intelligent Systems Engineering, Sun Yat-sen University, Guangzhou, 510275, China, The Guangdong Provincial Key Laboratory of Fire Science and Technology, Guangzhou, 510006, China	IEEE Transactions on Industrial Informatics	2022	15513203
5722	Multiple forgeries identification in digital video based on correlation consistency between entropy coded frames	Shelke N.A., Kasana S.S.	Shelke, N.A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kasana, S.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Systems	2022	9424962
5723	Hesitant Fuzzy Soft Combined Compromise Solution Method for IoE Companies' Evaluation	Peng X., Garg H., Luo Z.	Peng, X., College of Computer, National University of Defense Technology, Changsha, 410073, China, School of Information Engineering, Shaoguan University, Shaoguan, 512005, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, 247667, India; Luo, Z., College of Computer, National University of Defense Technology, Changsha, 410073, China	International Journal of Fuzzy Systems	2022	15622479
5724	Extended Cumulative Residual Entropy for Emergency Group Decision-Making Under Probabilistic Hesitant Fuzzy Environment	Liu X.-D., Wu J., Zhang S.-T., Wang Z.-W., Garg H.	Liu, X.-D., Key Laboratory of Multidisciplinary Management and Control of Complex Systems of Anhui Higher Education Institutes, Anhui University of Technology, Ma'anshan, 243002, China; Wu, J., Center for Social Security Studies, Wuhan University, Wuhan, 430072, China; Zhang, S.-T., School of Mathematics and Physics, Anhui University of Technology, Ma'anshan, 243002, China; Wang, Z.-W., Center for Social Security Studies, Wuhan University, Wuhan, 430072, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	International Journal of Fuzzy Systems	2022	15622479
5725	Processing strategy for high strength Ni-based hybrid composite clad on SS 316L steel through microwave heating	Kaushal S., Singh S., Gupta D.	Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutes, PB, Ludhiana, India; Singh, S., Mechanical Engineering Department, The NorthCap University, HR, Gurugram, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, PB, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2022	9544054
5726	Intuitionistic fuzzy soft decision making method based on CoCoSo and CRITIC for CCN cache placement strategy selection	Peng X., Garg H.	Peng, X., School of Information Engineering, Shaoguan University, Shaoguan, 512005, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	Artificial Intelligence Review	2022	2692821
5727	Predicting COVID-19 statistics using machine learning regression model: Li-MuLi-Poly	Singh H., Bawa S.	Singh, H., Computer Science and Engineering Department, Jaypee University of Information Technology, Solan, Waknaghat, India; Bawa, S., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India	Multimedia Systems	2022	9424962
5728	Music mood and human emotion recognition based on physiological signals: a systematic review	Chaturvedi V., Kaur A.B., Varshney V., Garg A., Chhabra G.S., Kumar M.	Chaturvedi, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, A.B., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Varshney, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chhabra, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, India	Multimedia Systems	2022	9424962
5729	Position Control of PMLDC Motor Using SVR- and ANFIS-Based Controllers	Chopra V., Singh N.J., Kumar R., Sharma V.	Chopra, V., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, N.J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	National Academy Science Letters	2022	0250541X
5730	Influence of anisotropy on creep in functionally graded variable thickness rotating disc	Khanna K., Gupta V.K., Grover N.	Khanna, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Gupta, V.K., Mechanical Engineering Department, Punjabi University, Patiala, India; Grover, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Journal of Strain Analysis for Engineering Design	2022	3093247

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5731	Dielectric Properties of the Calcium Silicate Glass-Ceramics Prepared from Agro-Food Wastes	Sharma G., Singh K.	Sharma, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Silicon	2022	1876990X
5732	On comparing the performances of MLP and RBFN on sales forecasting problem	Tiwari R., Kumar R., Gera R., Srivastava S.	Tiwari, R., Faculty of Management Studies, Manav Rachna University, Faridabad, India; Kumar, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gera, R., Faculty of Management Studies, Manav Rachna International Institute of research and studies, Faridabad, India; Srivastava, S., Division of Instrumentation and Control, Netaji Subhas University of Technology (formerly Netaji Subhas Institute of Technology), New Delhi, 110078, India	International Journal of Information Technology (Singapore)	2022	25112104
5733	Human-in-the-Loop-Aided Privacy-Preserving Scheme for Smart Healthcare	Zhou T., Shen J., He D., Vijayakumar P., Kumar N.	Zhou, T., School of Computer and Software, Nanjing University of Information Science and Technology, Nanjing, China; Shen, J., Jiangsu Engineering Center of Network Monitoring, Nanjing University of Information Science and Technology, Nanjing, China; He, D., School of Cyber Science and Engineering, Wuhan University, Wuhan, China; Vijayakumar, P., Department of Computer Science and Engineering, University College of Engineering Tindivanam, Tindivanam, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala (Deemed University), Patiala, India	IEEE Transactions on Emerging Topics in Computational Intelligence	2022	2471285X
5734	Impact of Mergers and Acquisitions on Accounting-based Performance of Acquiring Firms in India	Aggarwal P., Garg S.	Aggarwal, P., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Institute of Management Technology, Uttar Pradesh, Ghaziabad, India; Garg, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Global Business Review	2022	9721509
5735	Versatile Graphitized Carbon Nanofibers in Energy Applications	Sharma S., Basu S., Shetti N.P., Mondal K., Sharma A., Aminabhavi T.M.	Sharma, S., School of Chemistry and Biochemistry, Affiliate Faculty–TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty–TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Hubballi, 580031, India; Mondal, K., Materials Science and Engineering Department, Idaho National Laboratory, Idaho Falls, ID 83415, United States, Department of Civil and Environmental Engineering, Idaho State University, Pocatello, ID 83209, United States; Sharma, A., Department of Chemical Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Hubballi, 580031, India	ACS Sustainable Chemistry and Engineering	2022	21680485
5736	Traffic noise prediction using machine learning and monte carlo data augmentation: A case study on the Patiala city in India	Singh D., Kaler P., Lyall I., Singh A., Pannu H.S.	Singh, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaler, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Lyall, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Physics: Conference Series	2022	17426588
5737	Dynamic Task Placement for Deadline-Aware IoT Applications in Federated Fog Networks	Sarkar I., Adhikari M., Kumar N., Kumar S.	Sarkar, I., Department of Information Technology, National Institute of Technology Raipur, Raipur, India; Adhikari, M., Mobile and Cloud Lab, Institute of Computer Science, University of Tartu, Tartu, Estonia; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Kumar, S., Department of Information Technology, National Institute of Technology Raipur, Raipur, India	IEEE Internet of Things Journal	2022	23274662
5738	SrO effect on the structure, phase separation and crystallization kinetics of CaO–SiO ₂ –B ₂ O ₃ –Na ₂ O–ZrO ₂ glasses	Chhina M.K., Mittal R., Kaur S., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Mittal, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Kaur, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Journal of Non-Crystalline Solids	2022	223093
5739	Rare earth added barium alumino borosilicate glass-ceramics as sealants in solid oxide fuel cells	Salinigopal M.S., Gopakumar N., Anjana P.S., Pandey O.P.	Salinigopal, M.S., Department of Physics, All Saints' College, University of Kerala, Trivandrum, Kerala 695007, India, Post Graduate Department of Physics, Mahatma Gandhi College, Research Centre, University of Kerala, Trivandrum, Kerala 695004, India; Gopakumar, N., Post Graduate Department of Physics, Mahatma Gandhi College, Research Centre, University of Kerala, Trivandrum, Kerala 695004, India; Anjana, P.S., Department of Physics, All Saints' College, University of Kerala, Trivandrum, Kerala 695007, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India	Journal of Non-Crystalline Solids	2022	223093
5740	Development of under-utilized kadam (Neolamarkia cadamba) powder using foam mat drying	Osama K., Younis K., Qadri O.S., Parveen S., Siddiqui M.H.	Osama, K., Department of Bioengineering, Integral University, Lucknow, India; Younis, K., Department of Bioengineering, Integral University, Lucknow, India; Qadri, O.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Parveen, S., Department of Bioengineering, Integral University, Lucknow, India; Siddiqui, M.H., Department of Bioengineering, Integral University, Lucknow, India	LWT	2022	236438

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5741	IoT Network Traffic Classification Using Machine Learning Algorithms: An Experimental Analysis	Kumar R., Swarnkar M., Singal G., Kumar N.	Kumar, R., Department of Computer Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, 177005, India; Swarnkar, M., Department of Computer Science and Engineering, Indian Institute of Technology (BHU) Varanasi, Varanasi, 221005, India; Singal, G., Department of Computer Science and Engineering, Netaji Subhas University of Technology, New Delhi, 110078, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	IEEE Internet of Things Journal	2022	23274662
5742	Effect of porosity on active vibration control of smart structure using porous functionally graded piezoelectric material	Sharma A.	Sharma, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Composite Structures	2022	2638223
5743	Hydrogen production technologies - Membrane based separation, storage and challenges	Singla S., Shetti N.P., Basu S., Mondal K., Aminabhavi T.M.	Singla, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580 031, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mondal, K., Materials Science and Engineering Department, Idaho National Laboratory, Idaho Falls, ID 83415, United States, Department of Civil & Environmental Engineering, Idaho State University, Pocatello, ID 83209, United States; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Vidyanagar, Hubballi, Karnataka 580 031, India	Journal of Environmental Management	2022	3014797
5744	Influence of capping agents on morphology and photocatalytic response of ZnS nanostructures towards crystal violet degradation under UV and sunlight	Aulakh M.K., Dua J., Pal B.	Aulakh, M.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Dua, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Separation and Purification Technology	2022	13835866
5745	Performance Evaluation of AODV and DSR Routing Protocols for Flying Ad hoc Network Using Highway Mobility Model	Maakar S.K., Khurana M., Chakraborty C., Sinwar D., Srivastava D.	Maakar, S.K., BRCM College of Engineering and Technology, Bahal, Haryana, Bhiwani, India; Khurana, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chakraborty, C., Birla Institute of Technology, Jharkhand, Mesra, India; Sinwar, D., Manipal University Jaipur, VPO. Dehmi Kalan, Rajasthan, Jaipur, India; Srivastava, D., Apex Institute of Technology, Chandigarh University, Punjab, India	Journal of Circuits, Systems and Computers	2022	2181266
5746	RAMP-IoD: A Robust Authenticated Key Management Protocol for the Internet of Drones	Tanveer M., Khan A.U., Kumar N., Hassan M.M.	Tanveer, M., Faculty of Computer Science and Engineering, GIK Institute of Engineering Sciences and Technology, Topi, Pakistan; Khan, A.U., Faculty of Computer Science and Engineering, GIK Institute of Engineering Sciences and Technology, Topi, Pakistan; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, India, Department of Computer Science and Information Engineering, Asia University, Taichung City, 413, Taiwan, Department of Electrical and Computer Engineering, King Abdul Aziz University, Jeddah, 80200, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India; Hassan, M.M., Research Chair of Smart Technologies, Information Systems Department, College of Computer and Information Sciences, King Saud University, Riyadh, Saudi Arabia	IEEE Internet of Things Journal	2022	23274662
5747	Internet of things (IoT) enabled software defined networking (SDN) for load balancing, edge, cloud computing in healthcare	Babbar H., Rani S., Kumar N.	Babbar, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Rani, S., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	IoT-enabled Smart Healthcare Systems, Services and Applications	2022	
5748	IoT-enabled smart healthcare systems, services and applications	Rani S., Rajagopal M., Kumar N., Shah S.H.A.	Rani, S., Chitkara University, Punjab, India; Rajagopal, M., VIT Bhopal University, Bhopal, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Shah, S.H.A., JMA Wireless, United States	IoT-enabled Smart Healthcare Systems, Services and Applications	2022	
5749	Surfactant-derived water-soluble carbon dots for quantitative determination of fluoride: Via a turn-off-on strategy	Kainth S., Goel N., Basu S., Maity B.	Kainth, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goel, N., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	New Journal of Chemistry	2022	11440546

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5750	Rumor, misinformation among web: A contemporary review of rumor detection techniques during different web waves	Rani N., Das P., Bhardwaj A.K.	Rani, N., Department of Engineering and Technology, Chitkara University, Chandigarh, India; Das, P., Department of Computer Applications, Chitkara University/Himachal Pradesh, India; Bhardwaj, A.K., L M Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2022	15320626
5751	Properties of ternary blended cement containing ground granulated blast furnace slag and ground coal bottom ash	Cheah C.B., Liew J.J., Khaw Le Ping K., Siddique R., Tangchirapat W.	Cheah, C.B., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Liew, J.J., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Khaw Le Ping, K., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tangchirapat, W., Construction Innovations and Future Infrastructures Research Center (CIFIR), Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Thailand	Construction and Building Materials	2022	9500618
5752	Fabrication of chitosan-alginate nanospheres for controlled release of cartap hydrochloride	Kaur I., Agnihotri S., Goyal D.	Kaur, I., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Kundli, Haryana, Sonapat, 131028, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, India	Nanotechnology	2022	9574484
5753	ADAPTIVE PROTECTION OF MICROGRID THROUGH ABRUPT CHANGE ANALYSIS AND FRACTIONAL FOURIER TRANSFORM	Singh M., Singh K.	Singh, M., Electrical Engineering Department, Chandigarh University, Mohali, India; Singh, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology University, Patiala, India	IET Conference Proceedings	2022	27324494
5754	Team AINLPM @ MuP in SDP 2021: Scientific Document Summarization by End-to-End Extractive and Abstractive Approach	Kumar S., Kohli G.S., Shinde K., Ekbal A.	Kumar, S., Indian Institute of Technology, Patna, India; Kohli, G.S., Thapar Institute of Engineering and Technology, India; Shinde, K., Indian Institute of Technology, Patna, India; Ekbal, A., Indian Institute of Technology, Patna, India	Proceedings - International Conference on Computational Linguistics, COLING	2022	29512093
5755	Secrecy Maximization for Pico Edge Users in 5G Backhaul HWNs: A Quantum RL Approach	Sharma H., Pulkit, Sharma G., Kumar N.	Sharma, H., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India; Pulkit, MAQ Software, Hyderabad, India; Sharma, G., Bennett University, School of Computer Science Engineering and Technology, Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2022	21531684
5756	Segmentation for Lumbar Spinal Stenosis Using Convolutional Neural Networks	Shukla A., Bhardwaj S., Singh M.	Shukla, A., Engineering in Electronics Instrumentation and Control, Electrical Instrumentation and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bhardwaj, S., Electrical Instrumentation and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, M., Electrical Instrumentation and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Procedia Computer Science	2022	18770509
5757	Preface	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	q-Rung Orthopair Fuzzy Sets: Theory and Applications	2022	
5758	Application of Blockchain Technology in Sustainable Energy Systems	Kaur N., Bhullar S., Seth N.	Kaur, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhullar, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Seth, N., Baba Hira Singh Bhattal Institute of Engineering and Technology, Punjab, Lehragaga, India	Blockchain Technology in Corporate Governance: Transforming Business and Industries	2022	
5759	Scanning Electron Microscopy (SEM): Learning to Generate and Interpret the Topographical Aspects of Materials	Jaidka S., Sharma R., Kaur S., Singh D.P.	Jaidka, S., Energy Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, R., Energy Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, S., Department of Physics, GSSDGS Khalsa College, Punjab, Patiala, India; Singh, D.P., Energy Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Microscopic Techniques for the Non-Expert	2022	
5760	q-Rung Orthopair Fuzzy Sets: Theory and Applications	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	q-Rung Orthopair Fuzzy Sets: Theory and Applications	2022	
5761	Supplier Selection Process Based on CODAS Method Using q-Rung Orthopair Fuzzy Information	Ramírez-Ochoa D.-D., Pérez-Domínguez L., Martínez-Gómez E.A., Torres-Argüelles V., Garg H., Sansabas-Villapando V.	Ramírez-Ochoa, D.-D., Department of Industrial Engineering and Manufacturing, Doctorate in Technology, Autonomous University of Ciudad Juarez, Chihuahua, Ciudad Juarez, Mexico; Pérez-Domínguez, L., Department of Industrial Engineering and Manufacturing, Doctorate in Technology, Autonomous University of Ciudad Juarez, Chihuahua, Ciudad Juarez, Mexico; Martínez-Gómez, E.A., Department of Industrial Engineering and Manufacturing, Doctorate in Technology, Autonomous University of Ciudad Juarez, Chihuahua, Ciudad Juarez, Mexico; Torres-Argüelles, V., Department of Industrial Engineering and Manufacturing, Doctorate in Technology, Autonomous University of Ciudad Juarez, Chihuahua, Ciudad Juarez, Mexico; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Sansabas-Villapando, V., Department of Industrial Engineering and Manufacturing, Doctorate in Technology, Autonomous University of Ciudad Juarez, Chihuahua, Ciudad Juarez, Mexico	q-Rung Orthopair Fuzzy Sets: Theory and Applications	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5762	Performance Optimization in Energy Harvesting Cognitive Radio Networks a Shift Towards Metaheuristics	Bakshi S., Sharma S., Khanna R.	Bakshi, S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Sharma, S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	Proceedings of 2022 6th Asian Conference on Artificial Intelligence Technology, ACAIT 2022	2022	
5763	Trajectory tracking of 4-DOF robot manipulator: a bond graph approach	Singh R., Lamba M.S., Bera T.K.	Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Lamba, M.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Mechatronics and Automation	2022	20451059
5764	Study of Development of Various Morphological Phases and Its Effects on the Thermal Coated Specimen—A Review	Dangi S., Walia R.S., Suri N.M., Chaudhary S.	Dangi, S., Production and Industrial Engineering Department, PEC, Chandigarh, India; Walia, R.S., Production and Industrial Engineering Department, PEC, Chandigarh, India; Suri, N.M., Production and Industrial Engineering Department, PEC, Chandigarh, India; Chaudhary, S., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Lecture Notes on Multidisciplinary Industrial Engineering	2022	25225022
5765	Technohumanism, Global Crises, and Education: Toward a Posthuman Pedagogy	Roy K.	Roy, K., Humanities Department, Thapar Institute of Engineering and Technology, Patiala, India	Technohumanism, Global Crises, and Education: toward a Posthuman Pedagogy	2022	
5766	Prevention of Three-Dimensional (3D) Printed Food from Spoilage	Singh H.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Food Printing: 3D Printing in Food Industry	2022	
5767	Fundamentals of Food Printing	Singh H., Bhattacharjee S.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhattacharjee, S., Department of Physics and Nanotechnology, SRM Institute of Science and Technology (Deemed to be University), Tamil Nadu, Kattankulathur, India	Food Printing: 3D Printing in Food Industry	2022	
5768	Microbial Polyhydroxyalkanoates (PHAs): A Brief Overview of Their Features, Synthesis, and Agro-Industrial Applications	Addagada L., Pathak P., Shahid M.K., Rout P.R.	Addagada, L., National Environmental Engineering Research Institute (NEERI), Council of Scientific & Industrial Research (CSIR), Nagpur, India; Pathak, P., School of Environmental Science, SRM University, Amaravati, India; Shahid, M.K., Research Institute of Environment and Biosystem, Chungnam National University, Daejeon, South Korea; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Advances in Agricultural and Industrial Microbiology: Volume 1: Microbial Diversity and Application in Agroindustry	2022	
5769	Food Printing: Unfolding a New Paradigm for Designer and User	Kour R., Singh H.	Kour, R., Department of Philosophy, Panjab University, Chandigarh, India; Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Food Printing: 3D Printing in Food Industry	2022	
5770	Performance Evaluation of Cooperative Medium Access protocols for Vehicular Networks	Verma P.	Verma, P., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	2022 IEEE Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2022	2022	
5771	Nanostrategies Against Rising Antimicrobial Resistance (AMR)-Metallic Nanoparticles as Nanoweapon	Sharma P., Goyal D., Chudasama B.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India	Emerging Modalities in Mitigation of Antimicrobial Resistance	2022	
5772	Preface	Singh S., Kaur G., Islam M.T., Kaler R.S.	Singh, S., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kaur, G., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, India; Islam, M.T., Electrical Electronic and Systems Engineering, Department of Electrical, Electronic and Systems Engineering, Universiti Kebangsaan Malaysia, Bangi, Malaysia; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Broadband Connectivity in 5G and Beyond: Next Generation Networks	2022	
5773	Emerging Modalities in Mitigation of Antimicrobial Resistance	Akhtar N., Singh Prerna K.S., Prerna P., Goyal D.	Akhtar, N., Department of Animal Biosciences, University of Guelph, Guelph, ON, Canada; Singh Prerna, K.S., Institute for Microbiology, Leibniz University, Hannover, Germany; Prerna, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Emerging Modalities in Mitigation of Antimicrobial Resistance	2022	
5774	Broadband Connectivity in 5G and Beyond: Next Generation Networks	Singh S., Kaur G., Islam M.T., Kaler R.S.	Singh, S., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kaur, G., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, India; Islam, M.T., Electrical Electronic and Systems Engineering, Department of Electrical, Electronic and Systems Engineering, Universiti Kebangsaan Malaysia, Bangi, Malaysia; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Broadband Connectivity in 5G and Beyond: Next Generation Networks	2022	
5775	The Use of Antimicrobials in Agriculture and Socioeconomic Considerations in Global Perspective	Rajput H., Dhiman S., Changotra R.	Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Dhiman, S., Department of Agriculture, DAV College of Education, Hoshiarpur, India; Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Emerging Modalities in Mitigation of Antimicrobial Resistance	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5776	Application of Klebsiella pneumoniae in Treatment and Electricity Generation from Piggery Solid Wastes	Kodesia A., Chatterjee A.K., Sharma V., Ghosh M.	Kodesia, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chatterjee, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, School of Life Sciences, Jaipur National University, SIIAS campus, Jaipur, India; Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Handbook of Solid Waste Management: Sustainability through Circular Economy	2022	
5777	Simultaneous Fermentative Production of Lipase and Biopolymeric flocculants from Produce (Vegetable) Wastes	Ghosh M., Sharma S., Sharma V.	Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, School of Life Sciences, Jaipur National University, SIIAS campus, Jaipur, India	Handbook of Solid Waste Management: Sustainability through Circular Economy	2022	
5778	Antibiotics and Resistance in Environment	Changotra R., Chalotra A., Rajput H.	Changotra, R., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chalotra, A., Bhojia Dental College and Hospital, Himachal Pradesh, Baddi, India; Rajput, H., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Emerging Modalities in Mitigation of Antimicrobial Resistance	2022	
5779	Mehar Approach for Solving Shortest Path Problems with Interval-Valued Triangular Fuzzy Arc weights	Bhatia T.K., Kumar A., Sharma M.K., Appadoo S.S.	Bhatia, T.K., Thapar Institute of Engineering and Technology, India; Kumar, A., Thapar Institute of Engineering and Technology, India; Sharma, M.K., Thapar Institute of Engineering and Technology, India; Appadoo, S.S., University of Manitoba, Canada	International Journal of Fuzzy System Applications	2022	2156177X
5780	Melting Phase Equilibria from 4 to 7 GPa in the System CaO-MgO-Al ₂ O ₃ -SiO ₂ -CO ₂ , the Persistence of the "Ledge" in Carbonated Basalt with Excess Silica, and the Most Likely Limits on the Depths of Termination of Carbon Cycle at Subduction Zones	Keshav S., Hammouda T., Gudfinnsson G.H.	Keshav, S., Bayerisches Geoinstitut, Universität Bayreuth, Bayreuth, Germany, Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Hammouda, T., Université Clermont Auvergne, Centre Nationale de la Recherche Scientifique, Institut de Recherche Développement, Observatoire de Physique du Globe, Laboratoire Magmas et Volcans, Clermont-Ferrand, F-63000, France; Gudfinnsson, G.H., Bayerisches Geoinstitut, Universität Bayreuth, Bayreuth, Germany, NordVulk, Institute of Earth Sciences, University of Iceland, Reykjavik, Iceland	Journal of Petrology	2022	223530
5781	Comparative Analysis of Machine Learning and Ensemble Learning Classifiers for Alzheimer's Disease Detection	Goyal P., Rani R., Singh K.	Goyal, P., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Singh, K., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	Proceedings of 2022 IEEE International Conference on Current Development in Engineering and Technology, CCET 2022	2022	
5782	Real-Time Classification of Cardiac Events in Arrhythmia Disease	Arora S., Rani R.	Arora, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	Proceedings of 2022 IEEE International Conference on Current Development in Engineering and Technology, CCET 2022	2022	
5783	An Automated Liver Disease Detection System using Machine Learning and Smart Contract	Kaur J., Rani R., Kalra N.	Kaur, J., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Kalra, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	Proceedings of 2022 IEEE International Conference on Current Development in Engineering and Technology, CCET 2022	2022	
5784	Commercial Market of Food Printing Technologies	Singh H., Kour R.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kour, R., Department of Philosophy, Panjab University, Chandigarh, India	Food Printing: 3D Printing in Food Industry	2022	
5785	Internet of Vehicles Taxonomy and Evaluation: Architectures, Protocols, and Issues	Ajmani P., Singh N., Verma P.	Ajmani, P., Gautam Buddha University, Phd Research Scholar, Noida, India; Singh, N., Gautam Buddha University, Uttar Pradesh, Noida, India; Verma, P., Thapar Institute of Engg & Tech, Patiala, India	Proceedings of 5th International Conference on Contemporary Computing and Informatics, IC3I 2022	2022	
5786	Transformations in the Ways of Improving from Agriculture 1.0 to 4.0	Aggarwal S., Verma A.	Aggarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Verma, A., University Centre for Research and Development, Chandigarh University, Mohali, Punjab, Gharuan, 140413, India	Proceedings of 5th International Conference on Contemporary Computing and Informatics, IC3I 2022	2022	
5787	Soil textures and nutrients estimation using remote sensing data in north india-Punjab region	Dhiman G., Bhattacharya J., Roy S.	Dhiman, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhattacharya, J., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Roy, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Procedia Computer Science	2022	18770509
5788	Primary and Secondary Recycling of Thermosetting Polymers: A Review	Kumar S., Singh R.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Institute of Technical Teachers Training & Research, Chandigarh, India	Encyclopedia of Materials: Plastics and Polymers	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5789	Dual/Multi Printing of Thermosetting Polymers	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5790	On Wear Properties of 3D Printed Hybrid Blended PLA Composite	Kumar S.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5791	Primary and Secondary Recycling of Thermoplastics: A Review	Kumar S., Singh R.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Institute of Technical Teachers Training and Research, Chandigarh, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5792	Design and fabrication of polymer nanocomposite sensors	Damiri F., Gaiji H., Muhamad I.I., Lazim N.A.M., Kaur D., Berrada M.	Damiri, F., University Hassan II of Casablanca, Faculty of Sciences Ben M'Sick, Department of Chemistry, Laboratory of Biomolecules and Organic Synthesis (BioSynthO), Casablanca, Morocco; Gaiji, H., National Institute of Research and Physicochemical Analysis (INRAP), Biotechnopole of Sidi Thabet, Ariana, Tunisia; Muhamad, I.I., Food and Biomaterial Eng. RG, Bioprocess and Polymer Engineering Department, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Johor Bahru, Malaysia, IIN-UTM Cardioengineering Centre, Institute of Human Centred Engineering, Universiti Teknologi Malaysia, Johor, Johor Bahru, Malaysia; Lazim, N.A.M., Food and Biomaterial Engineering RG, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Johor Bahru, Malaysia; Kaur, D., Functional Materials Lab, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Berrada, M., University Hassan II of Casablanca, Faculty of Sciences Ben M'Sick, Department of Chemistry, Laboratory of Biomolecules and Organic Synthesis (BioSynthO), Casablanca, Morocco	Polymeric Nanocomposite Materials for Sensor Applications	2022	
5793	On Wear of Multi Material 3D Printed PLA Composites	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5794	Possible Ways for CO2 Reduction into Hydrocarbons	Singla S., Devi P., Basu S.	Singla, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, P., Central Scientific Instruments Organization, Chandigarh, 160030, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Green Energy Harvesting: Materials for Hydrogen Generation and Carbon Dioxide Reduction	2022	
5795	On Process Capability of Multi Stage Primary and Secondary Recycled PLA Composite Matrix for 3D Printing Applications	Kumar S.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5796	Thermosetting Polymers for 4D Printing	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5797	Multi Material Printing of Recycled Thermoplastics and Thermosetting Polymers	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5798	Engineering Reliability and Risk Assessment	Garg H., Ram M.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India; Ram, M., Graphic Era Deemed to be University, Uttarakhand, Dehradun, India, Peter the Great St. Petersburg Polytechnic University, Saint Petersburg, Russian Federation	Engineering Reliability and Risk Assessment	2022	
5799	On Dynamic Mechanical Analysis of Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO3-Gr Composite	Sharma R., Singh R., Batish A., Ranjan N.	Sharma, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., National Institute of Technical Teachers Training & Research Chandigarh, Chandigarh, India; Batish, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ranjan, N., Chandigarh University, Punjab, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5800	Thermoplastic Polymer Composites	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5801	Dual/Multi Printing of Thermoplastic Polymers	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5802	On Multi-Factor Optimization for Hybrid Feed-Stock Filament of PLA Using TOPSIS	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, CT University, Ludhiana, India, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5803	Correlation Matrix for Mechanical, Rheological and Morphological Properties of PP-CaCO3 Composites	Kumar S., Singh R., Batish A., Singh T.P.	Kumar, S., Department of Mechanical Engineering, CT University, Punjab, Ludhiana, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5804	CLEAR: An Efficient Traffic Sign Recognition Technique for Cyber-Physical Transportation Systems	Rai M., Khosla B., Dhawan Y., Kharotia H., Kumar N., Bandi A.	Rai, M., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, India Northwest Missouri State University, USA; Khosla, B., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, India Northwest Missouri State University, USA; Dhawan, Y., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, India Northwest Missouri State University, USA; Kharotia, H., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, India Northwest Missouri State University, USA; Kumar, N., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, India Northwest Missouri State University, USA; Bandi, A., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Patiala, India Northwest Missouri State University, USA	Proceedings - 2022 IEEE/ACM 15th International Conference on Utility and Cloud Computing, UCC 2022	2022	
5805	Controller free hand interaction in Virtual Reality	Garg G., Shivani S.	Garg, G., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Shivani, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	Proceedings - 2022 OITS International Conference on Information Technology, OCIT 2022	2022	
5806	Clostridium difficile infection and gut microbiota: From fundamentals to microbiota-centered strategies	Dey P., Moludi J.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Moludi, J., School of Nutritional Sciences and Food Technology, Kermanshah University of Medical Sciences, Kermanshah, Iran	Viral, Parasitic, Bacterial, and Fungal Infections: Antimicrobial, Host Defense, and Therapeutic Strategies	2022	
5807	Three-dimensional printing of prostheses: an analysis of case studies	Shekhar H., Singh H.	Shekhar, H., Department of Mechanical Engineering, Tezpur University, Assam, Napaam, Tezpur, India; Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	3D Printing in Podiatric Medicine	2022	
5808	3D printed accessories for podiatric medicine	Singh H., Kaur S.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, S., CSIR-Central Scientific Instruments Organisation, Chandigarh, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, India	3D Printing in Podiatric Medicine	2022	
5809	Social and commercial trends of 3D printed orthoprosthesis	Kour R., Singh H.	Kour, R., Department of Philosophy, Panjab University, Chandigarh, India; Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	3D Printing in Podiatric Medicine	2022	
5810	Endophytes: Potential agents for sustainable agriculture practices	Chhipa H., Deshmukh S.	Chhipa, H., College of Horticulture and Forestry, Agriculture University Kota, Rajasthan, Jhalawar, India; Deshmukh, S., TERI-Deakin Nano Biotechnology Centre, The Energy and Resources Institute (TERI), New Delhi, India, Agpharm Bioinnovations LLP, Science & Tech Entrepreneurs Park, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Endophytic Association: What, Why and How	2022	
5811	Engagement measurement of a learner during e-learning: A deep learning architecture	Tanwar S., Kumar V., Sharma S.	Tanwar, S., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Kumar, V., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Sharma, S., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India	PDGC 2022 - 2022 7th International Conference on Parallel, Distributed and Grid Computing	2022	
5812	Generalized agent for solving higher board states of tic tac toe using Reinforcement Learning	Kalra B.	Kalra, B., Thapar Institute of Engineering and Technology, Department of Computer Engineering, Patiala, India	PDGC 2022 - 2022 7th International Conference on Parallel, Distributed and Grid Computing	2022	
5813	Drone Assisted Deep Learning based Wildfire Detection System	Gupta V., Roy S., Jaiswal V., Bhardwaj K., Rana P.S.	Gupta, V., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, 147004, India; Roy, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, 147004, India; Jaiswal, V., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, 147004, India; Bhardwaj, K., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, 147004, India; Rana, P.S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, 147004, India	PDGC 2022 - 2022 7th International Conference on Parallel, Distributed and Grid Computing	2022	
5814	A Blockchain Enabled Predictive, Analytical Model for Fraud Detection in Healthcare Data	Kaur J., Rani R., Kalra N.	Kaur, J., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Kalra, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	PDGC 2022 - 2022 7th International Conference on Parallel, Distributed and Grid Computing	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5815	Physiological Parameter Analysis for Type-1 Diabetes and ML Approach for Insulin Prediction	Roy S., Bhateja G., Gulati G., Saxena S.	Roy, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Bhateja, G., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Gulati, G., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Saxena, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	PDGC 2022 - 2022 7th International Conference on Parallel, Distributed and Grid Computing	2022	
5816	Array Arrangement of Octagonal Chipless RFID Tag for Read Range Enhancement	Kaur M., Agarwal M., Khanna R.	Kaur, M., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Agarwal, M., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	2022 IEEE Microwaves, Antennas, and Propagation Conference, MAPCON 2022	2022	
5817	Lean Enhancement by Application of Total Interpretive Structural Modelling	Solke N.S., Singh T.P.	Solke, N.S., Symbiosis Institute of Technology, India; Singh, T.P., Thapar Institute of Engineering and Technology, India	International Journal of Social Ecology and Sustainable Development	2022	19478402
5818	Low-Cost Single-Sensor Current Sharing Scheme for Two-Phase DC-DC Boost Converter	Mazumder S., Tolani S., Joshi S.	Mazumder, S., Indian Institute of Science, Department of Electrical Engineering, Bengaluru, India; Tolani, S., Sardar Vallabhbhai National Institute of Technology, Department of Electrical Engineering, Surat, India; Joshi, S., Electrical & Inst., Dept. Tiet, Patiala, India	2022 IEEE 10th Power India International Conference, PIICON 2022	2022	
5819	Optimum Adaptive Relaying Using Fault Current Quadrature (Q) Component	Singh M., Ganguli S., Gill A.	Singh, M., Chandigarh University, Electrical Engineering Department, Mohali, India; Ganguli, S., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Patiala, India; Gill, A., Chandigarh University, Electrical Engineering Department, Mohali, India	2022 IEEE 10th Power India International Conference, PIICON 2022	2022	
5820	CyRRA: Cyberattack Resilient Robotic Arm	Saha S., Saxena S., Bhatia S.	Saha, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Saxena, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Bhatia, S., Sacred Heart University, School of Computer Science and Engineering, Fairfield, CT, United States	INDICON 2022 - 2022 IEEE 19th India Council International Conference	2022	
5821	Drone Assisted Forest Structural Classification of Kejimkujik National Park using Deep Learning	Roy S., Bose S., Harper K., Jaiswal V., Bansal M.	Roy, S., Thapar Institute of Engineering and Technology, Electronics and Instrumentation Engineering, Patiala, India; Bose, S., University of Calcutta, Computer Science and Engineering, Kolkata, India; Harper, K., Saint Mary's University, Biology, Halifax, Canada; Jaiswal, V., Thapar Institute of Engineering and Technology, Electronics and Instrumentation Engineering, Patiala, India; Bansal, M., Thapar Institute of Engineering and Technology, Electronics and Instrumentation Engineering, Patiala, India	3rd IEEE 2022 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2022	2022	
5822	Signal assessment using ml for evaluation of wsn framework in greenhouse monitoring	Kochhar A., Kumar N., Arora U.	Kochhar, A., Electronics and Communication Engineering, University Institute of Engineering and Technology, Panjab University, Chandigarh, India, Punjab Remote Sensing Centre, Punjab, India; Kumar, N., Electronics and Communication Engineering, University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Arora, U., Electronics and Communication Engineering, Thapar Institute of Engineering Technology, Thapar University, Patiala, India	International Journal of Sensors, Wireless Communications and Control	2022	22103279
5823	MAGNETORHEOLOGICAL FINE FINISHING OF TUNGSTEN CARBIDE MOLD MATERIAL	Thomas A., Singh A.K., Arora K.	Thomas, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)	2022	
5824	GTA-IDS: GAME THEORETIC APPROACH TO ENHANCE IDS DETECTION IN CLOUD ENVIRONMENT	Gill K.S., Saxena S., Sharma A.	Gill, K.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Saxena, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, A., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, India	Computing and Informatics	2022	13359150
5825	Low-cost removal of basic red 9 using cow dung ash	Arya R.K., Meena G., Thapliyal D., Barman S., Halder G., Shandilya P.	Arya, R.K., Dr. B.R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India; Meena, G., Jaypee University of Engineering and Technology, Madhya Pradesh, Guna, 473226, India, National Fertilizers Ltd., Punjab, Bathinda, 151003, India; Thapliyal, D., Dr. B.R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India; Barman, S., Thapar Institute of Engineering and Technology, Department of Chemical Engineering, Punjab, Patiala, 147004, India; Halder, G., National Institute of Technology Durgapur, Department of Chemical Engineering, M. G. Avenue, West Bengal, Durgapur, 713209, India; Shandilya, P., Shoolini University, School of Advanced Chemical Sciences, HP, Solan, 173229, India	Chemical and Process Engineering - Inzynieria Chemiczna i Procesowa	2022	2086425
5826	Enzyme-assisted turmeric oil extraction from turmeric rhizomes	Chandra A., Rekhi H., Dharmender, Gautam A.K., Arya R.K.	Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rekhi, H., Department of Chemistry, Khalsa College, Punjab, Patiala, 147001, India; Dharmender, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gautam, A.K., Department of Chemical Engineering, National Institute of Technology, Hamirpur, 177005, India; Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, 144011, India	Chemical and Process Engineering - Inzynieria Chemiczna i Procesowa	2022	2086425
5827	A COMPREHENSIVE ASSESSMENT OF GEARBOX TOOTH FAULTS BASED ON DYNAMIC MODELLING AND MACHINE LEARNING	Kumar V., Mukherjee S., Kumar S., Sarangi S.	Kumar, V., Indian Institute of Technology, Bihar, Patna, India; Mukherjee, S., Indian Institute of Technology, Bihar, Patna, India, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kumar, S., Indian Institute of Technology, Bihar, Patna, India, Sikkim Manipal Institute of Technology, Sikkim, India; Sarangi, S., Indian Institute of Technology, Bihar, Patna, India	ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE)	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5828	Structural and optical properties of agro-food wastes derived glasses synthesized in two different crucibles	Punj S., Singh J., Singh K.	Punj, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, J., Department of Physics, Gulzar Group of Institutions, Ludhiana, 141001, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
5829	A Novel Feature Selection Based Text Classification Using Multi-layer ELM	Roul R.K., Satyanath G.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Satyanath, G., Department of Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, PA, United States	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2022	3029743
5830	Preface	Ganesan G., Kumar G., Subramaniam U., Verma A.K., Farhaoui Y., Cheng H.S., Meribout M., Yeh J.-H., Litoriya R.	Ganesan, G., Advanced Computing Research Society, Tamilnadu, Chennai, India; Kumar, G., University of Padova, Italy, Department of Computer Science Engineering, Lovely Professional University, India; Subramaniam, U., Prince Sultan University, Riyadh, Saudi Arabia; Verma, A.K., Thapar Institute of Engineering and Technology, India; Farhaoui, Y., University of Moulay Ismail, Morocco; Cheng, H.S., Multimedia University, Malaysia; Meribout, M., Khalifa University, United Arab Emirates; Yeh, J.-H., Boise State University, Idaho, United States; Litoriya, R., Jaypee Institute of Engineering & Technology, India	CEUR Workshop Proceedings	2022	16130073
5831	Adaptive Content Forwarding Mechanism for Platoon based Vehicular Named Data Networks	Kaushik A., Garg D., Nehra A., Bali R.S., Baza M., Srivastava G.	Kaushik, A., Chandigarh University, Computer Science & Engineering Department, India; Garg, D., Chandigarh University, Computer Science & Engineering Department, India; Nehra, A., Thapar Institute of Engineering and Technology, Computer Science & Engineering Department, India; Bali, R.S., Chandigarh University, Computer Science & Engineering Department, India; Baza, M., College of Charleston, Department of ComputerSC 29414, United States; Srivastava, G., Brandon University, Department of Math and Computer Science, Canada	Proceedings - 2022 IEEE International Conference on Big Data, Big Data 2022	2022	
5832	A Survey of Dynamic Bandwidth Allocation to Enhance Quality of Service in Internet of Things	Shekhar, Bhandari G., Tyagi S.	Shekhar, The ICFAI University, ICFAI Tech School, Dehardun, India; Bhandari, G., The ICFAI University, ICFAI Tech School, Dehardun, India; Tyagi, S., Thapar Institute of Engineering & Technology, ECED, Patiala, India	Proceedings - 2022 IEEE Silchar Subsection Conference, SILCON 2022	2022	
5833	An Adaptive Version of Differential Evolution for Solving CEC2014, CEC 2017 and CEC 2022 Test Suites	Salgotra R., Singh S., Singh U., Kundu K., Gandomi A.H.	Salgotra, R., Thapar Institute of Engineering & Technology, Faculty of Engineering, Dept. of Electronics and Communication Engineering Iby and Aladar Fleishman, Patiala, India; Singh, S., Thapar Institute of Engineering & Technology, Faculty of Engineering, Dept. of Electronics and Communication Engineering Iby and Aladar Fleishman, Patiala, India; Singh, U., Thapar Institute of Engineering & Technology, Faculty of Engineering, Dept. of Electronics and Communication Engineering Iby and Aladar Fleishman, Patiala, India; Kundu, K., G.L.Bajaj Institute of Technology, Electronics and Communication Dept., Greater Noida, India; Gandomi, A.H., University of Technology, Faculty of Engg. and IT, Sydney, Australia	Proceedings of the 2022 IEEE Symposium Series on Computational Intelligence, SSCI 2022	2022	
5834	Parametric approach for a class of fractional variational programs involving support functions	Kailey N., Sonali, Sharma V.	Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sonali, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Mathematics in Operational Research	2022	17575850
5835	DEPOSITION OF Al ₂ O ₃ /Cr ₂ O ₃ CERAMICS HVOF SPRAYED COATINGS FOR PROTECTION AGAINST SILT EROSION	Kumar R., Kumar S., Mudgal D.	Kumar, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jharkhand, Jamshedpur, 831014, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Surface Review and Letters	2022	0218625X
5836	Application of GA Technique to Optimize the Performance of NTP Server	Thorat P.P., Achanta V., Kumar G., Agrawal R.	Thorat, P.P., CSIR-NPL, Time & Frequency Department, Delhi, India; Achanta, V., CSIR-National Physical Laboratory, Delhi, India; Kumar, G., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Punjab, Patiala, India; Agrawal, R., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Punjab, Patiala, India	2022 6th International Conference on Computing, Communication, Control and Automation, ICCUBEA 2022	2022	
5837	Analyzing the Effects of Cyber Threats on NTP IST Dissemination Service and Measures for their Effective Mitigation	Kumar G., Achanta V., Agrawal R., Thorat P.P.	Kumar, G., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Punjab, Patiala, India; Achanta, V., CSIR-National Physical Laboratory, Delhi, India; Agrawal, R., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Punjab, Patiala, India; Thorat, P.P., CSIR-NPL, Time & Frequency Department, Delhi, India	2022 6th International Conference on Computing, Communication, Control and Automation, ICCUBEA 2022	2022	
5838	Security Reassessing in UAV-Assisted Cyber-Physical Systems Based on Federated Learning	Consul P., Budhiraja I., Chaudhary R., Kumar N.	Consul, P., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Chaudhary, R., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science Engineering, Punjab, Patiala, India	Proceedings - IEEE Military Communications Conference MILCOM	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5839	Music Stream Analysis for the Prediction of Song Popularity using Machine Learning and Deep Learning Approach	Arora S., Rani R., Saxena N.	Arora, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Saxena, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	ICAN 2022 - 3rd International Conference on Computing, Analytics and Networks - Proceedings	2022	
5840	Modeling Evapotranspiration in IoT based WSN for Irrigation Scheduling: An Optimized DL Approach	Sharma G., Pulkit, Sharma H., Jain S., Kumar N.	Sharma, G., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India; Pulkit, MAQ Software, Hyderabad, India; Sharma, H., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India; Jain, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India	2022 IEEE Global Communications Conference, GLOBECOM 2022 - Proceedings	2022	
5841	Outage Performance Analysis of RIS-aided D2D Networks for Healthcare Application	Ni Y., Liu Y., Zhao H., Cao H., Kumar N., Nehra P.	Ni, Y., Nanjing University of Posts and Telecommunications, Nanjing, 210003, China, Jiangsu Second Normal University, Nanjing, 210013, China; Liu, Y., Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Zhao, H., Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Cao, H., The Hong Kong Polytechnic University, Hong Kong; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nehra, P., Chandigarh Group of Colleges Landran India, India	2022 IEEE Global Communications Conference, GLOBECOM 2022 - Proceedings	2022	
5842	Comparative Analysis of Machine Learning and Ensemble Learning Classifiers for Parkinson's Disease Detection	Goyal P., Rani R., Singh K.	Goyal, P., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Singh, K., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India	ICAN 2022 - 3rd International Conference on Computing, Analytics and Networks - Proceedings	2022	
5843	Stabilizing the Optical Beam in Higher-order Nonlocal Nonlinear Media	Mishra M., Kajala S.K., Sharma M., Singh B., Jana S.	Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Kajala, S.K., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Singh, B., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Optics InfoBase Conference Papers	2022	21622701
5844	Soliton trapping with external potential	Saini A., Jana S.	Saini, A., School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, India; Jana, S., School of Physics and Material Science, Thapar Institute of Engineering & Technology, Patiala, India	Optics InfoBase Conference Papers	2022	21622701
5845	Ultra-Short Pulse Evolution in Highly Nonlinear Medium at Communication Regime	Mishra M., Kumar A., Singh B., Jana S., Sharma M.	Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Kumar, A., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Singh, B., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India	Optics InfoBase Conference Papers	2022	21622701
5846	Optimizing the Optical Frequency Comb	Kaur G., Mishra M., Pradhan R., Jana S.	Kaur, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj, Sikar, 332311, India; Pradhan, R., Department of Physics, Midnapore College, West Bengal, Midnapore, 721101, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Optics InfoBase Conference Papers	2022	21622701
5847	Interaction Dynamics of Accessible Solitons in Highly Nonlocal Cubic-Quintic Nonlinear Media	Jana S., Sharma M., Singh B., Kajala S.K., Mishra M.	Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Singh, B., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Kajala, S.K., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India; Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Raj., Sikar, 332311, India	Optics InfoBase Conference Papers	2022	21622701
5848	A Robust Approach for Real Time Human Detection on Railway Track	Kapoor A., Mehta R., Gupta S.	Kapoor, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India; Mehta, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India; Gupta, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India	2022 IEEE 6th Conference on Information and Communication Technology, ICT 2022	2022	
5849	A Comparison of Local Descriptor-based Data Augmentation Techniques for Glaucoma Detection using Retinal Fundus Images	Maheshwari S., Kumar T.S.	Maheshwari, S., Electronics & Communication Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kumar, T.S., eMedia Lab, KU Leuven, Belgium	2022 10th E-Health and Bioengineering Conference, EHB 2022	2022	
5850	Relative Numerical Context Affects Temporal Processing	Shukla A., Bapi R.S.	Shukla, A., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Cognitive Science Lab, International Institute of Information Technology, Hyderabad, 500032, India; Bapi, R.S., Cognitive Science Lab, International Institute of Information Technology, Hyderabad, 500032, India	Proceedings of the 44th Annual Meeting of the Cognitive Science Society: Cognitive Diversity, CogSci 2022	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5851	Monkey Pox Detection using Deep Learning	Syed S.F., Singh A., Rakhra M., Singh D., Aggarwal S.	Syed, S.F., Lovely Professional University, Department of Computer Science and Engineering, Phagwara, India; Singh, A., Lovely Professional University, Department of Computer Science and Engineering, Phagwara, India; Rakhra, M., Lovely Professional University, Department of Computer Science and Engineering, Phagwara, India; Singh, D., Lovely Professional University, Department of Computer Science and Engineering, Phagwara, India; Aggarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, India	Proceedings of International Conference on Technological Advancements in Computational Sciences, ICTACS 2022	2022	
5852	BinWare: Intelligent Waste Segregation Using Machine Learning, Image Processing and IoT	Aggarwal S., Verma A.K., Kashyap K., Dhawan N., Kalra S., Bansal M.	Aggarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Verma, A.K., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Kashyap, K., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Dhawan, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Kalra, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Bansal, M., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India	Proceedings of International Conference on Technological Advancements in Computational Sciences, ICTACS 2022	2022	
5853	Autism Spectrum Disorder Detection using the Deep Learning Approaches	Ramanjot, Singh D., Rakhra M., Aggarwal S.	Ramanjot, School of Computer Science and Engineering, Lovely Professional University, Punjab, Phagwara, India; Singh, D., School of Computer Science and Engineering, Lovely Professional University, Punjab, Phagwara, India; Rakhra, M., School of Computer Science and Engineering, Lovely Professional University, Punjab, Phagwara, India; Aggarwal, S., Thapar Institute of Engineering and Technology, Department Computer Science and Engineering, Punjab, India	Proceedings of International Conference on Technological Advancements in Computational Sciences, ICTACS 2022	2022	
5854	Hybrid Framework for Sentiment Analysis Using ConvBiLSTM and BERT	Bhola A., Athithan S., Singh S., Mittal S., Sharma Y.K., Dhatteerwal J.S.	Bhola, A., Koneru Lakshmaiah Education Foundation, Department of Computer Science and Engineering, Andhra Pradesh, Vaddeswaram, India; Athithan, S., Koneru Lakshmaiah Education Foundation, Department of Computer Science and Engineering, Andhra Pradesh, Vaddeswaram, India; Singh, S., Thapar Institute of Engineering and Technology, Department of CSE, Patiala, India; Mittal, S., Rd Engineering College, Department of Computer Science and Engineering, Ghaziabad, India; Sharma, Y.K., Koneru Lakshmaiah Education Foundation, Department of Computer Science and Engineering, Andhra Pradesh, Vaddeswaram, India; Dhatteerwal, J.S., Koneru Lakshmaiah Education Foundation, Department of Artificial Intelligence & Data Science, Andhra Pradesh, Vaddeswaram, India	Proceedings of International Conference on Technological Advancements in Computational Sciences, ICTACS 2022	2022	
5855	Disease Detection in Cactus (Beles) via the Use of Machine Learning: A Proposed Technique	Kaur S., Rakhra M., Singh D., Singh A., Aggarwal S.	Kaur, S., Lovely Professional University, Department of Computer Science and Engineering, Phagwara, India; Rakhra, M., Lovely Professional University, Department of Computer Science and Engineering, Phagwara, India; Singh, D., Lovely Professional University, Computer Science and Engineering, Phagwara, India; Singh, A., Lovely Professional University, Computer Science and Engineering, Phagwara, India; Aggarwal, S., Thapar Institute of Engineering and Technology, Department Computer Science and Engineering, Punjab, India	Proceedings of International Conference on Technological Advancements in Computational Sciences, ICTACS 2022	2022	
5856	Extractive summarization in Hindi using BERT-based ensemble model	Dendukuri A., Goyal S., Arora J., Pradeep A.	Dendukuri, A., Manipal Academy of Higher Education, Hyderabad, India; Goyal, S., Manipal Academy of Higher Education, Prayagraj, India; Arora, J., Thapar Institute of Engineering and Technology, Patiala, India; Pradeep, A., Manipal Academy of Higher Education, Cochin, India	2022 13th International Conference on Computing Communication and Networking Technologies, ICCCNT 2022	2022	
5857	Frontiers in Artificial Intelligence and Applications	Yadav J., Shukla S., Sharma K., Soni N., Agarwal S., Pathak P.C.	Yadav, J., Babasaheb Bhimrao Ambedkar University, Department of Information Technology, Lucknow, India; Shukla, S., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Sharma, K., Mangalmai Institute of Management and Technology, Department of Computer Application, Greater Noida, India; Soni, N., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Agarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Lucknow, India; Pathak, P.C., Babu Banarasi das University, Department of Computer Application, Lucknow, India	Proceedings - 2022 3rd International Conference on Computation, Automation and Knowledge Management, ICCAKM 2022	2022	
5858	Virtual and Augmented Reality Infused in AEC Ir 4.0	Ansar S.A., Arya S., Agarwal S., Jaiswal K., Srivastava R., Khan R.A.	Ansar, S.A., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Arya, S., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Agarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Lucknow, India; Jaiswal, K., University of Lucknow, Department of Computer Science, Lucknow, India; Srivastava, R., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Khan, R.A., Babasaheb Bhimrao Ambedkar University, Department of Information Technology, Lucknow, India	Proceedings - 2022 3rd International Conference on Computation, Automation and Knowledge Management, ICCAKM 2022	2022	
5859	Approximation by a Family of Summation-Integral Type Operators Preserving Linear Functions	Grewal B.K., Goyal M.	Grewal, B.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, M., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Filomat	2022	3545180
5860	Well-Posedness and Ulam's Stability of Functional Equations in F-Metric Space with an Application	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Filomat	2022	3545180

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5861	An Algorithm for Bi-Objective Integer Linear Programming Problem	Prerna, Sharma V.	Prerna, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, V., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Filomat	2022	3545180
5862	Fracture analysis of CNT reinforced FG structures under thermo-mechanical loading using XIGA framework	Yadav A., Bhardwaj G., Godara R.K.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mechanics of Advanced Materials and Structures	2022	15376494
5863	Nanoscale synthesis, structural elucidation, DFT, and biological activity of amide appended transition metal(II) macrocyclic complexes in drug delivery system	Patyal M., Kaur K., Sharma P., Gupta N., Malik A.K., Paul K.	Patyal, M., Department of Chemistry, Punjabi University, Punjab, Patiala, India; Kaur, K., Department of Chemistry, Punjabi University, Punjab, Patiala, India; Sharma, P., Department of Chemistry, Punjabi University, Punjab, Patiala, India; Gupta, N., Department of Chemistry, Punjabi University, Punjab, Patiala, India; Malik, A.K., Department of Chemistry, Punjabi University, Punjab, Patiala, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Coordination Chemistry	2022	958972
5864	Calibrating Lenders' Concerns and Performance Issues in Road Infrastructure Projects under Public Private Partnership	Koul P., Verma P., Arora L.	Koul, P., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India; Verma, P., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India; Arora, L., Faculty (Credit and Risk Management), State Bank Academy, Gurugram, India	International Journal of Public Administration	2022	1900692
5865	Investigation on fluid jet polishing of AISI H13 die steel using a single nozzle tool	Choudhary S., Duvedi R.K., Saini J.S.	Choudhary, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Duvedi, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022	9544089
5866	NON-PHARMACEUTICAL INTERVENTION STRATEGIES TO RESPOND TO THE COVID-19 PANDEMIC: PREFERENCE RANKING METHOD	Abdullah L., Garg H., Awang N.A., Pauzi H.M., Hashim H.	Abdullah, L., Management Science Research Group, Faculty of Ocean Engineering Technology and Informatics, University Malaysia Terengganu, Malaysia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, India, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, Jordan; Awang, N.A., College of Computing, Informatics and Media Studies, University of Technology MARA, Malaysia; Pauzi, H.M., Management Science Research Group, Faculty of Ocean Engineering Technology and Informatics, University Malaysia Terengganu, Malaysia; Hashim, H., College of Computing, Informatics and Media Studies, University of Technology MARA, Malaysia, Faculty of Computer and Mathematical Sciences, University of Technology MARA, Malaysia	Operational Research in Engineering Sciences: Theory and Applications	2022	26201607
5867	Architects Companion: Simulation of Visual Impairments for Architectural Purposes	Garg G., Makhija A., Madan N., Vij V., Mathur G., Shivani S.	Garg, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Makhija, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Madan, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Vij, V., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mathur, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shivani, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Communications in Computer and Information Science	2022	18650929
5868	Advanced Finishing Processes for Biomedical Applications	Bedi T.S., Kant R., Gurung H.	Bedi, T.S., Assistant Professor, Desh Bhagat University, Punjab, Mandi Gobindgarh, 147301, India; Kant, R., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, 140001, India; Gurung, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Horizons: From Nature to Nanomaterials	2022	25245384
5869	Dynamic Partitioning and Popularity based Caching for Optimized Performance in content-centric fog networks: DPPCOP	Kumar S., Tiwari R.	Kumar, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, R., University of Petroleum and Energy Studies, Department of Virtualization, School of Computer Science, Energy Acres, Bidholi, Dehradun, 248007, India	Pervasive and Mobile Computing	2022	15741192
5870	Silver-Based Nano-formulations for Treating Antibiotic-Resistant Microbial Strains	Chauhan A., Sillu D., Dhiman N.K., Agnihotri S.	Chauhan, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Sillu, D., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Dhiman, N.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Haryana, Kundli, Sonapat, India, Centre for Advanced Translational Research in Food Nano-Biotechnology (CATR-FNB), National Institute of Food Technology Entrepreneurship and Management, Haryana, Kundli, Sonapat, India	Nanotechnology in the Life Sciences	2022	25238027
5871	Interval Type 2 Fuzzy Based AHP Approach: A Case Study	Choudhury S., Bhowmik D.C., Debnath K., Saha A.K., Garg H.	Choudhury, S., National Institute of Technology, Agartala, India; Bhowmik, D.C., National Institute of Technology, Agartala, India; Debnath, K., National Institute of Technology, Agartala, India; Saha, A.K., National Institute of Technology, Agartala, India; Garg, H., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Fuzzy System Applications	2022	2156177X
5872	Seismic retrofitting and fragility for damaged RC beam-column joints using UHP-HFRC	Choudhury T., Bansal P.P.	Choudhury, T., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bansal, P.P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Earthquake and Structures	2022	20927614

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5873	Text Document clustering using partial Fractionation and Bisecting K-means	Singh H., Kaur S., Kaushal C.	Singh, H., Thapar Institute of Engineering & Technology, Department of Computer Science and Engineering, Patiala, India; Kaur, S., Dav University, Department of Computer Science and Engineering, Jalandhar, India; Kaushal, C., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	2022 10th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2022	2022	
5874	Surface Erosion Performance Of Yttrium Oxide Blended Wc-12Co Thermally Sprayed Coating For Mild Steel	Kumar P., Kumar S., Singh V., Ratha D.	Kumar, P., Department of Mechanical Engineering, National Institution of Technology, Jharkhand, Jamshedpur, 831014, India; Kumar, S., Department of Mechanical Engineering, National Institution of Technology, Jharkhand, Jamshedpur, 831014, India; Singh, V., Mechanical Engineering Department, Desh Bhagat University, Punjab, Mandi Gobindgarh, 831014, India; Ratha, D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Surface Review and Letters	2022	0218625X
5875	On Microstructure and Cavitation Erosion Behavior Of Microwave-Synthesized Ni-Al2O3-Based Composite Claddings	Bansal S., Kaushal S., Gupta D., Jain V.	Bansal, S., Mechanical Engineering Department, Shree Guru Gobind Singh Tricentenary University, Haryana, Gurugram, India; Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutions, Punjab, Khanna, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Surface Review and Letters	2022	0218625X
5876	Audio Segmentation Techniques and Applications Based on Deep Learning	Aggarwal S., Vasukidevi G., Selvakanmani S., Pant B., Kaur K., Verma A., Binegde G.N.	Aggarwal, S., Department of Computer Science and Engineering, Thapar University, Punjab, Patiala, 147004, India; Vasukidevi, G., Department of Science and Humanities, R.M.K. College of Engineering and Technology, R.S.M. Nagar, Tamil Nadu, Puduvoyal, India; Selvakanmani, S., Department of Artificial Intelligence and Data Science, Velammal Institute of Technology, Velammal Knowledge Park, Tamil Nadu, Chennai, India; Pant, B., Department of Computer Science and Engineering, Graphic Era Deemed to be University, Bell Road, Clement Town, Uttarakhand, Dehradun, 248002, India; Kaur, K., University Center for Research and Development, Chandigarh University, Punjab, Ajitgarh, India; Verma, A., University Center for Research and Development, Chandigarh University, Punjab, Ajitgarh, India; Binegde, G.N., Department of Computer Science, College of Engineering and Technology, Mettu University, Metu, Ethiopia	Scientific Programming	2022	10589244
5877	Multimodality for NLP-Centered Applications: Resources, Advances and Frontiers	Garg M., Wazarkar S., Singh M., Bojar O.	Garg, M., University of Florida, United States, Thapar Institute of Engineering & Technology, India; Wazarkar, S., Thapar Institute of Engineering & Technology, India; Singh, M., Speech and Audio Processing Group, IDIAP Research Institute, Switzerland, Charles University, Faculty of Mathematics and Physics, Institute of Formal and Applied Linguistics, Czech Republic; Bojar, O., Charles University, Faculty of Mathematics and Physics, Institute of Formal and Applied Linguistics, Czech Republic	2022 Language Resources and Evaluation Conference, LREC 2022	2022	
5878	Experimental investigation on magnetorheological fine finishing of EN-8 steel alloy mold surface for cylindrical plastic bottle caps	Paswan S.K., Arora K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022	9544089
5879	Towards sustainable agriculture: key determinants of adopting artificial intelligence in agriculture	Sood A., Bhardwaj A.K., Sharma R.K.	Sood, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Decision Systems	2022	12460125
5880	5G-Enabled IoT: Applications and Case Studies	Singh M., Goel S., Dewangan R.K.	Singh, M., Department of Electronics and Telecommunication Engineering, Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India; Goel, S., Department of Electronics and Computer Engineering, Institute of Technology, Nirma University, Gujrat, Ahmedabad, India; Dewangan, R.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India	5G and Beyond: The Future of IoT	2022	
5881	Data and Location Privacy of Smart Devices over Vehicular Cloud Computing	Al-Blasmeh H., Singh M., Singh R.	Al-Blasmeh, H., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, India; Singh, M., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, India; Singh, R., School of Computing Engineering, and Physical Sciences, University of the West of Scotland, United Kingdom	Conference of Open Innovation Association, FRUCT	2022	23057254
5882	Three-Phase Voltage Boosting Inverter using Single Switched Capacitor	Singh S., Abrol M., Jain S.K., Gupta K.K.	Singh, S., Thapar Institute of Engineering, Electrical and Instrumentation Engineering Department, Patiala, India; Abrol, M., Thapar Institute of Engineering, Electrical and Instrumentation Engineering Department, Patiala, India; Jain, S.K., Thapar Institute of Engineering, Electrical and Instrumentation Engineering Department, Patiala, India; Gupta, K.K., Thapar Institute of Engineering, Electrical and Instrumentation Engineering Department, Patiala, India	IECON Proceedings (Industrial Electronics Conference)	2022	
5883	An algorithm to solve multi-objective integer quadratic programming problem	Kushwah P., Sharma V.	Kushwah, P., School of Mathematics, TIET, Patiala, India; Sharma, V., School of Mathematics, TIET, Patiala, India	Annals of Operations Research	2022	2545330

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5884	Level Enhancement in Switched Capacitors based Multilevel Inverter using Level Doubling Network	Agarwal R., Jain A., Gupta K.K., Singh S.	Agarwal, R., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Jain, A., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Singh, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India	IECON Proceedings (Industrial Electronics Conference)	2022	
5885	2D Materials for CO2 Reduction and H2 Generation	Mir R.A., Upadhyay S., Pandey O.P.	Mir, R.A., Department of Materials Science Engineering, University of Toronto, Canada, Center of Excellence for Emerging Materials (CEEMS), Virginia Tech (VT), TIET, Punjab, Patiala, India; Upadhyay, S., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Division of Research and Innovation, Uttarakhand University, Dehradun, 248007, India; Pandey, O.P., Center of Excellence for Emerging Materials (CEEMS), Virginia Tech (VT), TIET, Punjab, Patiala, India, School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Green Energy Harvesting: Materials for Hydrogen Generation and Carbon Dioxide Reduction	2022	
5886	Compact-sized, Dual-element MIMO antenna together with Partial and Defected Ground Structure for 4G/5G UWB applications	Sohi A.K., Kaur A.	Sohi, A.K., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India; Kaur, A., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Patiala, India	3rd International Conference on Smart Electronics and Communication, ICOSEC 2022 - Proceedings	2022	
5887	Archimedes Spiral Antenna for the Microwave Hyperthermia Application	Kaur K., Kaur A.	Kaur, K., Thapar Institute of Engineering and Technology, Department of Electronics and Communication, Patiala, India; Kaur, A., Thapar Institute of Engineering and Technology, Department of Electronics and Communication, Patiala, India	3rd International Conference on Smart Electronics and Communication, ICOSEC 2022 - Proceedings	2022	
5888	QEEG Predictors of Treatment Response in Major Depressive Disorder- A Replication Study from Northwest India	Singh A., Arun P., Singh G.P., Kaur D., Kaur S.	Singh, A., Department of Psychiatry, Government Medical College and Hospital, Chandigarh, India; Arun, P., Department of Psychiatry, Government Medical College and Hospital, Chandigarh, India; Singh, G.P., Department of Psychiatry, All India Institute of Medical Sciences, Punjab, Bathinda, India; Kaur, D., Department of Electrical and Electronic Engineering, University Institute of Engineering and Technology, Chandigarh, India; Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Clinical EEG and Neuroscience	2022	15500594
5889	Improving Power Load Forecasting using FIS	Singh M., Batra I., Gill B.B., Kakkar A.	Singh, M., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Batra, I., Swami VivekanandInstitute of Engineering and Technology, Punjab, India; Gill, B.B., Department of Electrical and Computer, University of British Columbia, Vancouver, Canada; Kakkar, A., Department of Ece, Thapar Institute of Engineering and Technology, Patiala, India	2022 IEEE 13th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2022	2022	
5890	Adversarial Perturbations Augmented Language Models for Euphemism Identification	Kohli G.S., Kaur P., Bedi J.	Kohli, G.S., Thapar University, Patiala, India; Kaur, P., Thapar University, Patiala, India; Bedi, J., Thapar University, Patiala, India	FLP 2022 - 3rd Workshop on Figurative Language Processing, Proceedings of the Workshop	2022	
5891	ARGUABLY @ Causal News Corpus 2022: Contextually Augmented Language Models for Event Causality Identification	Kohli G.S., Kaur P., Bedi J.	Kohli, G.S., Thapar University, Patiala, India; Kaur, P., Thapar University, Patiala, India; Bedi, J., Thapar University, Patiala, India	CASE 2022 - 5th Workshop on Challenges and Applications of Automated Extraction of Socio-Political Events from Text, Proceedings of the Workshop	2022	
5892	On quality characteristics of additively manufactured polypropylene (PP)	Usman A., Sandhu K., Singh S., Singh H.	Usman, A., Planning and Design. Lovely Professional University, Punjab, India; Sandhu, K., Planning and Design. Lovely Professional University, Punjab, India; Singh, S., Chandigarh University, India; Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Innovative Processes and Materials in Additive Manufacturing	2022	
5893	Solid phase peptide synthesis	Goyal D., Goyal B.	Goyal, D., Department of Chemistry, DAV College, Chandigarh, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India	De Novo Peptide Design: Principles and Applications	2022	
5894	Bio ethanol production from water hyacinth	Tirva D., Tiwari D., Chalotra A., Rawat M.	Tirva, D., Department of Chemical Engineering, Marwadi University, Gujarat, India; Tiwari, D., Department of Chemical Engineering, Chandigarh University, Punjab, India; Chalotra, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, India	Materials Today: Proceedings	2022	22147853
5895	Design of waterborne coatings using crosslinking agent for enhancing drying	Rawat M., Chalotra A., Tiwari D.	Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chalotra, A., Department of Chemical Engineering, UIE, Chandigarh University, Punjab, Mohali, 140413, India; Tiwari, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5896	Maximum Boost Control Technique to Remove 6th Frequency Component from Three Phase Impedance Source Inverter	Sonar S., Mondal S., Banerjee S.	Sonar, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mondal, S., Institute of Engineering and Management, West Bengal, Kolkata, India; Banerjee, S., National Institute of Technology, West Bengal, Durgapur, India	2022 IEEE Global Conference on Computing, Power and Communication Technologies, GlobConPT 2022	2022	
5897	Dementia diagnosis with EEG using machine learning	Sharma N., Kolekar M.H.	Sharma, N., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kolekar, M.H., Department of Electrical Engineering, Indian Institute of Technology Patna, Bihta, Bihar, Patna, India	Artificial Intelligence for Neurological Disorders	2022	
5898	Modernizing CPS with Blockchain: Applications, Challenges & Future Directions	Ansar S.A., Singh A., Aggrawal S., Yadav A., Pathak P.C., Khan R.A.	Ansar, S.A., Babu Banarsi das University, Department of Computer Application, Lucknow, India; Singh, A., Babu Banarsi das University, Department of Computer Application, Lucknow, India; Aggrawal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Yadav, A., Babasaheb Bhimrao Ambedkar University, Department of Information Technology, Lucknow, India; Pathak, P.C., Babu Banarsi das University, Department of Computer Application, Lucknow, India; Khan, R.A., National Post Graduate College, Department of DDUKK, Lucknow, India	Proceedings - 2022 2nd International Conference on Interdisciplinary Cyber Physical Systems, ICPS 2022	2022	
5899	Online Jewelry Application for Predicting users Buying Habits	Pranup S.S., Nair A.P., Kumar A., Kumar P.V.D., Takkar S., Rakhra M., Aggarwal S.	Pranup, S.S., Lovely Professional University, Computer Science of Engineering, Punjab, Phagwara, India; Nair, A.P., Lovely Professional University, Computer Science of Engineering, Punjab, Phagwara, India; Kumar, A., Lovely Professional University, Computer Science of Engineering, Punjab, Phagwara, India; Kumar, P.V.D., Lovely Professional University, Computer Science of Engineering, Punjab, Phagwara, India; Takkar, S., Lovely Professional University, Computer Science of Engineering, Punjab, Phagwara, India; Rakhra, M., Lovely Professional University, Computer Science of Engineering, Punjab, Phagwara, India; Aggarwal, S., T.I.E.T, Department of Computer Science and Engineering, Punjab, Patiala, India	Proceedings - 2022 2nd International Conference on Interdisciplinary Cyber Physical Systems, ICPS 2022	2022	
5900	Smart Home Personal Assistants: Fueled by Natural Language Processor and Blockchain Technology	Ansar S.A., Jaiswal K., Aggarwal S., Shukla S., Yadav J., Soni N.	Ansar, S.A., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Jaiswal, K., University of Lucknow, Department of Computer Science, Lucknow, India; Aggarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Shukla, S., Babu Banarasi das University, Department of Computer Application, Lucknow, India; Yadav, J., University of Lucknow, Department of Computer Science, Lucknow, India; Soni, N., Babu Banarasi das University, Department of Computer Application, Lucknow, India	Proceedings - 2022 2nd International Conference on Interdisciplinary Cyber Physical Systems, ICPS 2022	2022	
5901	Dual-Hop Direct Diffusion Routing Protocol for Energy-Efficient Wireless Sensor Network	Gupta S.K., Tyagi S., Kumar S.	Gupta, S.K., Department of ECE, Amity School of Engineering and Technology, Lucknow Campus, Uttar Pradesh, Lucknow, India, Department of ECE, SRMS College of Engineering Technology and Research, AKTU, Uttar Pradesh, Lucknow, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology Deemed to be University, Punjab, Patiala, India; Kumar, S., Department of ECE, SRMS College of Engineering Technology and Research, AKTU, Uttar Pradesh, Lucknow, India	Lecture Notes in Electrical Engineering	2022	18761100
5902	A Novel Convolutional Neural Network-Based Segmentation Model for Lung CT Scan Images Affected by COVID-19	Srivastava V., Kalra N., Tulsyan A., Kumari R.	Srivastava, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kalra, N., Bharati Vidyapeeth's College of Engineering, New Delhi, India; Tulsyan, A., Bharati Vidyapeeth's College of Engineering, New Delhi, India; Kumari, R., Bharati Vidyapeeth's College of Engineering, New Delhi, India	Lecture Notes in Electrical Engineering	2022	18761100
5903	Robust Stabilization of an Inverted Pendulum Using ANFIS Controllers	Lamba R., Kumar Singla S., Sondhi S.	Lamba, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar Singla, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sondhi, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Electrical Engineering	2022	18761100
5904	A non-isolated MIC for PV application with wide input voltage range	Rao C.H.K., Patel R.N., Sahu L.K., Gupta K.K., Barwar M.K.	Rao, C.H.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Patel, R.N., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Barwar, M.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India	International Journal of Electronics	2022	207217
5905	Flexi-grid technology: A necessity for spectral resource utilization	Sharma D., Singh S., Upadhyay A., Taya S.A.	Sharma, D., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S., Department of Electronics & Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India; Upadhyay, A., Department of Applied Science & Humanities, Rajkiya Engineering College, Azamgarh, India; Taya, S.A., Department of Physics, Islamic University of Gaza, Palestine, Gaza Strip, Israel	Sub-Micron Semiconductor Devices: Design and Applications	2022	
5906	Minimization of refractory COD in the waste water stream	Tirva D., Rawat M., Chalotra A., Tiwari D.	Tirva, D., Department of Chemical Engineering, Marwadi University, Gujarat, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chalotra, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, D., Department of Chemical Engineering, UIE, Chandigarh University, Punjab, Mohali, 140413, India	Materials Today: Proceedings	2022	22147853

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5907	Plant-Microbe Interactions and Its Effecton Crop Productivity	Meena S.S., Mankoti M., Rout P.R., Mohanty A.	Meena, S.S., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, India; Mankoti, M., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering & Technology (TIET), Patiala, India; Mohanty, A., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, India	Advances in Agricultural and Industrial Microbiology: Volume-2: Applications of Microbes for Sustainable Agriculture and in-silico Strategies	2022	
5908	A Novel Design, Economic Assessment, and Fuzzy-Based Technical Validation of an Islanded Microgrid: A Case Study on Load Model of Kibber Village in Himachal Pradesh	Mehta S., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	International Transactions on Electrical Energy Systems	2022	20507038
5909	Implementation of point interpolation meshless method for failure analysis of laminated composite beams	Shah K.S., Gadade A.M., Sangsiri S.M.	Shah, K.S., Department of Mechanical Engineering, Army Institute of Technology, Pune, India; Gadade, A.M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sangsiri, S.M., Department of Mechanical Engineering, Army Institute of Technology, Pune, India	Mechanics of Advanced Materials and Structures	2022	15376494
5910	On neutrosophic $\alpha\psi$ -supra open sets	Parimala M., Karthika M., Garg H., Jafari S., Smarandache F.	Parimala, M., Department of Mathematics, Bananri Amman Institute of Technology, TN, Sathyamangalam, India; Karthika, M., Department of Mathematics, Bananri Amman Institute of Technology, TN, Sathyamangalam, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Jafari, S., College of Vestsjaelland South, Herrestraede 11, Slagelse, 4200, Denmark; Smarandache, F., Mathematics, Physics, and Natural Science Division, University of New Mexico, 705 Gurley Avenue, Gallup, NM 87301, United States	International Journal of Neutrosophic Science	2022	26926148
5911	Analytical Model of Conventional and Rectangular Core-Shell-based Double Gate Junctionless MOS	Narula V., Agarwal M.	Narula, V., Department of Electronics and Electrical Engineering, Lovely Professional University Jalandhar, Punjab, Phagwara, 144402, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	IETE Journal of Research	2022	3772063
5912	Nanofluid-based wick-type integrated solar still for improved diurnal and nocturnal distillate production	Singh J., Mittal M.K., Khullar V.	Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2022	15567036
5913	Prediction of International Roughness Index Using CatBooster and Shap Values	Bral S., Kumar P.P., Chopra T.	Bral, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Thapar University, Punjab, Patiala, 147004, India; Kumar, P.P., Department of Civil Engineering, University of Manitoba, Winnipeg, MB R3T 2H4, Canada; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Thapar University, Punjab, Patiala, 147004, India	International Journal of Pavement Research and Technology	2022	19966814
5914	RFID Tag Design with high read range Performance for Dual band Applications in UHF Range	Bansal A., Sharma S., Khanna R.	Bansal, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Sharma, S., Thapar University, Eced, Patiala, India; Khanna, R., Thapar University, Eced, Patiala, India	2022 IEEE 12th International Conference on RFID Technology and Applications, RFID-TA 2022	2022	
5915	Four-Level Boost Inverter Based on ANPC Topology with Switched-Capacitor Branch	Stala R., Penczek A., Piróg S., Skala A., Mondzik A., Waradzyn Z., Gupta K.K., Bhatnagar P., Jain S.K., Jena K.	Stala, R., AGH UNIVERSITY of SCIENCE and TECHNOLOGY, al. A. Mickiewicza 30, Krakow, Poland; Penczek, A., AGH UNIVERSITY of SCIENCE and TECHNOLOGY, al. A. Mickiewicza 30, Krakow, Poland; Piróg, S., AGH UNIVERSITY of SCIENCE and TECHNOLOGY, al. A. Mickiewicza 30, Krakow, Poland; Skala, A., AGH UNIVERSITY of SCIENCE and TECHNOLOGY, al. A. Mickiewicza 30, Krakow, Poland; Mondzik, A., AGH UNIVERSITY of SCIENCE and TECHNOLOGY, al. A. Mickiewicza 30, Krakow, Poland; Waradzyn, Z., AGH UNIVERSITY of SCIENCE and TECHNOLOGY, al. A. Mickiewicza 30, Krakow, Poland; Gupta, K.K., THAPAR INSTITUTE of ENGINEERING and TECHNOLOGY, Patiala, India; Bhatnagar, P., IES COLLEGE of TECHNOLOGY, Bhopal, India; Jain, S.K., THAPAR INSTITUTE of ENGINEERING and TECHNOLOGY, Patiala, India; Jena, K., SCHOOL of ELECTRICAL ENGINEERING, KIIT Deemed to Be University, Bhubaneswar, India	24th European Conference on Power Electronics and Applications, EPE 2022 ECCE Europe	2022	
5916	A V2G-enabled Seven-level Buck PFC Rectifier for EV Charging Application	Jain A., Agarwal R., Gupta K.K., Jain S.K.	Jain, A., Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Thapar Institute of Engineering and Technology, Patiala, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Patiala, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, India	24th European Conference on Power Electronics and Applications, EPE 2022 ECCE Europe	2022	
5917	Investigation of Micro-Cracks of Pure Titanium Using Wire Electric Discharge Machining (WEDM) Through Response Surface Methodology	Kumar V., Sharma R., Kumar J., Singh R.P., Kumar A.	Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Sharma, R., Department of Physics, Maharishi Markendeshwar Deemed to Be University Mullana, Haryana, Ambala, 133207, India; Kumar, J., Department of Mechanical Engineering, National Institute of Technology, Haryana, Kurukshetra, 136119, India; Singh, R.P., Department of Mechanical Engineering, Maharishi Markendeshwar Deemed to Be University, Haryana, Ambala, Mullana, 133207, India; Kumar, A., Department of Mechanical Engineering, Maharishi Markendeshwar Deemed to Be University, Haryana, Ambala, Mullana, 133207, India	Springer Proceedings in Materials	2022	26623161

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5918	Effects of various faults on Power Quality parameters in an isolated microgrid	Kaur N., Bhullar S., Kaushal J.	Kaur, N., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Bhullar, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India; Kaushal, J., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India	Proceedings of the 2022 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies: Computational Intelligence for Smart Systems, ICICICT 2022	2022	
5919	Robust Frequency Stabilization of Renewable-Bio-Electric Vehicle Integrated Multi Microgrid under Diverse Structure Model Predictive Controller	Latif A., Aftab M.A., Suhail Hussain S.M.	Latif, A., Khalifa University, Department of Electrical Engineering and Computer Science, Abu Dhabi, United Arab Emirates; Aftab, M.A., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Punjab, India; Suhail Hussain, S.M., National University of Singapore, Department of Computer Science, Singapore, Singapore	2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation, SeFeT 2022	2022	
5920	Synthesis of rare-earth-activated phosphors	Priya R., Bhatia S., Kaur S., Dubey V., Pandey O.P.	Priya, R., Department of Physics, Chandigarh University, Punjab, Mohali, 141023, India; Bhatia, S., Functional Material Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kaur, S., Functional Material Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Dubey, V., Department of Physics, Bhilai Institute of Technology Raipur, Chhattisgarh, Naya Raipur, India; Pandey, O.P., Functional Material Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Rare-Earth-Activated Phosphors: Chemistry and Applications	2022	
5921	Performance and exhaust emissions analysis of a diesel engine running on diesel /diethyl ether/biogas as a green fuel	Mahla S.K., Ardebili S.M.S., Rabeti M., Goga G., Dhir A., Sharma H.	Mahla, S.K., Department of Mechanical Engineering, IKG-PTU Campus, Hoshiarpur, India; Ardebili, S.M.S., Department of Biosystems Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran; Rabeti, M., Department of Mechanical Engineering, Sousangerd Branch, Islamic Azad University, Sousangerd, Iran; Goga, G., Department of Mechanical Engineering, IES College of Technology, Bhopal, India; Dhir, A., Thapar Institute of Engineering & Technology, School of Energy-Environment, Patiala, India; Sharma, H., Thapar Institute of Engineering & Technology, School of Energy-Environment, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2022	15567036
5922	Development of a new in-situ rotating magnetorheological honing technique for fine finishing the inner cylindrical surfaces	Paswan S.K., Singh A.K.	Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Machining Science and Technology	2022	10910344
5923	MECHANICAL AND METALLURGICAL CHARACTERIZATION OF ULTRAFINE GRAINED TITANIUM LAMINATES DEVELOPED BY LSEM	Kumar P., Joshi R.S., Singla R.K.	Kumar, P., Thapar Institute of Engineering and Technology, India; Joshi, R.S., Thapar Institute of Engineering and Technology, India; Singla, R.K., Thapar Institute of Engineering and Technology, India	Proceedings of ASME 2022 17th International Manufacturing Science and Engineering Conference, MSEC 2022	2022	
5924	Classification of primary and secondary malignant liver lesions using Laws' mask analysis and PNN classifier	Virmani J., Dhoat D.	Virmani, J., CSIR-Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, India; Dhoat, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Biomedical Engineering and Technology	2022	17526418
5925	EDCSu: Sustainable Edge Data Centers as a Service in SDN-Enabled Vehicular Environment	Aujla G.S., Kumar N., Garg S., Kaur K., Ranjan R.	Aujla, G.S., Chandigarh University, Computer Science and Engineering Department, Punjab, Mohali, 140413, India; Kumar, N., Thapar Institute of Engineering and Technology (Demmed to Be University), Computer Science and Engineering Department, Punjab, Patiala, 147003, India; Garg, S., Université du Québec, École de Technologie Supérieure, Montréal, QC H2L 2C4, Canada; Kaur, K., Université du Québec, École de Technologie Supérieure, Montréal, QC H2L 2C4, Canada; Ranjan, R., Newcastle University, School of Computing, Newcastle upon Tyne, NE1 7RU, United Kingdom, Chinese University of Geosciences, School of Computer, Wuhan, 430074, China	IEEE Transactions on Sustainable Computing	2022	23773782
5926	CAMS: An Annotated Corpus for Causal Analysis of Mental Health Issues in Social Media Posts	Garg M., Saxena C., Krishnan V., Joshi R., Saha S., Mago V., Dorr B.J.	Garg, M., Thapar Institute of Engineering & Technology, India, University of Florida, United States; Saxena, C., The Chinese University of Hong Kong, Hong Kong; Krishnan, V., University of Petroleum And Energy Studies, India; Joshi, R., Amity University Rajasthan, India; Saha, S., Indian Institute of Technology, Patna, India; Mago, V., Lakehead University, Canada; Dorr, B.J., University of Florida, United States	2022 Language Resources and Evaluation Conference, LREC 2022	2022	
5927	Improving organisational performance through TQM in an Indian manufacturing industry: an empirical study	Gupta P., Gupta N.	Gupta, P., Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, India; Gupta, N., Department of Computers Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Productivity and Quality Management	2022	17466474

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5928	Smartphone Based Grape Leaf Disease Diagnosis and Remedial System Assisted with Explanations	Malhi A., Apopei V., Madhikermi M., Mandeep, Främling K.	Malhi, A., Computing and Informatics Department, Bournemouth University, Poole, United Kingdom, Department of Computing Science, Aalto University, Espoo, Finland; Apopei, V., Computing and Informatics Department, Bournemouth University, Poole, United Kingdom, Department of Computing Science, Aalto University, Espoo, Finland; Madhikermi, M., Department of Computing Science, Aalto University, Espoo, Finland, Department of Computing Science, Umeå University, Umeå, Sweden; Mandeep, Department of Computing Science, Thapar University, Patiala, India; Främling, K., Department of Computing Science, Aalto University, Espoo, Finland, Department of Computing Science, Umeå University, Umeå, Sweden	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2022	3029743
5929	Modeling and prediction of the third wave of COVID-19 spread in India	Bandekar S.R., Das T., Srivastav A.K., Yadav A., Kumar A., Srivastava P.K., Ghosh M.	Bandekar, S.R., Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai, India; Das, T., Department of Mathematics, Indian Institute of Technology, Patna, India; Srivastav, A.K., Basque Center for Applied Mathematics, BCAM, Bilbao, Spain; Yadav, A., SRM University, Chennai, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology, Patna, India; Ghosh, M., Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai, India	Computational and Mathematical Biophysics	2022	25447297
5930	Existence of best proximity point in quasi partial metric space with an application	Sharma S., Chandok S.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Analysis	2022	9713611
5931	Certificate-Based Signcryption Scheme for Securing Wireless Communication in Industrial Internet of Things	Ullah I., Alomari A., Abdullah A.M., Kumar N., Alsirhani A., Noor F., Hussain S., Khan M.A.	Ullah, I., Hamdard Institute of Engineering and Technology, Islamabad, 44000, Pakistan; Alomari, A., Department of Computer Science, Al-Baha University, Al Bahah, 65799, Saudi Arabia; Abdullah, A.M., Computer Science Department, College of Basic Education, University of Sulaimani, Sulaymaniyah, 46001, Iraq; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, King Abdul Aziz University, Jeddah, 22233, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248001, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1100, Lebanon; Alsirhani, A., College of Computer and Information Sciences, Jouf University, Sakaka, 72388, Saudi Arabia; Noor, F., Faculty of Computer and Information Systems, Islamic University of Madinah, Medina, 400411, Saudi Arabia; Hussain, S., School of Digital Science, Universiti Brunei Darussalam, Gadong, BE1410, Brunei Darussalam; Khan, M.A., Hamdard Institute of Engineering and Technology, Islamabad, 44000, Pakistan	IEEE Access	2022	21693536
5932	U-DAVIS-Deep Learning Based Arm Venous Image Segmentation Technique for Venipuncture	Kuthiala A., Tuli N., Singh H., Boyraz O.F., Jindal N., Mavuduru R., Pattanaik S., Rana P.S.	Kuthiala, A., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Tuli, N., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, H., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Boyraz, O.F., Research and Development Centre, Gebze, Kocaeli, 41400, Turkey; Jindal, N., Thapar Institute of Engineering and Technology, Patiala, 147001, India; Mavuduru, R., Postgraduate Institute of Medical Education and Research, Chandigarh, 160012, India; Pattanaik, S., Postgraduate Institute of Medical Education and Research, Chandigarh, 160012, India; Rana, P.S., Thapar Institute of Engineering and Technology, Patiala, 147001, India	Computational Intelligence and Neuroscience	2022	16875265
5933	Soy flour-based biochars for enhanced removal of anionic and cationic dyes	Choudhary R., Pandey O.P., Brar L.K.	Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Biomass Conversion and Biorefinery	2022	21906815
5934	Socio-technical capabilities for blockchain implementation by service providers: multiple case study of projects with transaction time reduction and quality improvement objectives	Chaudhuri A., Bhatia M.S., Subramanian N., Kayikci Y., Dora M.	Chaudhuri, A., Department of Management and Marketing, Durham University Business School, Durham, United Kingdom, Department of Materials and Production, Aalborg University, Aalborg, Denmark; Bhatia, M.S., LM Thapar School of Management, Dera Bassi, India; Subramanian, N., Science Policy Research Unit, University of Sussex Business School, Brighton, United Kingdom; Kayikci, Y., Science Policy Research Unit, University of Sussex Business School, Brighton, United Kingdom, Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom; Dora, M., Brunel Business School, Brunel University, Uxbridge, United Kingdom, School of Management, Anglia Ruskin University, Cambridge, United Kingdom	Production Planning and Control	2022	9537287
5935	Synergistic polymorphic interactions of phase II metabolizing genes and their association toward lung cancer susceptibility in North Indians	Walia H.K., Sharma P., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Environmental Health Research	2022	9603123
5936	Soft Ferrite Bi-layer Design of Frequency Selective Micro Cavity	Arya M., Pattanayak A., Gandhi M.N., Pradhan K., Punjal A., Prabhu S.S., Achanta V.G., Duttgupta S.P.	Arya, M., Indian Institute of Technology Bombay, Mumbai, 400076, India; Pattanayak, A., Thapar Institute of Engineering and Technology, Punjab, 147004, India; Gandhi, M.N., Indian Institute of Technology Bombay, Mumbai, 400076, India; Pradhan, K., Indian Institute of Technology Bombay, Mumbai, 400076, India; Punjal, A., Tata Institute of Fundamental Research, Mumbai, 400005, India; Prabhu, S.S., Tata Institute of Fundamental Research, Mumbai, 400005, India; Achanta, V.G., Tata Institute of Fundamental Research, Mumbai, 400005, India, CSIR-National Physical Laboratory, Delhi, 110012, India; Duttgupta, S.P., Indian Institute of Technology Bombay, Mumbai, 400076, India	International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz	2022	21622027

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5937	Near-Field Imaging of a TeraHertz deep-subwavelength Metasurface	Punjal A., Pattanayak A., Gohil H., Prabhu S.	Punjal, A., Tata Institute of Fundamental Research, Mumbai, 400005, India, Vishwakarma Institute of Information Technology, Pune, 411048, India; Pattanayak, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gohil, H., Tata Institute of Fundamental Research, Mumbai, 400005, India; Prabhu, S., Tata Institute of Fundamental Research, Mumbai, 400005, India	International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz	2022	21622027
5938	Structural and Electrical Properties of Gd Doped CeO ₂ (GDC) Nanoceramics for Solid Oxide Fuel Cell Applications	Kaur T., Kumar R., Khan S., Singh K., Kolve J.	Kaur, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Khan, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kolve, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Transactions of the Indian Ceramic Society	2022	0371750X
5939	Blockchain Technology for Health Care	Kaswan K.S., Dhatterwal J.S., Singh S.P.	Kaswan, K.S., School of Computing Science and Engineering, Galgotias University, Uttar Pradesh, India; Dhatterwal, J.S., School of Computer Science & Applications, PDM University Bahadurgarh, Haryana, India; Singh, S.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India	Healthcare and Knowledge Management for Society 5.0: Trends, Issues, and Innovations	2022	
5940	Analysis of T-Spherical Fuzzy Matrix and Their Application in Multiattribute Decision-Making Problems	Garg H., Saad M., Rafiq A.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Saad, M., Department of Applied Mathematics & Statistics, Institute of Space Technology, Islamabad, Pakistan; Rafiq, A., Department of Applied Mathematics & Statistics, Institute of Space Technology, Islamabad, Pakistan	Mathematical Problems in Engineering	2022	1024123X
5941	Benzimidazole appended optical sensors for ionic species: Compilation of literature reports from 2017 to 2022	Jindal G., Vashisht P., Kaur N.	Jindal, G., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Vashisht, P., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kaur, N., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Results in Chemistry	2022	22117156
5942	An Application of Fuzzy Multiple Linear Regression in Biological Paradigm	Mustafa S., Ghaffar S., Bibi M., Khan M.G., Praveen Q., Garg H., Saminou M.	Mustafa, S., Department of Mathematics and Statistics, PMAS Arid Agriculture University, Rawalpindi, Pakistan; Ghaffar, S., Department of Mathematics and Statistics, PMAS Arid Agriculture University, Rawalpindi, Pakistan; Bibi, M., Department of Mathematics and Statistics, PMAS Arid Agriculture University, Rawalpindi, Pakistan; Khan, M.G., Institute of Numerical Sciences, Kohat University of Science and Technology, Kohat, Pakistan; Praveen, Q., Division of Continuing Education, PMAS-Arid Agriculture University, Rawalpindi, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Saminou, M., Department of Mathematics and Computer Science, University of Agadez, Agadez, Niger	Complexity	2022	10762787
5943	A Robust Gender Identification System for Speaker Recognition Using Linear Discriminant Analysis Stepwise Dimension Reduction	Sharma A., Singla S.K.	Sharma, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Lecture Notes in Electrical Engineering	2022	18761100
5944	NN-LP-CF: Neural Network Based Link Prediction on Social Networks Using Centrality-Based Features	Singh S.S., Srivastva D., Kumar A., Srivastava V.	Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Srivastva, D., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Kumar, A., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Srivastava, V., Department of Computer Science and Engineering, Bennett University, Greater Noida, India	Studies in Big Data	2022	21976503
5945	Coupling, optimization and the effect of binary relation	Sarkar D., Chandok S., Konar P., Bhardwaj R., Choudhary P.R.S.	Sarkar, D., Department of Mathematics, Amity University, Kadampukur, 24PGS(N), West Bengal, Kolkata, 700135, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147-004, India; Konar, P., Department of Mathematics, ICFAI University, Kamalghat, Tripura, West Tripura, Mohanpur, 799210, India; Bhardwaj, R., Department of Mathematics, Amity University, Kadampukur, 24PGS(N), West Bengal, Kolkata, 700135, India; Choudhary, P.R.S., Department of Mathematics & Computer Science, Government Science College, M.P, Jabalpur, India	Journal of Analysis	2022	9713611
5946	A Deep Learning Approach for Anomalous User-Intrusion Detection in Social Media Network System	Lal N., Kumar S., Kaidan G.	Lal, N., Department of Computer science & Engineering, Indian Institute of Information Technology (IIIT Nagpur), Maharashtra, Nagpur, 440003, India, Thapar University, Punjab, Patiala, India; Kumar, S., Department of Computer science & Engineering, Indian Institute of Information Technology (IIIT Nagpur), Maharashtra, Nagpur, 440003, India, Thapar University, Punjab, Patiala, India; Kaidan, G., Department of Computer science & Engineering, Indian Institute of Information Technology (IIIT Nagpur), Maharashtra, Nagpur, 440003, India, Thapar University, Punjab, Patiala, India	Studies in Big Data	2022	21976503
5947	Design and Development of Fixed-Off Time based Flyback Converter	Kumar H., Dar J.A., Sonar S.	Kumar, H., Indian Institute of Technology Jodhpur, Department of Electrical Engineering, Rajasthan, Jodhpur, India; Dar, J.A., Indian Institute of Technology Roorkee, Department of Electrical Engineering, Uttarakhand, Roorkee, India; Sonar, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Punjab, Patiala, India	2022 IEEE Region 10 Symposium, TENSYPMP 2022	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5948	Efficient Trajectory Planning and Route Adjustment Strategy for Mobile Sink in WSN-assisted IoT	Mehto A., Verma R.K., Jain S.	Mehto, A., Madhav Institute of Technology & Science, Gwalior, India; Verma, R.K., Indian Institute of Information Technology, Lucknow, India; Jain, S., Thapar Institute of Engineering and Technology, Patiala, India	2022 IEEE Region 10 Symposium, TENSYPMP 2022	2022	
5949	Anti-Plane Wave Propagation in the Functionally Graded Hybrid Structure under an External Impulsive Force: A Green's Function Approach	Bharti U., Vaishnav P.K.	Bharti, U., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Vaishnav, P.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Mathematical Problems in Engineering	2022	1024123X
5950	Advances in industrial biocatalysis through immobilized extremozymes	Sillu D., Agnihotri C., Agnihotri S.	Sillu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agnihotri, C., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Haryana, Sonapat, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Haryana, Sonapat, India, Centre for Advanced Translational Research in Food Nano-Biotechnology (CATR-FNB), National Institute of Food Technology Entrepreneurship and Management, Haryana, Sonapat, India	Extremozymes and their Industrial Applications	2022	
5951	FOGMINATOR: LIDAR based device for collision avoidance in fog	Parmar N., Sharma N., Arora A., Goyal D., Gehlot A.	Parmar, N., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Sharma, N., Department of Mechanical Engineering, Thapar University, Punjab, Patiala, India; Arora, A., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Goyal, D., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Gehlot, A., Uttaranchal School of Computing Sciences, Uttaranchal University, Uttarakhand, Dehradun, 248 007, India	Materials Today: Proceedings	2022	22147853
5952	Hybrid thermoelectric air cooler for building cooling	Parmar N., Sharma N., Arora A., Goyal D., Buddhi D.	Parmar, N., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Sharma, N., Department of Mechanical Engineering, Thapar University, Punjab, Patiala, India; Arora, A., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Goyal, D., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Buddhi, D., Uttaranchal Institute of Technology, Uttaranchal University, Uttarakhand, Dehradun, 248007, India	Materials Today: Proceedings	2022	22147853
5953	Carbon sequestration and harnessing biomaterials from terrestrial plantations for mitigating climate change impacts	Edrisi S.A., Tripathi V., Dubey P.K., Abhilash P.C.	Edrisi, S.A., School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Tripathi, V., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Dubey, P.K., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Abhilash, P.C., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India	Biomass, Biofuels, Biochemicals: Climate Change Mitigation: Sequestration of Green House Gases	2022	
5954	Cyber-attacks visualisation and prediction in complex multi-stage network	Mishra S., Alotaibi W.B., Alshehri M., Saxena S.	Mishra, S., Department of Computer Engineering, Majmaah University, Majmaah, Riyadh, 11952, Saudi Arabia; Alotaibi, W.B., Department of Information Technology, Majmaah University, Majmaah, Riyadh, 11952, Saudi Arabia; Alshehri, M., Department of Information Technology, Majmaah University, Majmaah, Riyadh, 11952, Saudi Arabia; Saxena, S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	International Journal of Computer Applications in Technology	2022	9528091
5955	Improving pitting corrosion resistance of AISI 316L weld overlays via Inconel 82 additions	Kaur H., Singh H.	Kaur, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology, Ropar, 140001, India	Materials Today: Proceedings	2022	22147853
5956	Improved enzymatic hydrolysis of lignocellulosic waste biomass: most essential stage to develop cost-effective second-generation biofuel production	Dey P., Gupta G., Nayak J., Dilip K.J.	Dey, P., Department of Biotechnology, Karunya Institute of Technology and Sciences, Tamil Nadu, Coimbatore, India; Gupta, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Nayak, J., Department of Chemical Engineering, Kalasalingam Academy of Research and Education (Deemed to be University), Tamil Nadu, Krishnankoil, India; Dilip, K.J., Department of Life Sciences, National Dong Hwa University, Taiwan, Taipei, China	Biofuels and Bioenergy: A Techno-Economic Approach	2022	
5957	Designing, Manufacturing and Testing of New Radiator	Gupta G., Sidkar P., Sharma B.	Gupta, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sidkar, P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, B., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2022	21954356
5958	An optimized Chebyshev–Halley type family of multiple solvers: Extensive analysis and applications	Rani L., Soleymani F., Kansal M., Kumar Nashine H.	Rani, L., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, India; Soleymani, F., Department of Mathematics, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, India; Kumar Nashine, H., Mathematics Division, School of Advanced Sciences and Languages, VIT Bhopal University, Bhopal, India, Department of Mathematics and Applied Mathematics, University of Johannesburg, Kingsway Campus, Johannesburg, South Africa	Mathematical Methods in the Applied Sciences	2022	1704214

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5959	Versatile Carbon Nanofiber-Based Sensors	Kundu A., Shetti N.P., Basu S., Mondal K., Sharma A., Aminabhavi T.M.	Kundu, A., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Hubballi, Vidyanagar, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty-TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mondal, K., Materials Science and Engineering Department, Idaho National Laboratory, Idaho Falls, ID 83415, United States; Sharma, A., Department of Chemical Engineering, Indian Institute of Technology Kanpur, Uttar Pradesh, Kanpur, 208016, India; Aminabhavi, T.M., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Hubballi, Vidyanagar, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India	ACS Applied Bio Materials	2022	25766422
5960	An Edge Filter Based Approach of Neural Style Transfer to the Image Stylization	Bagwari S., Choudhary K., Raikwar S., Nijhawan R., Kumar S., Shah M.A.	Bagwari, S., TIET, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Choudhary, K., TIET, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Raikwar, S., TIET, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Nijhawan, R., University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India; Kumar, S., University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India; Shah, M.A., Bakhtar University, Department of Economics, Kabul, 1001, Afghanistan	IEEE Access	2022	21693536
5961	Social Image Content Analysis for Fashion using Deep Learning	Wazarkar S., Kotecha K., Patil S., Kalra N.	Wazarkar, S., Thapar Institute of Engineering and Technology, Csed, Patiala, India; Kotecha, K., Thapar Institute of Engineering and Technology, Csed, Patiala, India; Patil, S., Thapar Institute of Engineering and Technology, Csed, Patiala, India; Kalra, N., Thapar Institute of Engineering and Technology, Csed, Patiala, India	Proceedings - 2022 IEEE World Conference on Applied Intelligence and Computing, AIC 2022	2022	
5962	Enhancement of Transmission Systems Operational Condition in a Large Scale Wind Integrated Power Systems Against Extreme Weather Events	Ahire N., Paul S., Rather Z.H.	Ahire, N., Electrical Engineering, Indian Institute of Technology, Bombay, India; Paul, S., Electrical and Instrumentation Engineering, Thapar Institute of Engineering Technology, India; Rather, Z.H., Energy Science Engineering, Indian Institute of Technology, Bombay, India	10th International Conference on Smart Grid, icSmartGrid 2022	2022	
5963	PROMO: PROactive MObility-support model for task scheduling in fog computing	Kaur N., Kumar A., Kumar R.	Kaur, N., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India, School of Computer Application, Lovely Professional University, Phagwara, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Computers and Applications	2022	1206212X
5964	Photoluminescent properties of rare-earth doped perovskite calcium silicates and related systems	Chhina M.K., Singh K.	Chhina, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Advanced Ceramics for Versatile Interdisciplinary Applications	2022	
5965	Machine learning and its applications	Arora V., Yin-Kwee Ng E., Singh A.	Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Yin-Kwee Ng, E., School of Mechanical & Aerospace Engineering, Nanyang Technological University, Singapore; Singh, A., Wipro Limited, Haryana, Gurugram, India	Smart Electrical and Mechanical Systems: An Application of Artificial Intelligence and Machine Learning	2022	
5966	Raccoons at SemEval-2022 Task 11: Leveraging Concatenated Word embeddings for Named Entity Recognition	Dogra A., Kaur P., Kohli G.S., Bedi J.	Dogra, A., Thapar University, Patiala, India; Kaur, P., Thapar University, Patiala, India; Kohli, G.S., Thapar University, Patiala, India; Bedi, J., Thapar University, Patiala, India	SemEval 2022 - 16th International Workshop on Semantic Evaluation, Proceedings of the Workshop	2022	
5967	AI-enabled IoT based multimodal authentication system for securing the hardware and software clients	Shelke N.A., Ahuja S., Banarjee A., Singh N.P., Kasana S.S., Kukreja S.	Shelke, N.A., Bennett University (Times of India Group), Computer Science and Engineering, Greater Noida, India; Ahuja, S., Computer Science and Engineering TIET, Patiala, India; Banarjee, A., Bennett University (Times of India Group), Computer Science and Engineering, Greater Noida, India; Singh, N.P., Bennett University (Times of India Group), Computer Science and Engineering, Greater Noida, India; Kasana, S.S., Computer Science and Engineering TIET, Patiala, India; Kukreja, S., Bennett University (Times of India Group), Computer Science and Engineering, Greater Noida, India	2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing, COM-IT-CON 2022	2022	
5968	IDIAP_TIET@LT-EDI-ACL2022: Hope Speech Detection in Social Media using Contextualized BERT with Attention Mechanism	Khanna D., Singh M., Motlicek P.	Khanna, D., TIET, Patiala, India; Singh, M., IDIAP Research Institute, Martigny, Switzerland; Motlicek, P., IDIAP Research Institute, Martigny, Switzerland	LTEDI 2022 - 2nd Workshop on Language Technology for Equality, Diversity and Inclusion, Proceedings of the Workshop	2022	
5969	Deep Learning enabled Channel Secrecy Codes for Physical Layer Security of UAVs in 5G and beyond Networks	Sharma H., Kumar N., Tekchandani R.K., Mohammad N.	Sharma, H., Thapar Institute of Engineering and Technology, Computer Science & Engineering Department, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science & Engineering Department, India; Tekchandani, R.K., Thapar Institute of Engineering and Technology, Computer Science & Engineering Department, India; Mohammad, N., Prince Mohammad Bin Fahd University (PMU), Cybersecurity Center, Al Khobar, Saudi Arabia	IEEE International Conference on Communications	2022	15503607

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5970	Standalone PV Based BESS Using Bidirectional DC-DC SEPIC/ZETA Converter	Bhandari A.S., Bose S., Dwivedi P., Pandey S.	Bhandari, A.S., National Institute of Technology, Uttarakhand, India; Bose, S., National Institute of Technology, Uttarakhand, India; Dwivedi, P., National Institute of Technology, Uttarakhand, India; Pandey, S., Tiet, Punjab, Patiala, India	2022 2nd International Conference on Intelligent Technologies, CONIT 2022	2022	
5971	Energy-Efficient Optimization Scheme for RIS-Assisted Communication Underlying UAV with NOMA	Budhiraja I., Vishnoi V., Kumar N., Garg D., Tyagi S.	Budhiraja, I., Bennett University, School of Computer Science Engineering and Technology, U.P., Greater Noida, India; Vishnoi, V., Bennett University, School of Computer Science Engineering and Technology, U.P., Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Punjab, Patiala, India; Garg, D., Bennett University, School of Computer Science Engineering and Technology, U.P., Greater Noida, India; Tyagi, S., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, India	IEEE International Conference on Communications	2022	15503607
5972	Predicting malicious activity in Android using Machine Learning	Gupta M., Anne S.V.N.S.	Gupta, M., Thapar Institute of Engineering and Technology, Computer Engineering, Patiala, India; Anne, S.V.N.S., Kakatiya Institute of Technology and Science, Computer Science and Engineering, Warangal, India	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022	2022	
5973	An Intelligent Machine Learning Approach for Smart Grid Theft Detection	Garg D., Kumar N., Mohammad N.	Garg, D., Thapar Institute of Engineering & Technology, Computer Science & Engineering Department, Patiala, India; Kumar, N., Thapar Institute of Engineering & Technology, Computer Science & Engineering Department, Patiala, India; Mohammad, N., Prince Mohammad Bin Fahd University, Cybersecurity Center, Khobar, Saudi Arabia	Proceedings - 2022 IEEE 23rd International Symposium on a World of Wireless, Mobile and Multimedia Networks, WoWMoM 2022	2022	
5974	Blockchain technology with its application in medical and healthcare systems: A survey	Gupta B.B., Mamta, Mehla R., Alhalabi W., Alsharif H.	Gupta, B.B., International Center for AI and Cyber Security Research and Innovations & Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, Department of Computer Science, King Abdulaziz University, Jeddah, Saudi Arabia, Lebanese American University, Beirut, Lebanon, Center for Interdisciplinary Research, University of Petroleum and Energy Studies (UPES), Dehradun, India; Mamta, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mehla, R., Department of Computer Engineering, National Institute of Technology Kurukshetra, Kurukshetra, India; Alhalabi, W., Department of Computer Science, King Abdulaziz University, Jeddah, Saudi Arabia; Alsharif, H., Computer Science Department, Faculty of Computer and Information Technology, Umm Al-Qura University, Makkah, Saudi Arabia	International Journal of Intelligent Systems	2022	8848173
5975	Stability estimates for singularly perturbed Fisher's equation using element-free Galerkin algorithm	Kaur J., Sangwan V.	Kaur, J., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sangwan, V., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	AIMS Mathematics	2022	24736988
5976	Bitcoin-Blockchain Technology: Security Perspective	Ansar S.A., Arya S., Aggrawal S., Yadav J., Pathak P.C.	Ansar, S.A., Babu Banarasi Das University, Department of Computer Application, Lucknow, India; Arya, S., Babu Banarasi Das University, Department of Computer Application, Lucknow, India; Aggrawal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, India; Yadav, J., University of Lucknow, Department of Computer Science, Lucknow, India; Pathak, P.C., Babu Banarasi Das University, Department of Computer Application, Lucknow, India	Proceedings of 3rd International Conference on Intelligent Engineering and Management, ICIEM 2022	2022	
5977	A Modern Replica for COVID-19 Pestilential Disease Identification	Yadav N., Ahuja A., Ashish M., Nijhawan R., Sharma B.	Yadav, N., Indraprastha Institute of Information Technology, Computer Science Department, New Delhi, India; Ahuja, A., Thapar Institute of Engineering and Technology, Computer Science Department, Patiala, India; Ashish, M., Indraprastha Institute of Information Technology, Computer Science Department, New Delhi, India; Nijhawan, R., University of Petroleum and Energy Studies, Computer Science Department, U.K., Dehradun, India; Sharma, B., DIT University, Computer Science Department, U.K., Dehradun, India	Proceedings of 3rd International Conference on Intelligent Engineering and Management, ICIEM 2022	2022	
5978	Investigations on Chemical Assisted Mechanically Blended 3D Printed Functional Prototypes of PVDF-BaTiO3-Gr Composite	Sharma R., Singh R., Batish A., Ranjan N.	Sharma, R., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Thapar Institute of Engineering and Technology, Patiala, India; Ranjan, N., Chandigarh University, Punjab, Mohali, India	Encyclopedia of Materials: Plastics and Polymers	2022	
5979	Fuzzy VIKOR approach to identify COVID-19 vulnerability region to control third wave in Assam, India	Basumatary B., Wary N., Khaklary J.K., Garg H.	Basumatary, B., Department of Mathematical Sciences, Bodoland University, Assam, Kokrajhar, India; Wary, N., Department of Mathematical Sciences, Bodoland University, Assam, Kokrajhar, India; Khaklary, J.K., Department of Mathematics, Central Institute of Technology, Assam, Kokrajhar, India; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Punjab, Patiala, India	Journal of Intelligent and Fuzzy Systems	2022	10641246
5980	Invertase production by yeast mediated silver nanoparticles using statistical tool central composite design	Sowbarnika R., Anhuradha S., Preetha B., Tiwari D., Rawat M.	Sowbarnika, R., Department of Chemical Engineering, Marwadi University, Gujarat, India; Anhuradha, S., Department of Chemical Engineering, Annamalai University, Tamil Nadu, India; Preetha, B., Department of Chemical Engineering, Annamalai University, Tamil Nadu, India; Tiwari, D., Department of Chemical Engineering, Chandigarh University, Punjab, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Materials Today: Proceedings	2022	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5981	A comparative study on the biochemical effect of Chromolaena odorata and Calotropis gigantea on excised wound	Sowbarnika R., Tiwari D., Rawat M.	Sowbarnika R., Department of Chemical Engineering, Marwadi University, Gujarat, India; Tiwari, D., Department of Chemical Engineering, Chandigarh University, Punjab, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Materials Today: Proceedings	2022	22147853
5982	Recent advancements in microplastics treatments: Characteristics, occurrence, and removal technologies	Das A.A., Mishra S., Pradhan P., Nayak L., Raulo S., Das K., Sahoo M., Sahoo P.K., Naik B., Rout P.R., Sahoo N.K.	Das, A.A., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Mishra, S., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Pradhan, P., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Nayak, L., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Raulo, S., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Das, K., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Sahoo, M., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Sahoo, P.K., Department of Mechanical Engineering, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Naik, B., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Sahoo, N.K., Department of Chemistry, Environmental Science Program, Institute of Technical Education and Research, Siksha'O'Anusandhan (Deemed to be University), Odisha, Bhubaneswar, 751 030, India	Materials Today: Proceedings	2022	22147853
5983	Revisiting Masculinity and Othering in Diasporic Fiction	Saxena S., Sharma D.	Saxena, S., TIET University, Patiala, India; Sharma, D., TIET University, India	Journal of International Women's Studies	2022	15398706
5984	Sustainable flood risk assessment using deep learning-based algorithms with a blockchain technology	Mia M.U., Rahman M., Elbeltagi A., Abdullah-Al-Mahbub M., Sharma G., Islam H.M.T., Pal S.C., Costache R., Islam A.R.M.T., Islam M.M., Chen N., Alam E., Washakh R.M.A.	Mia, M.U., Department of Disaster Management, Begum Rokeya University, Rangpur, Bangladesh; Rahman, M., Department of Civil Engineering, International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh; Elbeltagi, A., Agricultural Engineering Dept, Faculty of Agriculture, Mansoura University, Mansoura, Egypt; Abdullah-Al-Mahbub, M., Department of Disaster Management, Begum Rokeya University, Rangpur, Bangladesh; Sharma, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Islam, H.M.T., Department of Disaster Management, Begum Rokeya University, Rangpur, Bangladesh; Pal, S.C., Department of Geography, The University of Burdwan, West Bengal, Bardhaman, India; Costache, R., Department of Civil Engineering, Transilvania University of Brasov, Brasov, Romania, Danube Delta National Institute for Research and Development, Tulcea, Romania; Islam, A.R.M.T., Department of Disaster Management, Begum Rokeya University, Rangpur, Bangladesh; Islam, M.M., Department of Civil Engineering, International University of Business Agriculture and Technology (IUBAT), Dhaka, Bangladesh; Chen, N., Key Laboratory for Mountain Hazards and Earth Surface Process, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences (CAS), Chengdu, China, University of Chinese Academy of Sciences, Beijing, China, Academy of Plateau Science and Sustainability, Xining, China; Alam, E., Faculty of Resilience, Abu Dhabi, United Arab Emirates, Department of Geography and Environmental Studies, University of Chittagong, Chittagong, Bangladesh; Washakh, R.M.A., School of Architecture, Neijiang Normal University, Sichuan, Neijiang, China	Geocarto International	2022	10106049
5985	Reduction in Current Harmonics and CMV in DTC Controlled Five-Phase Induction Motor	Tatte Y.	Tatte, Y., Eied, Thapar Institute of Engineering and Technology, Patiala, India	2022 3rd International Conference for Emerging Technology, INCET 2022	2022	
5986	Bio Inspired Meta Heuristic Approach based on Red Deer in WSN	Juneja S., Kaur K., Singh H., Richa	Juneja, S., Ece, Adgitm, Delhi, India; Kaur, K., Ece Amity University, Haryana, Gurugram, India; Singh, H., Ece, Thapar University, Punjab, Patiala, India; Richa, Ece, Adgitm, Delhi, India	7th International Conference on Communication and Electronics Systems, ICCES 2022 - Proceedings	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5987	A Novel MAGDM Approach Based on Cubic q-Rung Orthopair Fuzzy Power Generalized Maclaurin Symmetric Mean Operator	Khan Q., Garg H., Khattak H., Al-Babtain A.A., Elbatal I., Elgarhy M.	Khan, Q., Department of Mathematics and Statistic, University of Haripur, KPK, Haripur, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Khattak, H., Department of Computer Science and Information Technology, Hazara University, Mansehra, Pakistan; Al-Babtain, A.A., Department of Statistics and Operations Research, King Saud University, Riyadh, 11362, Saudi Arabia; Elbatal, I., Department of Mathematics and Statistics, College of Science, Imam Mohammad Ibn Saud Islamic University (IIMSUI), Saudi Arabia; Elgarhy, M., The Higher Institute of Commercial Sciences, Al Mahalla Al Kubra, Algarbia, 31951, Egypt	Journal of Function Spaces	2022	23148896
5988	EXPERIMENTAL INVESTIGATION OF MARBLE DUST CONCRETE IN ARTIFICIAL SEA WATER	Agrawal N., Srivastava A., Singh M., Khapre R.	Agrawal, N., Dept of Civil Engineering, BITS-PILANI, Rajasthan, Pilani, India; Srivastava, A., Dept of Civil Engineering, BITS-PILANI, Rajasthan, Pilani, India; Singh, M., Dept of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, India; Khapre, R., Dept of Civil Engineering, Shri Rameobaba College of Engineering, Nagpur, India	Proceedings of International Structural Engineering and Construction	2022	2644108X
5989	Voltage Differencing Buffered Amplifier (VDBA) Based Grounded Meminductor Emulator	Singroha V., Aggarwal B., Rai S.K.	Singroha, V., ECED, Netaji Subhas University of Technology, New Delhi, India; Aggarwal, B., ECED, Netaji Subhas University of Technology, New Delhi, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Electrical and Electronics Research	2022	2347470X
5990	Current Conveyor Transconductance Amplifier (CCTA) based Grounded Memcapacitor Emulator	Sinha A., Aggarwal B., Rai S.K., Gautam S.	Sinha, A., ECED, Netaji Subhas University of Technology, New Delhi, India; Aggarwal, B., ECED, Netaji Subhas University of Technology, New Delhi, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gautam, S., ECED, Netaji Subhas University of Technology, New Delhi, India	International Journal of Electrical and Electronics Research	2022	2347470X
5991	Hand Gesture Recognition Using 3D CNN and Computer Interfacing	Mansoor H., Kalra N., Goyal P., Bansal M., Wadhwa N.	Mansoor, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bansal, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Wadhwa, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Networks and Systems	2022	23673370
5992	Combating Fake News: Stakeholder Interventions and Potential Solutions	Gupta A., Kumar N., Prabhat P., Gupta R., Tanwar S., Sharma G., Bokoro P.N., Sharma R.	Gupta, A., Model Institute of Engineering and Technology, Kot Bhalwal, Department of Computer Science and Engineering, Jammu and Kashmir, Jammu, 181122, India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed to be University), Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Prabhat, P., Model Institute of Engineering and Technology, Kot Bhalwal, Department of Computer Science and Engineering, Jammu and Kashmir, Jammu, 181122, India; Gupta, R., Nirma University, Institute of Technology, Department of Computer Science and Engineering, Gujarat, Ahmedabad, 382481, India; Tanwar, S., Nirma University, Institute of Technology, Department of Computer Science and Engineering, Gujarat, Ahmedabad, 382481, India; Sharma, G., University of Johannesburg, Department of Electrical Engineering Technology, Johannesburg, 2006, South Africa; Bokoro, P.N., University of Johannesburg, Department of Electrical Engineering Technology, Johannesburg, 2006, South Africa; Sharma, R., University of Petroleum and Energy Studies, Centre for Inter-Disciplinary Research and Innovation, Dehradun, 248001, India	IEEE Access	2022	21693536
5993	Novel smectic phases and orientational order switching in two-dimensional liquid crystalline system	Bharti, Deb D.	Bharti, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Deb, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Liquid Crystals	2022	2678292
5994	Biomass suspension catalysed the generation of various alkyl esters from acid oil and virgin cottonseed oil	Sharma A., Melo J.S., Prakash R., Tejo Prakash N.	Sharma, A., University Institute of Biotechnology, Chandigarh University, Mohali, India; Melo, J.S., NA&BTD, Bhabha Atomic Research Centre, Mumbai, India; Prakash, R., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India; Tejo Prakash, N., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, India	Biocatalysis and Biotransformation	2022	10242422
5995	Electrochemical hydrogen storage: Achievements, emerging trends, and perspectives	Yadav S., Oberoi A.S., Mittal M.K.	Yadav, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Energy Research	2022	0363907X
5996	Human Muscle Synergy Recruitment and Variability Assessment for Walking Speed Prediction Module Design	Gupta R., Agarwal R.	Gupta, R., Electrical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India; Agarwal, R., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	IETE Journal of Research	2022	3772063
5997	A penalty based heuristic algorithm for solving bi-objective fire station location problem	Singh G., Singh A., Sharma M.K.	Singh, G., Chandigarh University, Department of AIT-CSE, Punjab, India; Singh, A., Bbsbec, Department of Applied Sciences, Punjab, Fatehgarh Sahib, India; Sharma, M.K., School of Mathematics, Thapar University, Patiala, India	2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
5998	TRANSITION OF EMOTIONS FROM THE NEGATIVELY EXCITED STATE TO POSITIVE UNEXCITED STATE: AN ERP PERSPECTIVE	Singh M.I., Singh M.	Singh, M.I., Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India; Singh, M., Thapar Institute of Engineering and Technology, P.O. Box 32, Patiala, 147004, India	Metrology and Measurement Systems	2022	8608229
5999	Thermal performance enhancement of basin-type solar still coupled with mini solar pond and shallow solar pond in closed-cycle mode	Kumar Singh S., Mittal M.K., Sharma D.	Kumar Singh, S., Mechanical Engineering Department, National Institute of Technology Hamirpur, Hamirpur, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Sharma, D., Mechanical Engineering Department, National Institute of Technology Hamirpur, Hamirpur, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2022	15567036
6000	Binary drone squadron optimization approaches for feature selection	Singh H., Sharma S., Khurana M., Kaur M., Lee H.	Singh, H., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Khurana, M., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kaur, M., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, South Korea; Lee, H., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, South Korea	IEEE Access	2022	21693536
6001	A Multi-attribute Decision Making Method for the Evaluation of Software Enterprise Based on T-Spherical Fuzzy Dombi Aggregation Information	Ullah K., Gul Z., Garg H., Mahmood T.	Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Gul, Z., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Mahmood, T., Department of Mathematics, International Islamic University Islamabad, Islamabad, 44000, Pakistan	Lecture Notes in Networks and Systems	2022	23673370
6002	Stroke Prediction System Using Machine Learning Algorithm	Purohit S., Chahar A., Banda A.R., Antony A., Suryawanshi A.S., Vanwari C.	Purohit, S., University Institute of Technology, RGPV, Bhopal, India; Chahar, A., RV College of Engineering, Bengaluru, India; Banda, A.R., Mahatma Gandhi Institute of Technology, Gandipet, India; Antony, A., JSPM's Rajarshi Shahu College of Engineering, Pune, India; Suryawanshi, A.S., SCTR'S Pune Institute of Computer Technology College in Pune, Pune, India; Vanwari, C., Thapar University, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2022	23674512
6003	Enhancement of heat transfer performance of a channel flow using modified delta Winglet vortex generator	Kumar V., Kumar R., Gupta S., Kataria K.K., Chaudhary S., Dangi S.	Kumar, V., Mechanical Engineering Department, UIET, MDU, Rohtak, India; Kumar, R., Mechanical Engineering Department, UIET, MDU, Rohtak, India; Gupta, S., Department of Mechanical and Automation Engineering, Maharaja Agrasen Institute of Technology, Delhi, India; Kataria, K.K., Director Technical Education Department, Haryana, Panchkula, India; Chaudhary, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dangi, S., Department of Production and Industrial Engineering, PEC, Chandigarh, India	Advances in Materials and Processing Technologies	2022	2374068X
6004	State-of-the-art in optimisation and heuristics to solve manufacturing scheduling problem	Bharti P., Jain S.	Bharti, P., Computer Science Engineering Department, Thapar University, Punjab, Patiala, India; Jain, S., Computer Science Engineering Department, Thapar University, Punjab, Patiala, India	International Journal of Operational Research	2022	17457645
6005	RerrFact: Reduced Evidence Retrieval Representations for Scientific Claim Verification	Rana A., Khanna D., Ghosal T., Singh M., Singh H., Rana P.S.	Rana, A., School of Business Informatics and Mathematics, University of Mannheim, Germany; Khanna, D., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, India; Ghosal, T., Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University, Czech Republic; Singh, M., Institute of Formal and Applied Linguistics, Faculty of Mathematics and Physics, Charles University, Czech Republic; Singh, H., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, India; Rana, P.S., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, India	CEUR Workshop Proceedings	2022	16130073
6006	Post Quantum Digital Signature Change in IOTA to Reduce Latency in Internet of Vehicles (IoV) Environments	Verma N., Kumari S., Jain P.	Verma, N., Electronics And Comm. Engineering Thapar Institute Of Eng. And Tech., Patiala, India; Kumari, S., Computer Science And Engineering Thapar Institute Of Eng. And Tech., Patiala, India; Jain, P., Electronics And Comm. Engineering Thapar Institute Of Eng. And Tech., Patiala, India	2022 International Conference on IoT and Blockchain Technology, ICIBT 2022	2022	
6007	A Novel Metaheuristic Optimization for Throughput Maximization in Energy Harvesting Cognitive Radio Network	Bakshi S., Sharma S., Khanna R.	Bakshi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Elektronika ir Elektrotehnika	2022	13921215
6008	A comprehensive survey on software-defined networking for smart communities	Chaudhary R., Aujla G.S., Kumar N., Chouhan P.K.	Chaudhary, R., Department of Mathematics and Computer Science, Karlstad University, Karlstad, Sweden; Aujla, G.S., Department of Computer Science, Durham University, Durham, United Kingdom; Kumar, N., Thapar Institute of Engineering and Technology, Punjab, India; Chouhan, P.K., British Telecom, London, UK, Afghanistan	International Journal of Communication Systems	2022	10745351

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6009	Impact of merger on stock returns and economic value added (EVA) of the acquiring firms: a study from Indian corporate sector	Gulati P.A., Garg S.	Gulati, P.A., Department of Finance, Institute of Management Technology, Ghaziabad, India; Garg, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Emerging Markets	2022	17468809
6010	Learning Based and Physical-layer Assisted Secure Computation Offloading in Vehicular Spectrum Sharing Networks	Ju Y., Chen Y., Cao Z., Wang H., Liu L., Pei Q., Kumar N.	Ju, Y., Xidian University, School Of Telecommunications Engineering, Shaanxi, Xi'an, China, Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China; Chen, Y., Xidian University, School Of Telecommunications Engineering, Shaanxi, Xi'an, China, Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China; Cao, Z., Xidian University, School Of Telecommunications Engineering, Shaanxi, Xi'an, China, Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China; Wang, H., Xidian University, School Of Telecommunications Engineering, Shaanxi, Xi'an, China, Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China; Liu, L., Xidian University, School Of Telecommunications Engineering, Shaanxi, Xi'an, China, Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China; Pei, Q., Xidian University, School Of Telecommunications Engineering, Shaanxi, Xi'an, China, Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China; Kumar, N., Guangzhou Institute Of Technology, Xidian University, Guangdong, Guangzhou, China, Thapar Institute Of Engineering And Technology, Patiala, India	INFOCOM WKSHPs 2022 - IEEE Conference on Computer Communications Workshops	2022	
6011	Secrecy Rate Maximization for THz-Enabled Femto Edge Users using Deep Reinforcement Learning in 6G	Sharma H., Budhiraja I., Kumar N., Tekchandani R.K.	Sharma, H., Thapar Institute Of Engineering And Technology, Computer Science And Engineering Department, Punjab, Patiala, India; Budhiraja, I., Bennett University, School Of Computer Science Engineering And Technology, Uttar Pradesh, Greater Noida, India; Kumar, N., Thapar Institute Of Engineering And Technology, Computer Science And Engineering Department, Punjab, Patiala, India; Tekchandani, R.K., Thapar Institute Of Engineering And Technology, Computer Science And Engineering Department, Punjab, Patiala, India	INFOCOM WKSHPs 2022 - IEEE Conference on Computer Communications Workshops	2022	
6012	Post-quantum cryptography techniques for secure communication in resource-constrained Internet of Things devices: A comprehensive survey	Kumari S., Singh M., Singh R., Tewari H.	Kumari, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., School of Computing, Engineering & Physical Sciences, University of the West of Scotland, Paisley, United Kingdom; Tewari, H., School of Computer Science and Statistics, Trinity College Dublin, Dublin, Ireland	Software - Practice and Experience	2022	380644
6013	Frequency stabilization in sustainable energy sources integrated power systems using novel cascade noninteger fuzzy controller	Sharma M., Saxena S., Prakash S., Dhundhara S., Arya Y.	Sharma, M., Department of Electrical Engineering, Baba Hira Singh Bhattal Institute of Engineering and Technology, Lehragaga, India; Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Dhundhara, S., Department of Basic Engg, COAET, CCS Haryana Agricultural University, Hisar, India; Arya, Y., Electrical Engineering Department, J.C. Bose University of Science and Technology, YMCA, Faridabad, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2022	15567036
6014	Analysis of the Pertinence of Indian Women's Institutions in Collaborative Research	Muhuri S., Kumari S., Namasudra S., Kadry S.	Muhuri, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumari, S., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Namasudra, S., Department of Computer Science and Engineering, National Institute of Technology Patna, Bihar, India; Kadry, S., Department of Applied Data Science, Noroff University College, Kristiansand, Norway	IEEE Transactions on Computational Social Systems	2022	2329924X
6015	giniUs@LT-EDI-ACL2022: Aasha: Transformers based Hope-EDI	Chinagundi B., Surana H.	Chinagundi, B., Thapar Institute of Engineering and Technology, Patiala, India; Surana, H., Indian Institute of Science Education and Research, Bhopal, India	LTEDI 2022 - 2nd Workshop on Language Technology for Equality, Diversity and Inclusion, Proceedings of the Workshop	2022	
6016	A Single-Stage SPV-Fed Reduced Switching Inverter-Based Sensorless Speed Control of im for Water Pumping Applications	Narendra A., Venkataramana N.N., Panda A.K., Tiwary N., Kumar A.	Narendra, A., Department of Electrical Engineering, National Institute of Technology, Odisha, Rourkela, India; Venkataramana, N.N., Department of Electrical Engineering, National Institute of Technology, Odisha, Rourkela, India; Panda, A.K., Department of Electrical Engineering, National Institute of Technology, Odisha, Rourkela, India; Tiwary, N., Department of Electrical Engineering, National Institute of Technology, Odisha, Rourkela, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Transactions on Electrical Energy Systems	2022	20507038
6017	Influence of process parameters on mechanical strength, build time, and material consumption of 3D printed polylactic acid parts	Singh J., Goyal K.K., Kumar R., Gupta V.	Singh, J., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India; Goyal, K.K., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India; Kumar, R., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab, India	Polymer Composites	2022	2728397

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6018	Perovskite-structured cobalt-free cathode materials for solid oxide fuel cells	Kaur P., Singh K.	Kaur, P., Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Thapar Institute of Engineering and Technology, Patiala, India	Recent Advances in Renewable Energy Technologies: Volume 2	2022	
6019	An AI-Based Nonparametric Filter Approach for Gearbox Fault Diagnosis	Kumar V., Mukherjee S., Verma A.K., Sarangi S.	Kumar, V., Indian Institute of Technology Patna, Department of Mechanical Engineering, Bihta, 801106, India; Mukherjee, S., Thapar Institute of Engineering & Technology, Department of Mechanical Engineering, Patiala, 147004, India; Verma, A.K., Agency for Science, Technology and Research, Advanced Remanufacturing and Technology Centre, Singapore, 637143, Singapore; Sarangi, S., Indian Institute of Technology Patna, Department of Mechanical Engineering, Bihta, 801106, India	IEEE Transactions on Instrumentation and Measurement	2022	189456
6020	Rice Disease Detection Using Artificial Intelligence and Machine Learning Techniques to Improve Agro-Business	Aggarwal S., Suchithra M., Chandramouli N., Sarada M., Verma A., Vetrithangam D., Pant B., Ambachew Adugna B.	Aggarwal, S., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Suchithra, M., Department of Computing Technologies, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, Chennai, India; Chandramouli, N., Department of Computer Science and Engineering, Vaageswari College of Engineering, Telangana, Karimnagar, 505527, India; Sarada, M., Department of Computer Science and Engineering, Priyadarshini Institute of Science and Technology for Women, Telangana, Peddathanda507003, India; Verma, A., University Center of Research and Development, Chandigarh University, Mohali, 140413, India; Vetrithangam, D., Department of Computer Science and Engineering, Chandigarh University, Mohali, 140413, India; Pant, B., Department of Computer Science and Engineering, Graphic Era Deemed to Be University, Bell Road, Clement Town, Uttarakhand, Dehradun, 248002, India; Ambachew Adugna, B., Department of Computer Science, Ambo University, Ambo, Ethiopia	Scientific Programming	2022	10589244
6021	Towards Explainable and Privacy-Preserving Artificial Intelligence for Personalisation in Autism Spectrum Disorder	Mahmud M., Kaiser M.S., Rahman M.A., Wadhwa T., Brown D.J., Shopland N., Burton A., Hughes-Roberts T., Mamun S.A., Ieracitano C., Tania M.H., Moni M.A., Islam M.S., Ray K., Hossain M.S.	Mahmud, M., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom, CIRC and MTIF, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Kaiser, M.S., IIT, Jahangirnagar University, Dhaka, Savar, 1342, Bangladesh; Rahman, M.A., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Wadhwa, T., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Brown, D.J., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom, CIRC and MTIF, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Shopland, N., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Burton, A., Department of Computer Science, Nottingham Trent University, Nottingham, NG11 8NS, United Kingdom; Hughes-Roberts, T., University of Derby, Kedleston Road, Derby, DE22 1GB, United Kingdom; Mamun, S.A., IIT, Jahangirnagar University, Dhaka, Savar, 1342, Bangladesh; Ieracitano, C., University Mediterranea of Reggio Calabria, Reggio Calabria, 89124, Italy; Tania, M.H., Department of Engineering Science, University of Oxford, Oxford, OX3 7DQ, United Kingdom; Moni, M.A., The University of Queensland, St Lucia, QLD 4072, Australia; Islam, M.S., Deakin University, Burwood, VIC 3125, Australia; Ray, K., School of Applied Sciences Physics, Amity University Rajasthan, Jaipur, India; Hossain, M.S., Department of CSE, University of Chittagong, Chittagong, Bangladesh	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2022	3029743
6022	Virtual Machine Migration for Green Cloud Computing	Sharma R., Bala A., Singh A.	Sharma, R., Thapar University, Computer Science and Engineering Department, Punjab, Patiala, India; Bala, A., Thapar University, Computer Science and Engineering Department, Punjab, Patiala, India; Singh, A., Thapar University, Computer Science and Engineering Department, Punjab, Patiala, India	IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics, ICDCECE 2022	2022	
6023	Liver Disease Prediction Using Ensemble Technique	Tanuku S.R., Kumar A.A., Somaraju S.R., Dattuluri R., Reddy M.V.K., Jain S.	Tanuku, S.R., Manipal University, Department of Computer and Communication Engineering, Manipal, India; Kumar, A.A., Cmr College, Department of Computer Science Engineering, Telangana, India; Somaraju, S.R., Jntua College of Engineering, Department of Electrical and Communication Technology, Kalikiri, India; Dattuluri, R., Ssn College of Engineering, Department of Computer Science Engineering, Maharashtra, Ahmedabad, India; Reddy, M.V.K., Bml Munjal University, Department of Computer Science Engineering, Haryana, India; Jain, S., Thapar Institute of Engineering and Technology, Department of Computer Science Engineering, Patiala, India	8th International Conference on Advanced Computing and Communication Systems, ICACCS 2022	2022	
6024	Prediction of Attention Deficit Hyperactivity Disorder (ADHD) using machine learning Techniques based on classification of EEG signal	Saini S., Rani R., Kalra N.	Saini, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Rani, R., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Kalra, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India	8th International Conference on Advanced Computing and Communication Systems, ICACCS 2022	2022	
6025	Analysis and Comparison of Impedance Source Inverter with different suitable PWM approaches	Maiti S., Sonar S., Ashraf S.	Maiti, S., Tiet Patiala, Eied, India; Sonar, S., Tiet Patiala, Eied, India; Ashraf, S., Tiet Patiala, Eied, India	Proceedings - 2022 6th International Conference on Intelligent Computing and Control Systems, ICICCS 2022	2022	
6026	Impedance Source Inverter with Maximum Gain	Ashraf S., Sonar S., Maiti S.	Ashraf, S., Tiet Patiala, Eied, India; Sonar, S., Tiet Patiala, Eied, India; Maiti, S., Tiet Patiala, Eied, India	Proceedings - 2022 6th International Conference on Intelligent Computing and Control Systems, ICICCS 2022	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6027	Stability analysis of Atangana-Baleanu fractional stochastic differential systems with impulses	Dhayal R., Gómez-Aguilar J.F., Torres-Jiménez J.	Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Gómez-Aguilar, J.F., CONACyT-Tecnológico Nacional de México/CENIDET, Interior Internado Palmira S/N, Cuernavaca, Mexico; Torres-Jiménez, J., Ingeniería Eléctrica-Maestría en Tecnologías de la Información, Tecnológico Nacional de México, Instituto Tecnológico Superior de Huauchinango, Huauchinango, Mexico	International Journal of Systems Science	2022	207721
6028	Time Scale Analysis for Prediction of Nusselt Number of Nanofluids Flowing Through Straight Tubes: An Experimental Study	Singh P., Sharma P., Gupta R., Wanchoo R.K.	Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Sharma, P., Sant Longowal Institute of Engineering & Technology, Punjab, Sangrur, India; Gupta, R., University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India; Wanchoo, R.K., University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, 160014, India	Iranian Journal of Chemistry and Chemical Engineering	2022	10219986
6029	Common fixed point theorems in intuitionistic Menger space using property E.A. and an application to Fredholm integral equations	Leila B.A., Berrah K., Oussaief T.E., Manro S.	Leila, B.A., Department of Mathematics and Computer Sciences, Larbi ben M'hidi University, Constantine St, Oum el Bouaghi, 04000, Algeria; Berrah, K., Department of Mathematics and Computer Sciences, Laboratory of Mathematics, Informatics and Systems (LAMIS), Larbi Tebessi University, Constantine St, Tebessa, 1200, Algeria; Oussaief, T.E., Department of Mathematics and Computer Sciences, Larbi ben M'hidi University, Constantine St, Oum el Bouaghi, 04000, Algeria; Manro, S., School of Mathematics and Computer Applications, Thapar University, Punjab, Patiala, 147004, India	Journal of Interdisciplinary Mathematics	2022	9720502
6030	Adaptive Neuro-Fuzzy Based Load Frequency Control in Presence of Energy Storage Devices	Jood P., Aggarwal S.K., Chopra V.	Jood, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Aggarwal, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chopra, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Intelligent Automation and Soft Computing	2022	10798587
6031	Investigation for mechanical properties of dissimilar friction stir welded joints of AA5083 and pure Cu	Ghangas G., Goyat V., Sirohi S., Sharma S.K., Dhull S.	Ghangas, G., SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, 201204, India; Goyat, V., SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, 201204, India; Sirohi, S., SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, 201204, India; Sharma, S.K., Thapar Institute of Engineering and Technology, Patiala, India; Dhull, S., Panipat Institute of Engineering and Technology, Samalkha, India	Materials Today: Proceedings	2022	22147853
6032	Modeling and analysis of articulated steering mechanism	Sreeharsha R., Kumar N., Kumar A., Tripathi J.P.	Sreeharsha, R., Department of Mining Machinery Engineering, IIT(ISM), Dhanbad, 826004, India; Kumar, N., Department of Mining Machinery Engineering, IIT(ISM), Dhanbad, 826004, India; Kumar, A., Department of Mining Machinery Engineering, IIT(ISM), Dhanbad, 826004, India; Tripathi, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
6033	Effect of pump leakage on slip and pressure loss in a hydraulic cylinder drive	Kumar Singh U., Tripathi J.P., Khanna K.	Kumar Singh, U., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Tripathi, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Materials Today: Proceedings	2022	22147853
6034	Sufficient optimality condition and duality of nondifferentiable minimax ratio constraint problems under (p, r) - ρ - (η, θ) -invexity	Kailey N., Sethi S., Saini S.	Kailey, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sethi, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Control and Cybernetics	2022	3248569
6035	An IoT and Machine Learning-Based Model to Monitor Perishable Food towards Improving Food Safety and Quality	Batool A., Ganguli S., Almashaqbeh H.A., Shafiq M., Vallikannu A.L., Sankaran K.S., Ray S., Sammy F.	Batool, A., School of Automation, Beijing Institute of Technology, Beijing, China; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Almashaqbeh, H.A., Okan University, Istanbul, Turkey; Shafiq, M., School of Artificial Intelligence, Neijiang Normal University, Sichuan, Neijiang, China; Vallikannu, A.L., Department of ECE, Hindustan Institute of Technology and Science, Chennai, India; Sankaran, K.S., Department of ECE, Hindustan Institute of Technology and Science, Chennai, India; Ray, S., Sunstone Eduversity, Gurugram, India; Sammy, F., Department of Information Technology, Dambi Dollo University, Welega, Dembi Dolo, Ethiopia	Journal of Food Quality	2022	1469428
6036	A Reactive Power Compensated Control Scheme for Solar-Assisted EV Fast-Charging Applications	Mishra A.K., Shukla S., Singh B., Al Durra A.	Mishra, A.K., Department Of Electrical And Instrumentation Engineering, Thapar Institute Of Engineering And Technology, Punjab, Patiala, India; Shukla, S., Department Of Electrical And Instrumentation Engineering, Thapar Institute Of Engineering And Technology, Punjab, Patiala, India; Singh, B., Department Of Electrical Engineering, Indian Institute Of Technology Delhi, New Delhi, India; Al Durra, A., Advanced Power & Energy Center, Eecs Department, Khalifa University, Abu Dhabi, United Arab Emirates	International Transactions on Electrical Energy Systems	2022	20507038
6037	Designing Secure and Efficient Biometric-Based Access Mechanism for Cloud Services	Panchal G., Samanta D., Das A.K., Kumar N., Choo K.-K.R.	Panchal, G., Indian Institute of Technology, Department of Computer Science and Engineering, Kharagpur, 721302, India; Samanta, D., Indian Institute of Technology, Department of Computer Science and Engineering, Kharagpur, 721302, India; Das, A.K., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Kumar, N., Institute of Engineering and Technology, Deemed Thapar University, Department of Computer Science and Engineering, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taiwan; Choo, K.-K.R., University of Texas at San Antonio, Department of Information Systems and Cyber Security, San Antonio, TX 78249, United States	IEEE Transactions on Cloud Computing	2022	21687161

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6038	Shear Resistance Behavior of Exterior Beam-Column Joint with Steel Fiber Reinforced Concrete	Gupta C., Rajendran S.C., Danie Roy A.B.	Gupta, C., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajendran, S.C., CSIR-Central Building Research Institute, Roorkee, 247667, India; Danie Roy, A.B., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Structural Integrity	2022	2522560X
6039	Hysteretic Performance of Precast Beam-Column Joint with Improved Energy Dissipation Capacity	Gaur H., Moka V.T.K., Rajendran S.C., Kwatra N.	Gaur, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Moka, V.T.K., Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Rajendran, S.C., CSIR-Central Building Research Institute, Roorkee, 247667, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Structural Integrity	2022	2522560X
6040	Analysis on road crash severity of drivers using machine learning techniques	Mittal M., Gupta S., Chauhan S., Saraswat L.K.	Mittal, M., INRIA, Nord Europe, Centre de Recherche en Informatique, Signal et Automatique de Lille (CRISTAL), Lille, France; Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chauhan, S., Department of Management, Prestige Institute of Management, Gwalior, India; Saraswat, L.K., Department of Computer Science and Engineering, Raj Kumar Goel Institute of Technology, Ghaziabad, India	International Journal of Engineering Systems Modelling and Simulation	2022	17559758
6041	Heuristic-Based Test Solution for 3D System on Chip	Vohra H., Manna M.S., Kaur I.	Vohra, H., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Manna, M.S., Electrical and Instrumentation Department, Sant Longowal Institute of Engineering and Technology, Longowal, India; Kaur, I., GREAT Alliance Foundation, New Delhi, India	Lecture Notes in Networks and Systems	2022	23673370
6042	Strategies to Synthesize Biodegradable Conducting Polymers	Kainth S., Sharma P., Diwan P.K.	Kainth, S., Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, P., Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, India	Conducting Polymers: Chemistries, Properties and Biomedical Applications	2022	
6043	An Overview of Soil Bacteria for CO2 Sequestration	Shahid M.K., Kashif A., Rout P.R., Choi Y.	Shahid, M.K., Research Institute of Environment and Biosystem, Chungnam National University, Daejeon, South Korea; Kashif, A., Department of Senior Healthcare, Eulji University, Daejeon, South Korea; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Choi, Y., Department of Environmental and IT Engineering, Chungnam National University, Daejeon, South Korea	Advances in Agricultural and Industrial Microbiology: Volume 1: Microbial Diversity and Application in Agroindustry	2022	
6044	Circular bioeconomy perspective of agro-waste-based biochar	Shahid M.K., Kashif A., Choi Y., Varjani S., Taherzadeh M.J., Rout P.R.	Shahid, M.K., Research Institute of Environment & Biosystem, Chungnam National University, Daejeon, South Korea; Kashif, A., Department of Senior Health Care, Eulji University, Daejeon, South Korea; Choi, Y., Department of Environmental & IT Engineering, Chungnam National University, Daejeon, South Korea; Varjani, S., Gujarat Pollution Control Board, Gujarat, Gandhinagar, India; Taherzadeh, M.J., Swedish Centre for Resource Recovery, University of Borås, Borås, Sweden; Rout, P.R., Department of Biotechnology, School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Biomass, Biofuels, Biochemicals: Circular Bioeconomy: Technologies for Waste Remediation	2022	
6045	A Framework for Masked-Image Recognition System in COVID-19 Era	Prakash V., Garg L., Fomicева E., Pineda S.V., Santos A.N., Bawa S.	Prakash, V., Thapar Institute of Engineering and Technology, Patiala, India; Garg, L., University of Malta, Msida, Malta; Fomicева, E., University of Malta, Msida, Malta; Pineda, S.V., University of Malta, Msida, Malta; Santos, A.N., University of Malta, Msida, Malta; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, India	Communications in Computer and Information Science	2022	18650929
6046	A Novel Deep Neural-based Music Recommendation Method considering User and Song Data	Singh J., Sajid M., Yadav C.S., Singh S.S., Saini M.	Singh, J., Bennett University, School of Engineering and Applied Sciences, Greater Noida, India; Sajid, M., Aligarh Muslim University, Department of Computer Science, Aligarh, India; Yadav, C.S., MeitY, Standardisation Testing and Quality Certification, Hyderabad, India; Singh, S.S., Thapar Institute of Engineering & Technology, Department of Computer Science and Engineering, Patiala, India; Saini, M., HCL Technology, Software Dev., Bangalore, India	2022 6th International Conference on Trends in Electronics and Informatics, ICOEI 2022 - Proceedings	2022	
6047	Application of Genetic Algorithms in Healthcare: A Review	Sharma S., Kumar V.	Sharma, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, V., Computer Science and Engineering, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India	Studies in Computational Intelligence	2022	1860949X
6048	D2BGAN: A Dark to Bright Image Conversion Model for Quality Enhancement and Analysis Tasks Without Paired Supervision	Bhattacharya J., Modi S., Gregorat L., Ramponi G.	Bhattacharya, J., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Modi, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gregorat, L., University of Trieste, Department of Engineering and Architecture, Trieste, 34127, Italy; Ramponi, G., University of Trieste, Department of Engineering and Architecture, Trieste, 34127, Italy	IEEE Access	2022	21693536
6049	Mehar approach to solve fuzzy linear fractional minimal cost flow problems	Bhatia T.K., Kumar A., Sharma M.K., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering Technology (Deemed to Be University), Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering Technology (Deemed to Be University), Punjab, Patiala, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering Technology (Deemed to Be University), Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, University of Manitoba, Manitoba, Winnipeg, Canada	Journal of Intelligent and Fuzzy Systems	2022	10641246
6050	Improved UHF-RFID Tag Design and Middleware Implementation for Effective Site Management and Access Control at Construction Site	Bansal A., Sharma S., Khanna R.	Bansal, A., Thapar Institute of Engineering and Technology, Department of ECED, Patiala, 147001, India; Sharma, S., Thapar Institute of Engineering and Technology, Department of ECED, Patiala, 147001, India; Khanna, R., Thapar Institute of Engineering and Technology, Department of ECED, Patiala, 147001, India	IEEE Journal of Radio Frequency Identification	2022	24697281

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6051	Picture fuzzy topological spaces and associated continuous functions	Razaq A., Masmali I., Garg H., Shuaib U.	Razaq, A., Department of Mathematics, Division of Science and Technology, University of Education, Lahore, 54770, Pakistan; Masmali, I., Department of Mathematics, College of Science, Jazan University, Jazan, 45142, Saudi Arabia; Garg, H., School of Mathematics Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Shuaib, U., Department of Mathematics, Government College University, Faisalabad, 38000, Pakistan	AIMS Mathematics	2022	24736988
6052	Incomplete Metric with the Application for Integral Equations of Volterra Type	Chandok S., Paunović L., Radenović S.	Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Paunović, L., Teacher Education Faculty, University in Priština-Kosovska Mitrovica, Nemanjina bb, Leosavic38218, Serbia; Radenović, S., Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, Beograd, 11120, Serbia	Mathematical Problems in Engineering	2022	1024123X
6053	Deep Learning Based Dual Channel Banana Grading System Using Convolution Neural Network	Raghavendra R.S., Ganguli S., Selvan P.T., Nayak M.M., Chaudhury S., Espina R.U., Ofori I.	Raghavendra, R.S., Department of Information and Communication Technology, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, 576104, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Selvan, P.T., Department of ECE, Adhiparasakthi Engineering College, Melmaruvathur, India; Nayak, M.M., Department of Mathematics, FE&T, ITER, Siksha 'o' Anusandhan, Deemed to Be University, Odisha, Bhubaneswar, India; Chaudhury, S., Department of CSE, University of Engineering and Management, Kolkata, India; Espina, R.U., Department of Robotics Engineering, Ateneo de Davao University, Davao City, Philippines; Ofori, I., Department of Environmental and Safety Engineering, University of Mines and Technology, Tarkwa, Ghana	Journal of Food Quality	2022	1469428
6054	VASE: Smart glasses for the visually impaired	Sharma S., Kalra N., Gupta L., Varma N., Agrawal S., Verma V.	Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, L., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Varma, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agrawal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Ambient Intelligence and Smart Environments	2022	18761364
6055	Optimization of the vendor's inventory model with multisupplier and multiretailer using fuzzy parameters	Garg H., Chandrasekar S., Srinivasan R., Deivanayagam Pillai N.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, India; Chandrasekar, S., Department of Mathematics, Queen Mary's College, University of Madras, Tamil Nadu, Chennai, India; Srinivasan, R., Department of Mathematics, Queen Mary's College, University of Madras, Tamil Nadu, Chennai, India; Deivanayagam Pillai, N., Department of Mathematics, Rajalakshmi Institute of Technology, Tamil Nadu, Chennai, India	International Journal of Intelligent Systems	2022	8848173
6056	Quartic Functional Equation: Ulam-Type Stability in β, p -Banach Space and Non-Archimedean β -Normed Space	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Mathematics	2022	23144629
6057	Comparison of Various Approaches for Evaluation and Overlay Design of a Concrete Pavement	Mishra S., Srivastava R.K., Kumar P., Chopra T.	Mishra, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Srivastava, R.K., Pavement Evaluation Division, CSIR—Central Road Research Institute (CRRI), New Delhi, India; Kumar, P., Pavement Evaluation Division, CSIR—Central Road Research Institute (CRRI), New Delhi, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Civil Engineering	2022	23662557
6058	Experimental Studies on Bio-bitumen Produced Using Charcoal from Coconut Shell Waste	Garg N., Chopra T., Chandrappa A.K.	Garg, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chandrappa, A.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Civil Engineering	2022	23662557
6059	Analysis of Falling Weight Deflectometer (FWD) Data of a Flexible Pavement Using Two Different Programs	Mishra S., Srivastava R.K., Kumar P., Chopra T.	Mishra, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Srivastava, R.K., Pavement Evaluation Division, CSIR—Central Road Research Institute (CRRI), New Delhi, India; Kumar, P., Pavement Evaluation Division, CSIR—Central Road Research Institute (CRRI), New Delhi, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Civil Engineering	2022	23662557
6060	Impact on Resilient Modulus Values of the Bituminous Mixture Using Different Standard Methods	Singh A., Tiwari D., Singh A.P., Chopra T., Chandrappa A.K.	Singh, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Tiwari, D., Pavement Evaluation Division, CSIR—Central Road Research Institute, New Delhi, India; Singh, A.P., Pavement Evaluation Division, CSIR—Central Road Research Institute, New Delhi, India; Chopra, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chandrappa, A.K., School of Infrastructure, Indian Institute of Technology, Bhubaneswar, India	Lecture Notes in Civil Engineering	2022	23662557
6061	Parameter estimation of four diode solar photovoltaic cell using hybrid algorithm	Singh B., Singla M.K., Nijhawan P.	Singh, B., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singla, M.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2022	15567036

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6062	Processing and characterization of SS316 based metal matrix composite casting through microwave hybrid heating	Pal J., Gupta D., Singh T.P.	Pal, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, T.P., LMT School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062
6063	Convergence and Stability of a Novel M-Iterative Algorithm with an Application	Kaur M., Chandok S.	Kaur, M., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Department of Mathematics, Lyallpur Khalsa College for Women, Guru Nanak Dev University, Jalandhar, 144001, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Mathematical Problems in Engineering	2022	1024123X
6064	Bi-LSTM-deep CNN for schizophrenia detection using MSST-spectral images of EEG signals	Jindal K., Upadhyay R., Padhy P.K., Longo L.	Jindal, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Padhy, P.K., Electronics and Communication Engineering Discipline, Indian Institute of Information Technology Design and Manufacturing Jabalpur, MP, Jabalpur, 482005, India; Longo, L., Applied Intelligence Research Centre, School of Computer Science, Technological University Dublin, Dublin, Ireland	Artificial Intelligence-Based Brain-Computer Interface	2022	
6065	A Tri-valued Trimmed Mean Decision-Based Filter for Removal of Salt-and-Pepper Noise	Sethi A., Garg B., Yadav R.P.	Sethi, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Garg, B., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Yadav, R.P., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes on Data Engineering and Communications Technologies	2022	23674512
6066	Dynamically Adaptive Switching Based Median Mean Filter for Removal of High Density Salt and Pepper Noise	Soni S., Raina D., Prakash J., Garg B., Yadav R.P.	Soni, S., Thapar Institute of Engineering and Technology, Patiala, India; Raina, D., Thapar Institute of Engineering and Technology, Patiala, India; Prakash, J., Thapar Institute of Engineering and Technology, Patiala, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2022	23674512
6067	Energy-Aware Multilevel Clustering Scheme for Underwater Wireless Sensor Networks	Chinnasamy S., Naveen J., Alphonse P.J.A., Dhasarathan C., Sambasivam G.	Chinnasamy, S., Madanapalle Institute Of Technology And Science, Madanapalle, 517325, India; Naveen, J., Christ (Deemed To Be University), Department Of Computer Science And Engineering, Bengaluru, 560060, India; Alphonse, P.J.A., National Institute Of Technology At Tiruchirappalli, Department Of Computer Applications, Tiruchirappalli, 620015, India; Dhasarathan, C., Thapar Institute Of Engineering And Technology, Department Of Computer Science And Engineering, Punjab, Patiala, 147004, India; Sambasivam, G., Isbat University, Faculty Of Information And Communication Technology, Kampala, Uganda	IEEE Access	2022	21693536
6068	Influence of process variables in the abrasive mixed electrical discharge machining of Ti–6Al–4V	Shard A., Singh Vinayak K., Deepshikha	Shard, A., Department of Mechanical Engineering, DAV University, Jalandhar, 144001, India; Singh Vinayak, K., Department of Physics DAV Sec-10, Chandigarh, 160001, India; Deepshikha, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
6069	Developer load balancing bug triage: Developed load balance	Yadav A., Baljon M., Mishra S., Singh S.K., Saxena S., Sharma S.K.	Yadav, A., Department of Computer Science & Engineering, Krishna Engineering College, Ghaziabad, India; Baljon, M., Department of Computer Engineering, College of Computer & Information Sciences, Majmaah University, Al Majma'ah, Saudi Arabia; Mishra, S., Department of Computer Engineering, College of Computer & Information Sciences, Majmaah University, Al Majma'ah, Saudi Arabia; Singh, S.K., Department of Computer Science and Engineering & Information Technology, JIIT, Noida, India; Saxena, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S.K., Department of Computer Engineering, College of Computer & Information Sciences, Majmaah University, Al Majma'ah, Saudi Arabia	Expert Systems	2022	2664720
6070	Using Static and Dynamic Malware Features to Perform Malware Ascription	Sraw J.S., Kumar K.	Sraw, J.S., Thapar Institute of Engineering and Technology, India; Kumar, K., Savitribai Phule Pune University, India	ECS Transactions	2022	19386737
6071	Healthcare Monitoring through Fog Computing: A Survey	Kaur N., Mittal A., Kumar A., Kumar R.	Kaur, N., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Mittal, A., Infosys Limited, Chandigarh, India; Kumar, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	ECS Transactions	2022	19386737
6072	Study of thermal decomposition parameters of UHMWPE sheet	Khattar N., Sharma P., Berar U., Diwan P.K.	Khattar, N., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Sharma, P., Virginia Tech Center for Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Berar, U., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Materials Today: Proceedings	2022	22147853

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6073	Systematic Analysis for Neck-length and Q-values on Cluster decay from Ba Isotopes	Majekodunmi J.T., Anwar K., Rana S., Jain N., Bhuyan M., Abdullah N., Kumar R.	Majekodunmi, J.T., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, University Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Anwar, K., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, University Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Abdullah, N., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, University Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ECS Transactions	2022	19386737
6074	Effect of shapes degrees of freedom on the fusion cross-sections of $^{160}\text{O}+^{154}\text{Sm}$ and $^{180}\text{O}+^{148}\text{Nd}$	Jain N., Rana S., Joshua T.M., Kumar R., Bhuyan M.	Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Joshua, T.M., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	ECS Transactions	2022	19386737
6075	Role Of Industry 4.0 Practices In Supply Chain Resilience	Singh D., Sharma A., Rana P.S.	Singh, D., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Sharma, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	ECS Transactions	2022	19386737
6076	Enhancement of Smart Agriculture using Internet of Things	Arora P., Arora N., Aayushi, Mehta K.	Arora, P., Thapar Institute of Engineering and Technology, India; Arora, N., MMIT& BM (MCA, Maharishi Markandeshwar (Deemed to be University), Ambala, India; Aayushi, MMIT& BM (MCA, Maharishi Markandeshwar (Deemed to be University), Ambala, India; Mehta, K., Chandigarh Group of Colleges, Landran, Punjab, Mohali, India	ECS Transactions	2022	19386737
6077	Investigation of astrophysical S-factor for $^{12}\text{C} + ^{16}\text{O}$ and $^{16}\text{O} + ^{16}\text{O}$ reactions within the relativistic mean-field approach	Rana S., Jain N., Joshua T.M., Bhuyan M., Kumar R.	Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Joshua, T.M., Institute of Engineering Mathematics, Faculty of Applied and Human Sciences, University Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ECS Transactions	2022	19386737
6078	Impact of pear-shape nuclei on fusion barrier and synthesis of new elements	Jain S., Kumar R., Sharma M.K.	Jain, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	ECS Transactions	2022	19386737
6079	An empirical investigation of determinants for adoption of C2C auction marketplaces	Chauhan S., Goyal S., Gupta P., Jaiswal M., Mehta N.	Chauhan, S., O.P. Jindal Global University, Sonapat Narela Road, Near Jagdishpur Village, Haryana, Sonapat, 131001, India; Goyal, S., LM Thapar School of Management, Dera Bassi Campus, Off Derabassi, Barwala Road, Mohali, 140507, India; Gupta, P., Management Development Institute Gurgaon, Block C, Sukhrali, Sector 17, Haryana, Gurugram, 122007, India; Jaiswal, M., Indian Institute of Management Sambalpur, Odisha, 768019, India; Mehta, N., Bryan School of Business and Economics, University of North Carolina at Greensboro, 1400 Spring Garden St, Greensboro, NC 27412, United States	International Journal of Business Information Systems	2022	17460972
6080	A Novel Channel Model and Optimal Power Control Schemes for Mobile mmWave Two-Tier Networks	Ghosh J., Haci H., Kumar N., Al-Utaibi K.A., Sait S.M., So-In C.	Ghosh, J., Tomsk Polytechnic University, School of Computer Science and Robotics, Tomsk, 634050, Russian Federation; Haci, H., Near East University, Department of Electrical and Electronics Engineering, Nicosia, 1403, Turkey; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taichung City, 413, Taiwan, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, 248007, India, King Abdulaziz University, Department of Computer Science and Information Systems, Jeddah, 22254, Saudi Arabia; Al-Utaibi, K.A., University of Ha'il, Computer Science and Software Engineering Department, Ha'il, 53962, Saudi Arabia; Sait, S.M., King Fahd University of Petroleum & Minerals, Department of Computer Engineering, Dhahran, 31261, Saudi Arabia; So-In, C., Khon Kaen University, College of Computing, Department of Computer Science, Khon Kaen, 40002, Thailand	IEEE Access	2022	21693536

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6081	Relativistic R3Y Nucleon–Nucleon Potential: Decay Characteristics of ¹²⁴ Ba Isotope Within the Preformed Cluster Decay Approach	Majekodunmi J.T., Rana S., Jain N., Anwar K., Abdullah N., Kumar R., Bhuyan M.	Majekodunmi, J.T., Faculty of Applied and Human Sciences, Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Anwar, K., Faculty of Applied and Human Sciences, Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Abdullah, N., Faculty of Applied and Human Sciences, Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Department of Physics, Faculty of Science, Center for Theoretical and Computational Physics, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam	Lecture Notes in Networks and Systems	2022	23673370
6082	Relativistic Mean-Field Treatment to the Fusion Cross-Section of the Reaction ¹² C + ²⁰ Ne Using Hill–Wheeler and Morse Transmission Coefficients	Rana S., Majekodunmi J.T., Jain N., Bhuyan M., Kumar R., Patra S.K.	Rana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Majekodunmi, J.T., Faculty of Applied and Human Sciences, Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Department of Physics, Faculty of Science, Center for Theoretical and Computational Physics, University of Malaya, Kuala Lumpur, 50603, Malaysia, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Sainik School, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400085, India	Lecture Notes in Networks and Systems	2022	23673370
6083	Computational fluid dynamics-based disease transmission modeling of SARS-CoV-2 Intensive Care Unit	Prajapati S., Mehta N., Chharia A., Upadhyay Y.	Prajapati, S., Department of Mechanical Engineering, National Institute of Technology, TR, Agartala, 799046, India; Mehta, N., Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, GJ, Surat, 395007, India; Chharia, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, PB, Patiala, 147004, India, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, PB, Patiala, 147004, India; Upadhyay, Y., Department of Mechanical Engineering, Zakir Husain College of Engineering & Technology, AMU, India	Materials Today: Proceedings	2022	22147853
6084	Prediction of head loss for fly ash-water slurry flow through 90° bend pipe using Computational fluid dynamics	Pradhan A.R., Kumar S., Kumar S., Singh H., Kumar K., Singh G.	Pradhan, A.R., National Institute of Technology, Jharkhand, Jamshedpur, 831014, India; Kumar, S., National Institute of Technology, Jharkhand, Jamshedpur, 831014, India; Singh, H., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, K., K.R. Mangalam University, Haryana, Gurugram, 122103, India; Singh, G., Chandigarh University, Punjab, Patiala, 140413, India	Materials Today: Proceedings	2022	22147853
6085	Connected Degree of Fuzzifying Matroids	Xin X., Li S.G., Garg H., Liu H., Zhao J.	Xin, X., Department of Mathematics, Tianjin University of Technology, Tianjin, 300384, China; Li, S.G., College of Mathematics and Statistics, Shaanxi Normal University, Xi'an, 710062, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Liu, H., School of Science, Guangxi University of Nationalities, Nanning, 530006, China; Zhao, J., School of Psychology, Shaanxi Normal University, Xi'an, 710062, China	Journal of Mathematics	2022	23144629
6086	Numerical analysis of unsteady flow through unsaturated soil of uniform sized spheres with distinct packing arrangements	Singh M., Singh C., Gangacharyulu D.	Singh, M., Department of Mechanical Engg., Chandigarh Engineering College, Landran, Punjab, Mohali, India; Singh, C., Department of Mechanical Engg., Punjabi University, Punjab, Patiala, India; Gangacharyulu, D., Department of Chemical Engg., Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Materials Today: Proceedings	2022	22147853
6087	A Simplified Parameter Adaptive DCPCNN Based Medical Image Fusion	Agrawal C., Yadav S.K., Singh S.P., Panigrahy C.	Agrawal, C., PDPM Indian Institute of Information Technology, Design and Manufacturing, Madhya Pradesh, Jabalpur, 482005, India; Yadav, S.K., GLA University, Uttar Pradesh, Mathura, 281406, India; Singh, S.P., GLA University, Uttar Pradesh, Mathura, 281406, India; Panigrahy, C., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Networks and Systems	2022	23673370
6088	Robotic Process Automation use cases in academia and early implementation experiences	Gupta A., Prabhat P., Sawhney S., Gupta R., Tanwar S., Kumar N., Shabaz M.	Gupta, A., Model Institute of Engineering and Technology, J&K, Jammu, India; Prabhat, P., Model Institute of Engineering and Technology, J&K, Jammu, India; Sawhney, S., Model Institute of Engineering and Technology, J&K, Jammu, India; Gupta, R., Nirma University, Ahmedabad, India; Tanwar, S., Nirma University, Ahmedabad, India; Kumar, N., Thapar University, Patiala, India; Shabaz, M., Model Institute of Engineering and Technology, J&K, Jammu, India, Arba Minch University, Arba Minch, Ethiopia	IET Software	2022	17518806
6089	Green Energy-Based Efficient IoT Sensor Network for Small Farms	Mishra A., Singh S., Verma K., Bhatia P., Ghosh M., Shacham-Diamand Y.	Mishra, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhatia, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ghosh, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shacham-Diamand, Y., School of Electrical Engineering, Tel Aviv, Israel	Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNCS	2022	18678211

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6090	Optimization of machining parameters during application of Al2O3 nano-cutting fluid at different flow rates	Sharma A., Singh R.C., Singari R.M., Vageesha S.V., Bhandarkar S.L., Chaudhary S.	Sharma, A., G B Pant DSEU Okhla-III Campus, New Delhi, 110020, India; Singh, R.C., Delhi Technological University, Delhi110042, India; Singari, R.M., Delhi Technological University, Delhi110042, India; Vageesha, S.V., G B Pant DSEU Okhla-III Campus, New Delhi, 110020, India; Bhandarkar, S.L., Guru Gobind Singh Indraprastha University, Delhi110088, India; Chaudhary, S., Thapar Institute of Engineering and Technology, Patiala, India	Materials Today: Proceedings	2022	22147853
6091	Predictive role of polymorphic variants of phase II drug metabolising enzyme in modulating toxicity in North Indian lung cancer patients undergoing chemotherapy	Walia H., Sharma P., Singh N., Sharma S.	Walia, H., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Xenobiotica	2022	498254
6092	Morphology Effect of One-Dimensional MnO2 Nanostructures on Heteroatom-Doped Carbon Dot-Based Biosensors for Selective Detection of Glutathione	Sohal N., Maity B., Basu S.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Applied Bio Materials	2022	25766422
6093	On Stability of Continuous Cooperative Static Games with Possibilistic Parameters in the Objective Functions	Garg H., Edalatpanah S.A., El-Morsy S., El-Wahed Khalifa H.A.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Edalatpanah, S.A., Department of Applied Mathematics, Ayandegan Institute of Higher Education, Tonekabon, Iran; El-Morsy, S., Basic Science Department, Nile Higher Institute for Engineering and Technology, Mansoura, 35511, Egypt; Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya51951, Saudi Arabia; El-Wahed Khalifa, H.A., Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya51951, Saudi Arabia, Department of Operations Research, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, 12613, Egypt	Computational Intelligence and Neuroscience	2022	16875265
6094	A Survey Towards Decision Support System on Smart Irrigation Scheduling Using Machine Learning approaches	Saggi M.K., Jain S.	Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering & Technology, Patiala, India	Archives of Computational Methods in Engineering	2022	11343060
6095	Spherical Fuzzy Soft Topology and Its Application in Group Decision-Making Problems	Garg H., Perveen P A F., John S.J., Perez-Dominguez L.	Garg, H., School Of Mathematics, Thapar Institute Of Engineering And Technology, Deemed University, Punjab, Patiala, 147004, India; Perveen P A, F., Department Of Mathematics, National Institute Of Technology Calicut, Kerala, Calicut, 673 601, India; John, S.J., Department Of Mathematics, National Institute Of Technology Calicut, Kerala, Calicut, 673 601, India; Perez-Dominguez, L., Departamento De Ingenieria Industrial Y Manufactura, Universidad Autonoma De Ciudad Juarez, Juarez, Mexico	Mathematical Problems in Engineering	2022	1024123X
6096	Sentiment analysis of Twitter data during Farmers' Protest in India through Machine Learning	Singh A., Kalra N., Singh A., Sharma S.	Singh, A., Thapar Institute of Engineering Technology, Dept. of Computer Science and Engineering, Patiala, India; Kalra, N., Thapar Institute of Engineering Technology, Dept. of Computer Science and Engineering, Patiala, India; Singh, A., Thapar Institute of Engineering Technology, Dept. of Computer Science and Engineering, Patiala, India; Sharma, S., Thapar Institute of Engineering Technology, Dept. of Computer Science and Engineering, Patiala, India	Proceedings of the 2nd 2022 International Conference on Computer Science and Software Engineering, CSASE 2022	2022	
6097	A theoretical and mathematical study on the importance of petroleum derivatives in the production of sanitizer based products	Gupta R., Sharma M., Jangir V., Gautam A.K., Chandra A., Arya R.K.	Gupta, R., Department of Chemical Engineering, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Sharma, M., Department of Chemical Engineering, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Jangir, V., Department of Chemical Engineering, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Gautam, A.K., Department of Chemical Engineering, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Punjab, Jalandhar, 144011, India	Materials Today: Proceedings	2022	22147853
6098	Computational modeling and conjugate heat transfer study for in situ design of artificial porous media at varied orientations	Prajapati S., Chharia A., Mehta N., Yadav S.	Prajapati, S., Department of Mechanical Engineering, National Institute of Technology, TR, Agartala, 799046, India; Chharia, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, PB, Patiala, 147004, India, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, PB, Patiala, 147004, India; Mehta, N., Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, GJ, Surat, 395007, India; Yadav, S., Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, GJ, Surat, 395007, India	Materials Today: Proceedings	2022	22147853
6099	Synchronized Operation of Grid Power, Solar Power, and Battery for Smart Energy Management	Kumar P., Thanki D.V.	Kumar, P., Thapar University, India; Thanki, D.V., Lovely Professional University, India	Research Anthology on Smart Grid and Microgrid Development	2022	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6100	Polymatic plastics & packaging – market deepening versus geography expansion	Mathur D., Narayanamurthy G., Sengupta T.	Mathur, D., Department of Management Studies, LM Thapar School of Management, Patiala, India; Narayanamurthy, G., Department of Operations and Supply Chain Management, University of Liverpool Management School, Liverpool, United Kingdom; Sengupta, T., Department of Operations Management, Indian Institute of Management Ranchi, Ranchi, India	Emerald Emerging Markets Case Studies	2022	20450621
6101	Demand Response Mechanism in User-Centric Markets Integrated with Electric Vehicles	Sharma S., Ali I., Aftab M.A.	Sharma, S., Jamia Millia Islamia, Department of Electrical Engineering, New Delhi, 110025, India; Ali, I., Jamia Millia Islamia, Department of Electrical Engineering, New Delhi, 110025, India; Aftab, M.A., Thapar Institute of Engineering and Technology, Department of Electrical Engineering, Punjab147004, India	2022 IEEE Delhi Section Conference, DELCON 2022	2022	
6102	CPU Burst-Time Estimation using Machine Learning	Samal P., Jha S., Goyal R.K.	Samal, P., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department (CSED), Patiala, India; Jha, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department (CSED), Patiala, India; Goyal, R.K., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department (CSED), Patiala, India	2022 IEEE Delhi Section Conference, DELCON 2022	2022	
6103	User Classification and Stock Market-Based Recommendation Engine Based on Machine Learning and Twitter Analysis	Achyutha P.N., Chaudhury S., Bose S.C., Kler R., Surve J., Kaliyaperumal K.	Achyutha, P.N., Department of Computer Science and Engineering, East West Institute of Technology, Bangalore, India; Chaudhury, S., Department of Computer Science and Engineering, University of Engineering and Management, Kolkata, India; Bose, S.C., Thapar Institute of Engineering and Technology, Patiala, India; Kler, R., Motilal Nehru College (Evening), University of Delhi, Delhi, India; Surve, J., Department of Information Technology, International Institute of Information Technology, Hinjewadi, India; Kaliyaperumal, K., IT@IoT-HH Campus, Ambo University, Ambo, Ethiopia	Mathematical Problems in Engineering	2022	1024123X
6104	Mechanical and biological behaviour of additive manufactured biomimetic biodegradable orthopaedic cortical screws	Agarwal R., Gupta V., Singh J.	Agarwal, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Rapid Prototyping Journal	2022	13552546
6105	Effect of activated fluxes during welding of dissimilar stainless steels using semi-automatic setup	Kumar V., Bera T.K.	Kumar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Bera, T.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Materials and Manufacturing Processes	2022	10426914
6106	HIGHER ORDER SYMMETRIC DUALITY FOR MULTIOBJECTIVE FRACTIONAL PROGRAMMING PROBLEMS OVER CONES	Kaur A., Sharma M.K.	Kaur, A., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, 147004, India	Yugoslav Journal of Operations Research	2022	3540243
6107	Modelling of Indian vendors posture using rapid upper limb assessment (RULA)	Rathore S., Khan K.L.A., Agrawal A.P., Chalisgaonkar R., Raj Singh R.K., Katiyar M.	Rathore, S., Department of Mechanical Engineering, KIET Group of Institutions, UP, Ghaziabad, 201206, India; Khan, K.L.A., Department of Mechanical Engineering, KIET Group of Institutions, UP, Ghaziabad, 201206, India; Agrawal, A.P., Department of Mechanical Engineering, Noida Institute of Engineering and Technology, UP, Greater Noida, 201306, India; Chalisgaonkar, R., Department of Mechanical Engineering, KIET Group of Institutions, UP, Ghaziabad, 201206, India; Raj Singh, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Katiyar, M., Department of Mechanical Engineering, KIET Group of Institutions, UP, Ghaziabad, 201206, India	Materials Today: Proceedings	2022	22147853
6108	Directional coupler based on metal-insulator-metal plasmonic waveguide	Mishra M., Takhar V., Jana S.	Mishra, M., Department of Physics, Mody University of Science and Technology, SLAS, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Takhar, V., Department of Physics, Mody University of Science and Technology, SLAS, Lakshmanagarh, Rajasthan, Sikar, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Optoelectronics and Advanced Materials	2022	14544164
6109	Complex System Models and Their Application in Industrial Cluster and Innovation Systems	Yi S., Zaoli Y., Xuemei X., Harish G.	Yi, S., Harbin Engineering University, Harbin, China; Zaoli, Y., Beijing University of Technology, Beijing, China; Xuemei, X., Tongji University, Tongji, China; Harish, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Complexity	2022	10762787
6110	Digitized Frequency Modulated Thermal Wave Imaging for Testing and Evaluation of Steel Materials	Mulaveesala R., Dua G., Arora V.	Mulaveesala, R., Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Dua, G., Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Arora, V., Indian Institute of Information Technology Una, Himachal Pradesh, Una, India	Lecture Notes in Mechanical Engineering	2022	21954356
6111	Highly Depth Resolved Coded Thermal Wave Imaging Technique for Infrared Non-destructive Testing and Evaluation	Mulaveesala R., Arora V., Dua G.	Mulaveesala, R., Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Arora, V., Indian Institute of Information Technology Una, Distt., Himachal Pradesh, Una, Shimla, India; Dua, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Mechanical Engineering	2022	21954356

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6112	A Novel Analytical Approach for Nondestructive Testing and Evaluation of Bone Implants Using Frequency Modulated Thermal Wave Imaging	Sharma A., Dua G., Arora V., Kumar N., Mulaveesala R.	Sharma, A., Center for Biomedical Engineering, Indian Institution of Technology Ropar, Bara Phool, Birla Seed Farms, Punjab, Rupnagar, 140001, India; Dua, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Arora, V., Indian Institute of Information Technology Una Transit Campus-II: Village Chandpur, Tehsil Haroli, Himachal Pradesh, Una, 177220, India; Kumar, N., Center for Biomedical Engineering, Indian Institution of Technology Ropar, Bara Phool, Birla Seed Farms, Punjab, Rupnagar, 140001, India, Department of Mechanical Engineering, Indian Institution of Technology Ropar, Bara Phool, Birla Seed Farms, Punjab, Rupnagar, 140001, India; Mulaveesala, R., Manpower Development in Instrument Technology (MDIT) Laboratory, Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Lecture Notes in Mechanical Engineering	2022	21954356
6113	Comparative analysis between aluminium and steel based bicycle crank using numerical simulation	Nayak A., Prakash Tripathi J., Dewangan S., Kumar P.	Nayak, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Prakash Tripathi, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dewangan, S., Department of Mechanical Engineering, Manipal University Jaipur, Rajasthan303007, India; Kumar, P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
6114	Impact of COVID-19 on volatility of BSE Sensex stock index	Bhullar P.S., Gupta P.K., Bhatnagar D.	Bhullar, P.S., University Business School, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Gupta, P.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Bhatnagar, D., University School of Business Studies, Panjabi University, Talwandi Sabo Campus, Patiala, India	International Journal of Electronic Finance	2022	17460069
6115	A Blockchain-based Framework for Privacy Preservation of Electronic Health Records (EHRs)	Kaur J., Rani R., Kalra N.	Kaur, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Transactions on Emerging Telecommunications Technologies	2022	21613915
6116	PVDF-graphene-BaTiO3 composite for 4D applications	Sharma R., Singh R., Batish A.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	4D Printing: Fundamentals and Applications	2022	
6117	On 3D printed multibleneded and hybrid-blended poly(lactic)acid composite matrix for self-assembly	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, CT University, Ludhiana, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	4D Printing: Fundamentals and Applications	2022	
6118	Two-way programming of secondary recycled poly(lactic)acid composite matrix using magnetic field as stimulus	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, CT University, Ludhiana, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	4D Printing: Fundamentals and Applications	2022	
6119	IoT-Enabled Framework for Early Detection and Prediction of COVID-19 Suspects by Leveraging Machine Learning in Cloud	Mir M.H., Jamwal S., Mehbodniya A., Garg T., Iqbal U., Samori I.A.	Mir, M.H., Department of Computer Sciences, Baba Ghulam Shah Badshah University, Jammu and Kashmir, Rajouri, 185234, India; Jamwal, S., Department of Computer Sciences, Baba Ghulam Shah Badshah University, Jammu and Kashmir, Rajouri, 185234, India; Mehbodniya, A., Department of Electronics and Communication Engineering, Kuwait College of Science and Technology (KCST), Doha Area, 7th Ring Road, Kuwait; Garg, T., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Iqbal, U., National Institute of Technology Srinagar, JandK, Srinagar, India; Samori, I.A., School of Engineering Sciences, University of Ghana, Accra, Ghana	Journal of Healthcare Engineering	2022	20402295
6120	Coal-derived graphene quantum dots with a Mn ²⁺ /Mn ⁷⁺ nanosensor for selective detection of glutathione by a fluorescence switch-off-on assay	Kundu A., Maity B., Basu S.	Kundu, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Patiala, 147004, India	New Journal of Chemistry	2022	11440546
6121	An investigation into vibrational behaviour of the functionally graded carbon nanotube reinforced shell structure	Dhiman N.K., Susheel C., Sharma A., Salodkar S.M.	Dhiman, N.K., Department of Mechanical Engineering, Punjab Engineering College (Deemed To Be University), Chandigarh, 160012, India; Susheel, C., Department of Mechanical Engineering, Punjab Engineering College (Deemed To Be University), Chandigarh, 160012, India; Sharma, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Salodkar, S.M., Department of Mechanical Engineering, Punjab Engineering College (Deemed To Be University), Chandigarh, 160012, India	Materials Today: Proceedings	2022	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6122	Drummondin E and Flinderole B are potential inhibitors of RNA-dependent RNA polymerase of SARS-CoV-2: an in silico study	Akhtar N., Verma H., Silkari O.M., Upadhyay A.K., Kaushik V., Amin-UI Mannan M.	Akhtar, N., Department of Molecular Biology and Genetic Engineering, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar-Delhi, India; Verma, H., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Punjab, Patiala, India; Silkari, O.M., Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Punjab, Patiala, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaushik, V., Department of Molecular Biology and Genetic Engineering, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar-Delhi, India; Amin-UI Mannan, M., Department of Molecular Biology and Genetic Engineering, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Jalandhar-Delhi, India	Biotechnologia	2022	8607796
6123	Dynamic modeling and analysis of a hydro-mechanical power transmission system	Kumar R., Kumar D., Mahato A.C., Tripathi J.P.	Kumar, R., Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, 835215, India; Kumar, D., Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, 835215, India; Mahato, A.C., Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, 835215, India; Tripathi, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab147004, India	Materials Today: Proceedings	2022	22147853
6124	Application Research of Time Delay System Control in Mobile Sensor Networks Based on Deep Reinforcement Learning	Zhu W., Garg T., Raza S., Lalar S., Barak D.D., Rahmani A.W.	Zhu, W., Department of Electrical Engineering, Anhui Technical College of Mechanical and Electrical Engineering, Wuhu, Anhui, 241002, China; Garg, T., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Raza, S., Quaid-e-Awam University of Engineering, Science and Technology, Larkana, Pakistan; Lalar, S., Department of Computer Science and Applications, Kurukshetra University, Kurukshetra, India; Barak, D.D., Department of Computer Science and Engineering, Vaish College of Engineering, Haryana, Rohtak, India; Rahmani, A.W., Isteqlal Institute of Higher Education, Kabul, Afghanistan	Wireless Communications and Mobile Computing	2022	15308669
6125	Cloud- and Edge-based ERP systems for Industrial Internet of Things and Smart Factory	Prakash V., Savaglio C., Garg L., Bawa S., Spezzano G.	Prakash, V., Thapar Institute of Engineering and Technology, Patiala, India; Savaglio, C., Institute for High Performance Computing and Networking (ICAR), National Research Council, Italy; Garg, L., University of Malta, Msida, Malta; Bawa, S., Thapar Institute of Engineering and Technology, Patiala, India; Spezzano, G., Institute for High Performance Computing and Networking (ICAR), National Research Council, Italy	Procedia Computer Science	2022	18770509
6126	An Efficient, Low-Cost, and Reliable Monostatic Microwave Imaging (MWI) Approach for the Detection of Breast Tumor Using an Ultra-Wideband Dielectric Resonator Antenna	Kaur G., Kaur A.	Kaur, G., Thapar University Patiala, Patiala, India; Kaur, A., Thapar University Patiala, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2022	23674512
6127	A Fast and Effective method for Assessing Insulation Condition Based on Time Domain Spectroscopy Data	Mishra D., Pandey S., Baral A.	Mishra, D., Indian Maritime University, School of Marine Engineering, Kolkata, India; Pandey, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Baral, A., Indian Institute of Technology (Indian School of Mines), Electrical Engineering Department, Dhanbad, India	2022 International Conference for Advancement in Technology, ICONAT 2022	2022	
6128	Local RBF-FD-Based Mesh-free Scheme for Singularly Perturbed Convection-Diffusion-Reaction Models with Variable Coefficients	Jiwari R., Singh S., Singh P.	Jiwari, R., Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Singh, S., Department of Mathematics, Graphic Era Hill University, Dehradun, 248002, India; Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Mathematics	2022	23144629
6129	CFD analysis of an exhaust manifold for emission reduction	Bral P., Prakash Tripathi J., Dewangan S., Mahato A.C.	Bral, P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Prakash Tripathi, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dewangan, S., Department of Mechanical Engineering, Manipal University Jaipur, Rajasthan303007, India; Mahato, A.C., Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, 835215, India	Materials Today: Proceedings	2022	22147853
6130	Effect of material removal characteristics with varying incident angle in fluid jet polishing process	Choudhary S., Kumar Duvedi R., Singh Saini J.	Choudhary, S., Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, 147004, India, Ajay Kumar Garg Engineering College, Ghaziabad, 201009, India; Kumar Duvedi, R., Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, 147004, India; Singh Saini, J., Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
6131	Methods for multi-attribute decision making, pattern recognition and clustering based on T-spherical fuzzy information measures	Ullah K., Ali Z., Mahmood T., Garg H., Chinram R.	Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Pakistan; Ali, Z., Department of Mathematics Statistics, International Islamic University Islamabad, Pakistan; Mahmood, T., Department of Mathematics Statistics, International Islamic University Islamabad, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Punjab, Patiala, India; Chinram, R., Algebra and Applications Research Unit, Division of Computational Science, Faculty of Science, Prince of Songkla University, Songkhla, Hat Yai, Thailand	Journal of Intelligent and Fuzzy Systems	2022	10641246
6132	Study on multi-objective nonlinear programming problem with rough parameters	Garg H., Alodhaibi S.S., Khalifa H.A.E.-W.	Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Punjab, Patiala, India; Alodhaibi, S.S., Department of Mathematics, College of Science and Arts, Qassim Univesity, ArRass, Saudi Arabia; Khalifa, H.A.E.-W., Department of Operations Research, Faculty of Graduate Studies for Statistical Research, Cairo University Giza, Egypt, Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya, Saudi Arabia	Journal of Intelligent and Fuzzy Systems	2022	10641246

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6133	An extended WASPAS approach for teaching quality evaluation based on pythagorean fuzzy reducible weighted Maclaurin symmetric mean	Wei D., Rong Y., Garg H., Liu J.	Wei, D., School of Computer and Software Engineering, Xihua University, Sichuan, Chengdu, China; Rong, Y., School of Management, Shanghai University, Baoshan District, Shanghai, China; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Punjab, Patiala, India; Liu, J., School of Computing, Ulster University at Jordanstown Campus, Northern Ireland, Belfast, United Kingdom	Journal of Intelligent and Fuzzy Systems	2022	10641246
6134	An improved parasitism predation algorithm for frequency regulation of a virtual inertia control based AC microgrid	Khadanga R.K., Das D., Kumar A., Panda S.	Khadanga, R.K., Department of Electrical Electronics Engineering, Centurion University of Technology and Managemen, Odisha, Bhubaneswar, 752050, India; Das, D., Department of Electrical Engineering, Government College of Engineering, Odisha, Kalahandi, 766002, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Panda, S., Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, Burla, 768018, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2022	15567036
6135	A novel black widow optimization approach to improve the precision in parameter estimation problem of solar photovoltaic electrical model	Chauhan A., Prakash S.	Chauhan, A., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India; Prakash, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India	Environmental Progress and Sustainable Energy	2022	19447442
6136	Modeling of the Liouville–Green method to approximate the mechanical waves in functionally graded and piezo material with a comparative study	Ansari A.Z., Saeed A.M., Singhal A., Tiwari R., Shujat F., Kumar B.	Ansari, A.Z., Department of Mathematics, Faculty of Science, Islamic University of Madinah, Madinah, Saudi Arabia; Saeed, A.M., Department of Mathematics, College of Science, Qassim University, Buraydah, Saudi Arabia; Singhal, A., School of Sciences, Christ (Deemed to be University), NCR, Delhi, India; Tiwari, R., Nitishwar College, Babasaheb Bhimrao Ambedkar University, Muzaffarpur, India; Shujat, F., Department of Mathematics, Faculty of Science, Taibah University, Madinah, Saudi Arabia; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Waves in Random and Complex Media	2022	17455030
6137	Performance study of ADRC and PID for concurrent Frequency-Voltage Control of Electric Vehicle Incorporated Hybrid Power System	Safiullah S., Rahman A., Asim Aftab M., Hussain S.M.S.	Safiullah, S., EED, NIT, Jammu & Kashmir, Srinagar, India; Rahman, A., EED, NIT, Jammu & Kashmir, Srinagar, India; Asim Aftab, M., EIED, Thapar Institute of Engg. and Technology, Patiala, India; Hussain, S.M.S., Department of Computer Science, NUS, Singapore, Singapore	PESGRE 2022 - IEEE International Conference on "Power Electronics, Smart Grid, and Renewable Energy"	2022	
6138	Tribo erosion analysis of WC + TiO2 HVOF coating on SS404	Haque U., Singh G., Singh H., Kumari K., Kumar S.	Haque, U., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Singh, G., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Singh, H., Department of Mechanical Engineering, Chandigarh University, Mohali, India; Kumari, K., Department of Electronic and Communication Engineering, Thapar University Patiala, Punjab, India; Kumar, S., Department of Mechanical Engineering, NIT, Jamshedpur, India	Materials Today: Proceedings	2022	22147853
6139	A game changer nano-fiber: Review on recent trends of graphene	Nauriyal S., Choudhary T., Mehtani H., Gupta V., Singh J.	Nauriyal, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhary, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mehtani, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
6140	A novel drill bit design for reducing bone-chip morphology in orthopaedic bone drilling	Agarwal R., Gupta V., Singh J.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Today: Proceedings	2022	22147853
6141	Joint Antenna and User Scheduling for MU MIMO Systems Using Efficient Binary Artificial Bee Colony Algorithm	Mohanty J., Pattanayak P., Nandi A., Trivedi V.K., Talukdar F.A.	Mohanty, J., Electronics and Communication Engineering, National Institute of Technology, Assam, Silchar, 788010, India, Electronics and Communication Engineering, Siksha O Anusandhan Deemed to be University, Odisha, Bhubaneswar, 751030, India; Pattanayak, P., Electronics and Communication Engineering, National Institute of Technology, Assam, Silchar, 788010, India; Nandi, A., Electronics and Communication Engineering, National Institute of Technology, Assam, Silchar, 788010, India; Trivedi, V.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Talukdar, F.A., Electronics and Communication Engineering, National Institute of Technology, Assam, Silchar, 788010, India	IETE Journal of Research	2022	3772063
6142	A Multi-Objective Optimization Scheme for Job Scheduling in Sustainable Cloud Data Centers	Kaur K., Garg S., Aujla G.S., Kumar N., Zomaya A.Y.	Kaur, K., Department of Electrical Engineering, École de Technologie Supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Garg, S., Department of Electrical Engineering, École de Technologie Supérieure, Université du Québec, Montréal, QC H3C 1K3, Canada; Aujla, G.S., Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom, Chandigarh University, Punjab, Mohali, India; Kumar, N., Department of Computer Science and Information Engineering, Asia University, Taiwan, King Abdulaziz University, Jeddah, Saudi Arabia, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147001, India; Zomaya, A.Y., School of Computer Science, University of SydneyNSW 2006, Australia	IEEE Transactions on Cloud Computing	2022	21687161

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6143	An Efficient Stacked Deep Transfer Learning Model for Automated Diagnosis of Lyme Disease	Alzubi A.A., Tiwari S., Walia K., Alanazi J.M., Alzobi F.I., Verma R.	Alzubi, A.A., Computer Science Department, Community College, King Saud University, Riyadh, Saudi Arabia; Tiwari, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Walia, K., Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Alanazi, J.M., Computer Science Department, Community College, King Saud University, Riyadh, Saudi Arabia; Alzobi, F.I., Department of Information Systems and Networks, Faculty of Information Technology, The World Islamic Sciences and Education University, Amman, Jordan; Verma, R., School of Computing, National College of Ireland, Dublin, Ireland	Computational Intelligence and Neuroscience	2022	16875265
6144	Parametric optimization of rice bran-based bi-functional catalyst in the one-pot conversion of indigenous algal biomass into biodiesel using response surface methodology	Brar P.K., Örmeci B., Dhir A.	Brar, P.K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Biomass Conversion and Biorefinery	2022	21906815
6145	A New Variant of JM Software Reliability Model	Kaswan K.S., Choudhary S., Singh S.P., Pise A.A., Hinga S.K.	Kaswan, K.S., School of Computing Science and Engineering, Galgotias University, Greater Noida, 203201, India; Choudhary, S., Department of Computing Science, Banasthali Vidyapith, Rajasthan, Vanasthali, 304022, India; Singh, S.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pise, A.A., School of Computer Science and Applied Mathematics, University of the Witwatersrand, Gauteng, Johannesburg, 2000, South Africa; Hinga, S.K., Department of Electrical and Electronic Engineering, Technical University of Mombasa, Mombasa, Kenya	Scientific Programming	2022	10589244
6146	EFFECT OF TIC REINFORCEMENT ON WEAR RESISTANCE OF MAGNESIUM MATRIX COMPOSITE BY FSP	Singh B., Singh J., Joshi R.S.	Singh, B., I.K. Gujral Punjab Technical University, Department of Research, Innovation and Consultancy, Punjab, India; Singh, J., Mechanical Engineering Department, Beant College of Engineering and Technology, Punjab, India; Joshi, R.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, India	Archives of Metallurgy and Materials	2022	17333490
6147	On Existence and uniqueness of fixed points in complex valued metric space and application to integral equations	Kumar D., Chandok S.	Kumar, D., Department of Mathematics, Lovely Professional University, Phagwara, Punjab, 144411, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Nonlinear Studies	2022	13598678
6148	Blockchain Technology Enablers in Physical Distribution and Logistics Management	Sharma R., Shishodia A.	Sharma, R., Jaipuria Institute of Management, Noida, India; Shishodia, A., LM Thapar School of Management, Dera Bassi, Mohali, India	Studies in Big Data	2022	21976503
6149	Sufficiency and duality of multi-objective bi-level programming problem under Guignard constraint qualification	Saini S., Kailey N.	Saini, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Maejo International Journal of Science and Technology	2022	19057873
6150	Explainable Information Retrieval using Deep Learning for Medical images	Singh A., Pannu H.S., Malhi A.	Singh, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malhi, A., Bournemouth University Fern Barrow, Poole, BH12 5BB, United Kingdom	Computer Science and Information Systems	2022	18200214
6151	IDENTITY, AFFECT, AND CULTURAL CITIZENSHIP IN DIASPORIC CONTEXT	Saxena S., Sharma D.	Saxena, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India; Sharma, D., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India	Trames	2022	14060922
6152	An Optimized Space Vector Based Switching Algorithm With Reduced Switching Transitions for Impedance Source Inverter	Sonar S., Mondal S., Ghommam J., Banerjee S.	Sonar, S., Department of Electrical and Instrumentation Engineering, TIET, Punjab, Patiala, 147004, India; Mondal, S., Department of Electrical Engineering, Institute of Engineering and Management, Kolkata, 700091, India; Ghommam, J., Department of Electrical and Computer Engineering, College of Engineering, Sultan Qaboos University, Muscat, 123, Oman; Banerjee, S., Department of Electrical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India	IEEE Access	2022	21693536
6153	Deep-Precognitive Diagnosis: Preventing Future Pandemics by Novel Disease Detection With Biologically-Inspired Conv-Fuzzy Network	Chharia A., Upadhyay R., Kumar V., Cheng C., Zhang J., Wang T., Xu M.	Chharia, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Upadhyay, R., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Cheng, C., Department of Medicine, Baylor College of Medicine, Houston, TX, United States; Zhang, J., Department of Computer Science, University of California at Irvine, Irvine, CA, United States; Wang, T., Department of Computer Science and Information Technology, Austin Peay State University, Clarksville, TN, United States; Xu, M., Computational Biology Department, School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, United States, Computer Vision Department, Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi, United Arab Emirates	IEEE Access	2022	21693536

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6154	Farmers' Survey App - An Interactive Open-Source Application for Agricultural Survey	Ghodgaonkar A., Surana B., Kumar P., Verma K., Kommanaboina B., Shacham-Diamand Y.	Ghodgaonkar, A., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Surana, B., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, P., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, K., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kommanaboina, B., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shacham-Diamand, Y., TIET-TAU Center of Excellence for Food Security, Tel Aviv University, Ramat Aviv, Israel	Communications in Computer and Information Science	2022	18650929
6155	Validity and Reliability Assessment of a Smartphone Application for Measuring Chronic Low Back Pain	Fenech J., Prakash V., Garg L., Carlo C., Sharma A.	Fenech, J., Department of Physiotherapy, University of Malta, Msida, Malta; Prakash, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, L., Faculty of Information and Communication Technology, University of Malta, Msida, Malta, Malta; Carlo, C., Department of Physiotherapy, University of Malta, Msida, Malta; Sharma, A., Open Assessment Technologies, 40, Parc d'Activites, Capellen, Mamer, 8308, Luxembourg	Communications in Computer and Information Science	2022	18650929
6156	Sentiment Analysis of COVID-19 Tweets by Machine Learning and Deep Learning Classifiers	Jain R., Bawa S., Sharma S.	Jain, R., Computer Science & Engg. Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Bawa, S., Computer Science & Engg. Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, S., Computer Science & Engg. Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Lecture Notes in Networks and Systems	2022	23673370
6157	The role of artificial intelligence in supply chain management: mapping the territory	Sharma R., Shishodia A., Gunasekaran A., Min H., Munim Z.H.	Sharma, R., Operations and Supply Chain Management, Jaipuria Institute of Management, Noida, India; Shishodia, A., Operations and Supply Chain Management, LM Thapar School of Management, Dera Bassi, India; Gunasekaran, A., School of Business Administration, Middletown, PA, United States; Min, H., Department of Management, Schmidthorst College of Business, Bowling Green State University, Bowling Green, OH, United States; Munim, Z.H., Faculty of Technology, Natural and Maritime Sciences, Department of Maritime Operations, University of South-Eastern Norway, Campus Vestfold (D3-52), Horten, Norway	International Journal of Production Research	2022	207543
6158	IoT-Sodar Network for Airshed Management Planning	Chourey P., Soni K., Singh N.J., Agarwal R.	Chourey, P., Thapar Institute of Engineering and Patiala, Punjab, Patiala, 147004, India; Soni, K., CSIR-National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi, 110012, India; Singh, N.J., Thapar Institute of Engineering and Patiala, Punjab, Patiala, 147004, India; Agarwal, R., Thapar Institute of Engineering and Patiala, Punjab, Patiala, 147004, India	IETE Journal of Research	2022	3772063
6159	Fog-Enabled Secure and Efficient Fine-Grained Searchable Data Sharing and Management Scheme for IoT-Based Healthcare Systems	Mamta, Gupta B., Lytras M.	Mamta, Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala 147004 India (e-mail: mamta@thapar.edu); Gupta, B., Department of Computer Engineering, National Institute of Technology, Kurukshetra, Haryana 136119 India, with the Department of Computer Science and Information Engineering, Asia University, Taichung, 413 Taiwan, with King Abdulaziz University, Jeddah 21589, Saudi Arabia, and also with the Staffordshire University, ST4 2DE, Stoke-on-Trent, U.K. (e-mail: gupta.brij@gmail.com); Lytras, M., American College of Greece 20006, Athens Greece, and also with the King Abdulaziz University, Jeddah 21589 Saudi Arabia (e-mail: mlytras@acg.edu).	IEEE Transactions on Engineering Management	2022	189391
6160	Nonlocal and magneto effects on dispersion characteristics of Love-type waves in piezomagnetic media	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Waves in Random and Complex Media	2022	17455030
6161	A Resource-Blockchain Framework for Safeguarding IoT	Bharti M., Kumar R., Saxena S., Sharma V.	Bharti, M., Jaypee University of Information Technology, Himachal Pradesh, Waknaghat, India; Kumar, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saxena, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, V., School of Electronics, Electrical Engineering and Computer Science, Queen's University Belfast (QUB), NI, Belfast, United Kingdom	Communications in Computer and Information Science	2022	18650929
6162	Special Issue on Artificial Intelligence, Edge, and Internet of Things for Smart Agriculture	Misra S., Kumar N.	Misra, S., Indian Institute of Technology Kharagpur, West Bengal, Kharagpur, India; Kumar, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India	IEEE Micro	2022	2721732
6163	A Novel Modified Harmonic Mean Combined with Cohesion Score for Multi-document Summarization	Roul R.K., Sahoo J.K.	Roul, R.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sahoo, J.K., BITS-Pilani, K.K. Birla Goa Campus, Goa, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2022	3029743
6164	An intelligent framework for detection of fatigue induced by sleep-deprivation	Virk J.S., Singh M., Singh M., Panjwani U., Ray K.	Virk, J.S., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, M., EIE Department, Thapar Institute of Engineering and Technology, Patiala, India; Panjwani, U., DIPAS, Defence Research and Development Organisation, Delhi, India; Ray, K., DIPAS, Defence Research and Development Organisation, Delhi, India	Journal of Intelligent and Fuzzy Systems	2022	10641246

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6165	Deep learning versus gradient boosting machine for pan evaporation prediction	Malik A., Saggi M.K., Rehman S., Sajjad H., Inyurt S., Bhatia A.S., Farooque A.A., Oudah A.Y., Yaseen Z.M.	Malik, A., Punjab Agricultural University, Regional Research Station, Punjab, Bathinda, India; Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Rehman, S., Faculty of Natural Science, Department of Geography, Jamia Millia Islamia, New Delhi, India; Sajjad, H., Faculty of Natural Science, Department of Geography, Jamia Millia Islamia, New Delhi, India; Inyurt, S., Faculty of Engineering and Architecture, Department of Geomatics Engineering, Tokat Gaziosmanpaşa University, Tokat, Turkey; Bhatia, A.S., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Farooque, A.A., Faculty of Sustainable Design Engineering, University of Prince Edward Island, Charlottetown, Canada, School of Climate Change and Adaptation, University of Prince Edward Island, Charlottetown, Canada; Oudah, A.Y., Department of Computer Sciences, College of Education for Pure Science, University of Thi-Qar, Nasiriyah, Iraq, Scientific Research Center, Al-Ayen University, Thi-Qar, Iraq; Yaseen, Z.M., Department of Urban Planning, Engineering Networks and Systems, Institute of Architecture and Construction, South Ural State University, Chelyabinsk, Russian Federation, New Era and Development in Civil Engineering Research Group, Scientific Research Center, Al-Ayen University, Thi-Qar, Iraq, College of Creative Design, Asia University, Taichung City, Taiwan	Engineering Applications of Computational Fluid Mechanics	2022	19942060
6166	Review - Synthesis and Electrochemical Applications of Molybdenum Carbide: Recent Progress and Perspectives	Upadhyay S., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of the Electrochemical Society	2022	134651
6167	Authenticate IoT Data for Health Care Applications Using ATSHA204 and Raspberry Pi	Brar N.K., Bansal M., Agarwal A.	Brar, N.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bansal, M., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agarwal, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Networks and Systems	2022	23673370
6168	Multimedia in search-based software engineering: challenges and opportunities within a new research domain	Prajapati A., Parashar A., Sunita, Chhabra J.K., Jain C.K.	Prajapati, A., IIIT, Noida, India; Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sunita, CCET, Chandigarh, India; Chhabra, J.K., NIT, Kurukshetra, India; Jain, C.K., IIIT, Noida, India	Multimedia Tools and Applications	2022	13807501
6169	3D CNN Architectures and Attention Mechanisms for Deepfake Detection	Roy R., Joshi I., Das A., Dantcheva A.	Roy, R., BITS, Pilani, India; Joshi, I., IIT Delhi, Delhi, India; Das, A., Thapar University, Patiala, India; Dantcheva, A., Inria Sophia Antipolis, Valbonne, France	Advances in Computer Vision and Pattern Recognition	2022	21916586
6170	On second order mock theta function B(q)	Kaur H., Rana M.	Kaur, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electronic Research Archive	2022	26881594
6171	Coalition Games for Performance Evaluation in 5G and beyond Networks: A Survey	Singh U., Ramaswamy A., Dua A., Kumar N., Tanwar S., Sharma G., Davidson I.E., Sharma R.	Singh, U., Birla Institute of Technology and Science, Pilani, India; Ramaswamy, A., Birla Institute of Technology and Science, Pilani, India; Dua, A., Birla Institute of Technology and Science, Pilani, India; Kumar, N., Thapar Institute of Engineering and Technology, Deemed to Be University, Punjab, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujrat, India; Sharma, G., Department of Electrical Power Engineering, Durban University of Technology, Steve Biko Campus, Durban, South Africa; Davidson, I.E., Department of Electrical Power Engineering, Durban University of Technology, Steve Biko Campus, Durban, South Africa; Sharma, R., Centre for Inter-Disciplinary Research and Innovation, University of Petroleum and Energy Studies, Dehradun, India	IEEE Access	2022	21693536
6172	Clinical Data Analysis for Prediction of Cardiovascular Disease Using Machine Learning Techniques	Nadakinamani R.G., Reyana A., Kautish S., Vibith A.S., Gupta Y., Abdelwahab S.F., Mohamed A.W.	Nadakinamani, R.G., Badr Al Samaa Hospital, Muscat, Oman; Reyana, A., Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu, India; Kautish, S., Department of Computer Science and Engineering, Lbef Campus, Kathmandu, Nepal; Vibith, A.S., Department of Computer Science and Engineering, Rmk College of Engineering and Technology, Tiruvallur, Tamil Nadu, India; Gupta, Y., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Abdelwahab, S.F., Department of Pharmaceutics and Industrial Pharmacy, College of Pharmacy, Taif University, PO Box 11099, Taif, 21944, Saudi Arabia; Mohamed, A.W., Operations Research Department, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, 12613, Egypt, Department of Mathematics and Actuarial Science, School of Science and Engineering, The American University in Cairo, New Cairo, Egypt	Computational Intelligence and Neuroscience	2022	16875265
6173	DIDACE: Literature Mining and Exploration of Disease-Diet Associations	Toor R., Chana I.	Toor, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Information Science and Engineering	2022	10162364

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6174	Decision-Making Approach Based on Generalized Aggregation Operators with Complex Single-Valued Neutrosophic Hesitant Fuzzy Set Information	Garg H., Ali Z., Hezam I.M., Gwak J.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Hezam, I.M., Department of Statistics and Operations Research, College of Sciences, King Saud University, Riyadh, Saudi Arabia; Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Ai Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of It and Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea	Mathematical Problems in Engineering	2022	1024123X
6175	Fusion of spherical-octupole pairs of colliding nuclei for compact and elongated configurations	Jain S., Sharma M.K., Kumar R.	Jain, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Chinese Physics C	2022	16741137
6176	Correction to: A modified social spider algorithm for an efficient data dissemination in VANET (Environment, Development and Sustainability, (2022), 10.1007/s10668-021-01994-w)	Shankar A., Dayalan R., Chakraborty C., Dhasarathan C., Kumar M.	Shankar, A., Department of Computer Science and Engineering, ASET, Amity University, Uttar Pradesh, Noida, India; Dayalan, R., Department of Computer Science & Engineering, Pondicherry University, Puducherry, India; Chakraborty, C., Department of Electronics & Communication Engineering, Birla Institute of Technology, Jharkhand, Ranchi, India; Dhasarathan, C., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Environment, Development and Sustainability	2022	1387585X
6177	A novel damage index for reinforced concrete beam-column joint using acoustic emission technique	Singh S., Sharma S., Kwatra N.	Singh, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	European Journal of Environmental and Civil Engineering	2022	19648189
6178	SOLVING FUZZY LINEAR FRACTIONAL SET COVERING PROBLEM BY A GOAL PROGRAMMING BASED SOLUTION APPROACH	Mahmoodirad A., Garg H., Niroomand S.	Mahmoodirad, A., Department of Mathematics, Masjed-Soleiman Branch, Islamic Azad University, Masjed-Soleiman, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India; Niroomand, S., Department of Industrial Engineering, Firouzabad Institute of Higher Education, Fars, Firouzabad, Iran	Journal of Industrial and Management Optimization	2022	15475816
6179	IoT-Based Smart Water Quality Monitoring System to Expand Sensors Life and Battery Power	Malhotra V.	Malhotra, V., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes on Data Engineering and Communications Technologies	2022	23674512
6180	Dual-Band RFID Tag Antenna Design for UHF Band Applications with High Read Range Performance	Bansal A., Khanna R., Sharma S.	Bansal, A., Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2022	23673370
6181	Possibility to form	Chopra S., Sharma M.K., Hess P.O., Bedi J.	Chopra, S., Department of Physics, Panjab University, Chandigarh, 160014, India; Sharma, M.K., School of Physics and Material Science, Thapar University, Patiala, 147004, India; Hess, P.O., Instituto de Ciencias Nucleares, UNAM, Mexico City, 04510, Mexico; Bedi, J., Department of Physics, Panjab University, Chandigarh, 160014, India	Physical Review C	2022	24699985
6182	Association of NAT-2 gene polymorphisms toward lung cancer susceptibility and prognosis in North Indian patients treated with platinum-based chemotherapy	Walia H.K., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Pharmacogenomics	2022	14622416
6183	Soft-Switched DC-DC Converter with T-Type Auxiliary Circuit for Vehicular Applications	Srivastava M., Tomar P.S., Verma A.K.	Srivastava, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tomar, P.S., Department of Electrical Engineering, Chandigarh University, Mohali, India; Verma, A.K., Department of Electrical Engineering, Malaviya National Institute of Technology Jaipur, Jaipur, India	IEEE Transactions on Industry Applications	2022	939994
6184	Hybrid Energy Storage to Control and Optimize Electric Propulsion Systems	Hans S., Ghosh S., Bhullar S., Kataria A., Karar V., Agrawal D.	Hans, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhullar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kataria, A., CSIR-Central Scientific Instruments Organization, Chandigarh, 160030, India; Karar, V., CSIR-Central Scientific Instruments Organization, Chandigarh, 160030, India; Agrawal, D., CSIR-Central Scientific Instruments Organization, Chandigarh, 160030, India	Computers, Materials and Continua	2022	15462218

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6185	SSEER: Segmented sectors in energy efficient routing for wireless sensor network	Gupta S.K., Kumar S., Tyagi S., Tanwar S.	Gupta, S.K., Department of ECE, SRMS College of Engineering, Technology and Research, AKTU, Uttar Pradesh, Lucknow, India, Department of ECE, Amity School of Engineering and Technology, Uttar Pradesh, Lucknow Campus, India; Kumar, S., Department of ECE, Amity School of Engineering and Technology, Uttar Pradesh, Lucknow Campus, India; Tyagi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India; Tanwar, S., Department of Computer Science Engineering, Institute of Technology, Nirma University, Ahmedabad, India	Multimedia Tools and Applications	2022	13807501
6186	Complex intuitionistic fuzzy soft SWARA-COPRAS approach: An application of ERP software selection	Garg H., Vimala J., Rajareega S., Preethi D., Perez-Dominguez L.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University Patiala, Punjab, 147004, India; Vimala, J., Department of Mathematics, Alagappa University, Tamilnadu, Karaikudi, India; Rajareega, S., Department of Mathematics, Alagappa University, Tamilnadu, Karaikudi, India; Preethi, D., Department of Mathematics, Alagappa University, Tamilnadu, Karaikudi, India; Perez-Dominguez, L., Departamento de Ingenieria Industrial y Manufactura, Universidad Autonoma de Ciudad Juarez, Juarez, Mexico	AIMS Mathematics	2022	24736988
6187	Real-time model inversion control for speed recovery of hydrostatic drive used in the rotary head of a blasthole drilling machine	Tripathi J.P., Hasan M.E., Ghoshal S.K.	Tripathi, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Hasan, M.E., School of Mechanical Engineering, KIIT University, Orissa, Bhubaneswar, India; Ghoshal, S.K., Department of Mechanical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022	16785878
6188	Influence of driver's behavior with empirical lane changing on the traffic dynamics	Madaan N., Sharma S.	Madaan, N., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	European Physical Journal B	2022	14346028
6189	Assessment of air quality and chemical fingerprints for atmospheric fine aerosols in an Indian smart city	Gupta A., Dhir A.	Gupta, A., Department of Environmental Science Engineering, Marwadi University, Rajkot, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, India	Environmental Pollutants and Bioavailability	2022	26395932
6190	Role of Selenium-Tolerant Fungi on Plant Growth Promotion and Selenium Accumulation of Maize Plants Grown in Seleniferous Soils	Kaur T., Vashisht A., Prakash N.T., Reddy M.S.	Kaur, T., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Vashisht, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Prakash, N.T., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Water, Air, and Soil Pollution	2022	496979
6191	Additive manufacturing-based design approaches and challenges for orthopaedic bone screws: a state-of-the-art review	Agarwal R., Gupta V., Singh J.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2022	16785878
6192	Fractional Order PID Design Using Big Bang–Big Crunch Algorithm and Order Reduction: Application to Load Frequency Control	Jain S., Hote Y.V., Saxena S.	Jain, S., Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, India; Hote, Y.V., Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, India; Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electric Power Components and Systems	2022	15325008
6193	Prediction of flood risk zone of Ghaggar river basin, India using graph theory technique	Gorai S., Ratha D., Dhir A.	Gorai, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Geocarto International	2022	10106049
6194	Automatic Machine for Round Welding Using Programmable Logic Controller (PLC)	Gupta G., Singh R., Singh A.K.	Gupta, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Smart Innovation, Systems and Technologies	2022	21903018
6195	Design of Electrical Screwdriver Using Arduino and Planetary Gear System	Singh R., Gupta G., Kaur G.	Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Smart Innovation, Systems and Technologies	2022	21903018
6196	Design and development of non-linearly controlled class-d audio amplifier	Joshi S., Tripathi R., Badoni M., Kumar R., Khetrapal P.	Joshi, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering And Technology, Patiala, 147003, India; Tripathi, R., Mechanical and Electrical Systems Engineering, Kyoto University of Advance Science, Kyoto, 6168577, Japan; Badoni, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering And Technology, Patiala, 147003, India; Kumar, R., Electrical and Electronics Engineering Department, KIET Group of Institutions, Ghaziabad, 201206, India; Khetrapal, P., Electrical and Electronics Engineering Department, SRM Institute of Science and Technology, Modinagar Campus, Ghaziabad, 201203, India	Electronics (Switzerland)	2022	20799292

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6197	An Efficient Blind Fragile Watermarking Scheme for Tamper Localization	Bharti S.S., Shivani S., Pandey S.K., Agarwal S.	Bharti, S.S., Loknayak Jai Prakash Institute of Technology, Chapra, India; Shivani, S., Thapar Institute of Engineering and Technology, Patiala, India; Pandey, S.K., Loknayak Jai Prakash Institute of Technology, Chapra, India; Agarwal, S., MNNIT Allahabad, Prayagraj, India	Lecture Notes in Networks and Systems	2022	23673370
6198	Degradation and Decoloration of RB5 Dye via UV Radiation Using Fe-TiO ₂ Composite Photocatalyst in Fixed-Mode	Kumar L., Thakur I., Verma A., Bhatia B.S., Mangat C.K.	Kumar, L., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhatia, B.S., RIMT University, Punjab, Mandi Gobindgarh, India; Mangat, C.K., RIMT University, Punjab, Mandi Gobindgarh, India	Lecture Notes in Civil Engineering	2022	23662557
6199	Zinc-Based Anodes for Cathodic Protection of Reinforced Concrete Structures	Goyal A.	Goyal, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Civil Engineering	2022	23662557
6200	Preface	Mallick S.S.	Mallick, S.S., Laboratory for Particle and Bulk Solids Technologies, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Particulate Science and Technology	2022	2726351
6201	Development of high power 20 dB directional coupler for Ion Cyclotron Resonance frequency system of Tokamak	Jain A., Yadav R.P.	Jain, A., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Electronics and Communication Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Electronics Letters	2022	21681724
6202	A novel hybrid tunicate swarm naked mole-rat algorithm for image segmentation and numerical optimization	Singh S., Mittal N., Singh U., Salgotra R., Zaguia A., Singh D.	Singh, S., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, 140413, India, Department of Electronics and Communication Engineering, TIET, Patiala, 147004, India; Mittal, N., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, 140413, India; Singh, U., Department of Electronics and Communication Engineering, TIET, Patiala, 147004, India; Salgotra, R., Department of Electronics and Communication Engineering, TIET, Patiala, 147004, India; Zaguia, A., Department of Computer Science, College of Computers and Information Technology, Taif University, Taif, 21944, Saudi Arabia; Singh, D., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, 61005, South Korea	Computers, Materials and Continua	2022	15462218
6203	Lip as biometric and beyond: a survey	Chowdhury D.P., Kumari R., Bakshi S., Sahoo M.N., Das A.	Chowdhury, D.P., Department of Computer Science and Engineering, National Institute of Technology, Rourkela, India; Kumari, R., Department of Computer Science and Engineering, National Institute of Technology, Rourkela, India; Bakshi, S., Department of Computer Science and Engineering, National Institute of Technology, Rourkela, India; Sahoo, M.N., Department of Computer Science and Engineering, National Institute of Technology, Rourkela, India; Das, A., Inria Sophia Antipolis - Méditerranée, Biot, France, Thapar University, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
6204	Design of a compact polarization-insensitive multi-band metamaterial absorber for terahertz applications	Kaur H., Singh H.S.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Patiala, Punjab 147004, India	Optik	2022	304026
6205	Multiple regression analysis for predicting few water quality parameters at unmonitored sub-watershed outlets in the St. Joseph River basin, USA	Babbar R., Chaubey I.	Babbar, R., Department of Agricultural & Biological Sciences, Purdue University, West Lafayette, Indianapolis, United States, Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Chaubey, I., Department of Agricultural & Biological Sciences, Purdue University, West Lafayette, Indianapolis, United States, Dean and Director at College of Agriculture, Health and Natural Resources, University of ConnecticutCT, United States	Geocarto International	2022	10106049
6206	Application of Advanced Oxidation Processes (AOPs) for the Treatment of Petrochemical Industry Wastewater	Verma S., Kumar P., Srivastava V.C., Štangar U.L.	Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab, 147004, India; Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Srivastava, V.C., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Roorkee, Uttarakhand, 247667, India; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia	Environmental Science and Engineering	2022	18635520
6207	Removal of Endocrine-Disrupting Compounds by Wastewater Treatment	Sarkar G.S., Rathi A., Basu S., Arya R.K., Halder G.N., Barman S.	Sarkar, G.S., Department of Chemical Engineering, Jadavpur University, Kolkata, 32, India; Rathi, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Arya, R.K., Department of Chemical Engineering, National Institute of Technology, Jalandhar, Punjab, India; Halder, G.N., Department of Chemical Engineering, National Institute of Technology, Durgapur, West Bengal, India; Barman, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Environmental Science and Engineering	2022	18635520
6208	A comprehensive review on effects of mineral admixtures and fibers on engineering properties of ultra-high-performance concrete	Sharma R., Jang J.G., Bansal P.P.	Sharma, R., Division of Architecture and Urban Design, Urban Sciences Institute, Incheon National University, 119 Academy-ro, Yeonsu-gu, Incheon, 22012, South Korea; Jang, J.G., Division of Architecture and Urban Design, Urban Sciences Institute, Incheon National University, 119 Academy-ro, Yeonsu-gu, Incheon, 22012, South Korea; Bansal, P.P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Building Engineering	2022	23527102

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6209	Rhodium-Catalyzed Cascade Reactions using Diazo Compounds as a Carbene Precursor to Construct Diverse Heterocycles	Soam P., Kamboj P., Tyagi V.	Soam, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kamboj, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Asian Journal of Organic Chemistry	2022	21935807
6210	Obtaining crisp priorities for triangular and trapezoidal fuzzy judgments	Goyal R.K., Singh J., Kalra N., Parashar A., Singla G., Kaushal S.	Goyal, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singla, G., Computer Science and Engineering, University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Kaushal, S., Computer Science and Engineering, University Institute of Engineering and Technology, Panjab University, Chandigarh, India	Computer Systems Science and Engineering	2022	2676192
6211	A method for authenticating digital records for healthcare systems	Anand A., Singh A.K.	Anand, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, A.K., Department of Computer Science and Engineering, National Institute of Technology Patna, Bihar, India	Sustainable Computing: Informatics and Systems	2022	22105379
6212	Intelligent Cooperative Collision Avoidance at Overtaking and Lane Changing Maneuver in 6G-V2X Communications	Prathiba S.B., Raja G., Kumar N.	Prathiba, S.B., NGNLab, Department of Computer Technology, Anna University, Chennai, India; Raja, G., NGNLab, Department of Computer Technology, Anna University, Chennai, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India	IEEE Transactions on Vehicular Technology	2022	189545
6213	Autism spectrum disorder prediction by an explainable deep learning approach	Garg A., Parashar A., Barman D., Jain S., Singhal D., Masud M., Abouhawahsh M.	Garg, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Barman, D., School of Computer Science and Statistics, Trinity College Dublin, Dublin, Ireland; Jain, S., University Institute of Biotechnology, Chandigarh University, Mohali, India; Singhal, D., University Institute of Biotechnology, Chandigarh University, Mohali, India; Masud, M., Department of Computer Science, College of Computers and Information Technology, Taif University, Taif, 21944, Saudi Arabia; Abouhawahsh, M., Department of Mathematics, Faculty of Science, Mansoura University, Mansoura, 35516, Egypt, Department of Computational Mathematics, Science, and Engineering (CMSE), Michigan State University, East Lansing, MI 48824, United States	Computers, Materials and Continua	2022	15462218
6214	Reinforcement learning based energy efficient protocol for wireless multimedia sensor networks	Joshi U., Kumar R.	Joshi, U., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
6215	MTHFR polymorphism as a predictive biomarker for gastrointestinal and hematological toxicity in North Indian adenocarcinoma patients	Walia H.K., Singh N., Sharma S.	Walia, H.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Chemotherapy	2022	1120009X
6216	Three-way decision based on canonical soft sets of hesitant fuzzy sets	Feng F., Wan Z., Alcantud J.C.R., Garg H.	Feng, F., Department of Applied Mathematics, School of Science, Xi'an University of Posts and Telecommunications, Xi'an, 710121, China; Wan, Z., Department of Applied Mathematics, School of Science, Xi'an University of Posts and Telecommunications, Xi'an, 710121, China; Alcantud, J.C.R., BORDA Research Unit and Multidisciplinary Institute of Enterprise (IME), University of Salamanca, Salamanca, E37007, Spain; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India	AIMS Mathematics	2022	24736988
6217	Impact of multilayer ELM feature mapping technique on supervised and semi-supervised learning algorithms	Roul R.K.	Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	Soft Computing	2022	14327643
6218	Strength and Permeability of No-Fines Concrete Made with Supplementary Cementitious Materials	Singh T., Siddique R., Sharma S.	Singh, T., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Siddique, R., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Materials in Civil Engineering	2022	8991561
6219	Design of robust fractional-order controller using the Bode ideal transfer function approach in IMC paradigm	Saxena S., Hote Y.V.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hote, Y.V., Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India	Nonlinear Dynamics	2022	0924090X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6220	An optimized deep learning model for emotion classification in tweets	Singla C., Al-Wesabi F.N., Pathania Y.S., Alfurhood B.S., Hilal A.M., Rizwanullah M., Hamza M.A., Mahzari M.	Singla, C., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Al-Wesabi, F.N., Department of Computer Science, King Khalid University, Muhayel Aseer, Saudi Arabia, Faculty of Computer and IT, Sana'a University, Sana'a, Yemen; Pathania, Y.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Alfurhood, B.S., Department of Computer Science, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, Saudi Arabia; Hilal, A.M., Department of Computer and Self Development, Preparatory Year Deanship, Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia; Rizwanullah, M., Department of Computer and Self Development, Preparatory Year Deanship, Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia; Hamza, M.A., Department of Computer and Self Development, Preparatory Year Deanship, Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia; Mahzari, M., Department of English, College of Science & Humanities, Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia	Computers, Materials and Continua	2022	15462218
6221	Controller placement in software defined internet of things using optimization algorithm	Hans S., Ghosh S., Kataria A., Karar V., Sharma S.	Hans, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kataria, A., Optical Devices and Systems, CSIR-Central Scientific Instruments Organization, Sector 30-C, Chandigarh, 160030, India; Karar, V., Optical Devices and Systems, CSIR-Central Scientific Instruments Organization, Sector 30-C, Chandigarh, 160030, India; Sharma, S., Department of Electrical Engineering, Government Polytechnic, Ambala, Ambala City, 134003, India	Computers, Materials and Continua	2022	15462218
6222	Effectiveness of using Metakaolin and fly ash as supplementary cementitious materials in pervious concrete	Singh T., Siddique R., Sharma S.	Singh, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India	European Journal of Environmental and Civil Engineering	2022	19648189
6223	Towards sustainable smart cities: A secure and scalable trading system for residential homes using blockchain and artificial intelligence	Samuel O., Javaid N., Alghamdi T.A., Kumar N.	Samuel, O., Department of Computer Science, COMSATS University Islamabad, Islamabad, 44000, Pakistan; Javaid, N., Department of Computer Science, COMSATS University Islamabad, Islamabad, 44000, Pakistan; Alghamdi, T.A., Department of Computer Science, College of Computer and Information Systems, Umm Al-Qura University, Makkah, 21955, Saudi Arabia; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taiwan	Sustainable Cities and Society	2022	22106707
6224	Effect of alum sludge ash on the high-temperature resistance of mortar	Liu Y., Zhuge Y., Chow C.W.K., Keegan A., Li D., Pham P.N., Yao Y., Kitipornchai S., Siddique R.	Liu, Y., UniSA STEM, University of South AustraliaSA 5000, Australia; Zhuge, Y., UniSA STEM, University of South AustraliaSA 5000, Australia; Chow, C.W.K., UniSA STEM, University of South AustraliaSA 5000, Australia; Keegan, A., South Australian Water Corporation, Adelaide, SA 5000, Australia; Li, D., UniSA STEM, University of South AustraliaSA 5000, Australia; Pham, P.N., Faculty of Bridge and Road Engineering, The University of Danang-University of Science and Technology, 54 Nguyen Luong Bang Str. Danang, Viet Nam; Yao, Y., School of Civil Engineering, Xi'an University of Architecture and Technology, Xi'an, 710055, China; Kitipornchai, S., School of Civil Engineering, The University of Queensland, St Lucia, Brisbane QLD 4072, Australia; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Resources, Conservation and Recycling	2022	9213449
6225	Chroma key foreground forgery detection under various attacks in digital video based on frame edge identification	Singh G., Singh K.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
6226	On synergistic effect of BaTiO3 and graphene reinforcement in polyvinyl diene fluoride matrix for four dimensional applications	Sharma R., Singh R., Batish A., Ranjan N.	Sharma, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ranjan, N., Department of Mechanical Engineering and University Centre for Research and Development, Chandigarh University, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2022	9544062
6227	H-infinity controller based disturbance rejection in continuous stirred-tank reactor	Hans S., Ghosh S.	Hans, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Intelligent Automation and Soft Computing	2022	10798587

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6228	Cryptographically secure privacy-preserving authenticated key agreement protocol for an IoT network: A step towards critical infrastructure protection	Thakur V., Indra G., Gupta N., Chatterjee P., Said O., Tolba A.	Thakur, V., Department of Information Technology, Indira Gandhi Delhi Technical University for Women, New Delhi, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Indra, G., Department of Information Technology, Indira Gandhi Delhi Technical University for Women, New Delhi, India; Gupta, N., Department of Computer Science and Engineering, National Institute of Technology, Himachal Pradesh, Hamirpur, India; Chatterjee, P., Future Networking Research Group, Ton Duc Thang University, Ho Chi Minh City, Viet Nam, Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Said, O., Department of Information Technology, College of Computers and Information Technology, Taif University, P.O. Box 11099, Taif, 21944, Saudi Arabia; Tolba, A., Department of Computer Science, Community College, King Saud University, Riyadh, 11437, Saudi Arabia, Department of Mathematics and Computer Science, Faculty of Science, Menoufia University, Menoufia, Egypt	Peer-to-Peer Networking and Applications	2022	19366442
6229	A Review on Fracture Analysis of CNT/Graphene Reinforced Composites for Structural Applications	Yadav A., Godara R.K., Bhardwaj G., Patil R.U., Singh S.K., Khanna K.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Patil, R.U., Mechanical Engineering Department, Indian Institute of Technology, Jammu, Jammu & Kashmir, Jammu, 181221, India; Singh, S.K., Mechanical and Industrial Engineering Department, Indian Institute of Technology, Uttarakhand, Roorkee, 247667, India; Khanna, K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Archives of Computational Methods in Engineering	2022	11343060
6230	E-FFTF: An Extended Framework for Flexible Fault Tolerance in Cloud	Hasan M., Goraya M.S., Garg T.	Hasan, M., Lovely Professional University, Phagwara, India; Goraya, M.S., Sant Longowal Institute of Engineering and Technology, Sangrur, India; Garg, T., Thapar Institute of Engineering & Technology, Patiala, India	Lecture Notes in Networks and Systems	2022	23673370
6231	Neutrality aggregation operators based on complex q-rung orthopair fuzzy sets and their applications in multiattribute decision-making problems	Garg H., Gandomi A.H., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, India; Gandomi, A.H., Data Science Institute, Faculty of Engineering & Information Technology, University of Technology Sydney, Ultimo, NSW, Australia; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, Pakistan	International Journal of Intelligent Systems	2022	8848173
6232	Preface	Garg L., Kesswani N., Vella J.G., Xuereb P., Lo M.F., Diaz R., Misra S., Gupta V., Randhawa P.	Garg, L., CIS Dept University of Malta, Msida, Malta; Kesswani, N., Department of Computer Science Central, University of Rajasthan, Rajasthan, India; Vella, J.G., CIS Dept University of Malta, Msida, Malta; Xuereb, P., Faculty of ICT, University of Malta, Msida, Malta; Lo, M.F., The Education University of Hong Kong, Hong Kong; Diaz, R., Nueva Ecija Uni, versity of Science and Technology, Cabanatuan City, Philippines; Misra, S., Computer Engg, Covenant University, CUCRID Bldg, #A301, Ota, Nigeria; Gupta, V., Lm Thapar School of Management Thapar University, Mohali, India; Randhawa, P., Manipal University Jaipur, Jaipur, India	Lecture Notes in Networks and Systems	2022	23673370
6233	Transformative Quality in Higher Education Institutions (HEIs): Conceptualisation, scale development and validation	Gill S.K., Dhir A., Singh G., Vrontis D.	Gill, S.K., Department of Management, LM Thapar School of Management, Thapar Institute of Engineering and Technology, India; Dhir, A., Department of Management, School of Business & Law, University of Agder, Norway, University of Eastern Finland, Business School, P.O. Box 111, Joensuu, FI-80101, Finland, Optentia Research Focus Area, North-West University, Vanderbijlpark, South Africa; Singh, G., Department of Management, LM Thapar School of Management, Thapar Institute of Engineering and Technology, India; Vrontis, D., GNOSIS Mediterranean Institute for Management Science, University of Nicosia, Nicosia, Cyprus	Journal of Business Research	2022	1482963
6234	Hiding patient information in medical images : an encrypted dual image reversible and secure patient data hiding algorithm for E-healthcare	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2022	13807501
6235	Facile immobilization of iron on carbon nanospheres using organometallic-complex for supercapacitor applications	Mahajan A., Choudhary R., Kumar A., Chhibber M., Brar L.K.	Mahajan, A., School of Chemistry and Biochemistry, T.I.E.T, Patiala, India; Choudhary, R., School of Physics and Materials Science, T.I.E.T, Patiala, India; Kumar, A., School of Chemistry and Biochemistry, T.I.E.T, Patiala, India; Chhibber, M., School of Chemistry and Biochemistry, T.I.E.T, Patiala, India; Brar, L.K., School of Physics and Materials Science, T.I.E.T, Patiala, India	Particulate Science and Technology	2022	2726351
6236	A Critical Review on Secure Authentication in Wireless Network	Diwakar M., Singh P., Kumar P., Tiwari K., Bhusan S.	Diwakar, M., Graphic Era Deemed to be University, Dehradun, India; Singh, P., Amity School of Engineering and Technology, Amity University, Noida, Uttar Pradesh, India; Kumar, P., Krishna Engineering College, Ghaziabad, Uttar Pradesh, India; Tiwari, K., Thapar University, Patiala, Punjab, India; Bhusan, S., UPES, Dehradun, India	Lecture Notes in Electrical Engineering	2022	18761100

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6237	Secure Authentication in WLAN Using Modified Four-Way Handshake Protocol	Diwakar M., Singh P., Kumar P., Tiwari K., Bhushan S., Kaushik M.	Diwakar, M., Graphic Era Deemed to be University, Dehradun, India; Singh, P., Amity School of Engineering and Technology, Amity University, Noida, Uttar Pradesh, India; Kumar, P., Krishna Engineering College, Ghaziabad, Uttar Pradesh, India; Tiwari, K., Thapar University, Patiala, Punjab, India; Bhushan, S., UPES, Dehradun, India; Kaushik, M., Amity University, Jaipur, Rajasthan, India	Lecture Notes in Electrical Engineering	2022	18761100
6238	Multi-Class Classification of Alzheimer's Disease Using Frontal Cortex Non-invasive FNIRS	Ho T.K.K., Kim M., Garg H., Kim B.C., Lee J.J., Choi K.Y., Kim J.G., Lee K.H., Song J.-I., Gwak J.	Ho, T.K.K., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, 61005, South Korea; Kim, M., Department of Biomedical Science and Engineering, Institute of Science and Technology, Gwangju, 61005, South Korea; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, Punjab, 147004, India; Kim, B.C., Department of Neurology, Chonnam National University Medical School, Gwangju, 61469, South Korea; Lee, J.J., Gwangju Alzheimer's Disease and Related Dementias (GARD) Cohort Research Center, Chosun University, Gwangju, 61452, South Korea; Choi, K.Y., Gwangju Alzheimer's Disease and Related Dementias (GARD) Cohort Research Center, Chosun University, Gwangju, 61452, South Korea; Kim, J.G., Department of Biomedical Science and Engineering, Institute of Science and Technology, Gwangju, 61005, South Korea; Lee, K.H., Gwangju Alzheimer's Disease and Related Dementias (GARD) Cohort Research Center, Chosun University, Gwangju, 61452, South Korea; Department of Biomedical Science, Chosun University, Gwangju, 61452, South Korea, Aging Neuroscience Research Group, Korea Brain Research Institute, Daegu, 41062, South Korea; Song, J.-I., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, 61005, South Korea; Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea	IFMBE Proceedings	2022	16800737
6239	Enhancement of image contrast using Selfish Herd Optimizer	Guha R., Alam I., Bera S.K., Kumar N., Sarkar R.	Guha, R., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Alam, I., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Bera, S.K., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India; Kumar, N., School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala (Punjab), India; Sarkar, R., Department of Computer Science and Engineering, Jadavpur University, Kolkata, India	Multimedia Tools and Applications	2022	13807501
6240	Smart HR Competencies and Their Applications in Industry 4.0	Srivastava Y., Ganguli S., Suman Rajest S., Regin R.	Srivastava, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Suman Rajest, S., Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai, Tamil Nadu, India; Regin, R., Department of Information Technology, Adhiyamaan College of Engineering, Hosur, Tamil Nadu, India	Intelligent Systems Reference Library	2022	18684394
6241	B-IoMV: Blockchain-based onion routing protocol for D2D communication in an IoMV environment beyond 5G	Gupta R., Tanwar S., Kumar N.	Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, Punjab, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India	Vehicular Communications	2022	22142096
6242	A hybrid moth flame optimization and variable neighbourhood search technique for optimal design of IIR filters	Mittal T.	Mittal, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Neural Computing and Applications	2022	9410643
6243	Conceptualization and techno-economic evaluation of municipal solid waste based microgrid	Singh A., Basak P.	Singh, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Thapar Institute of Engineering and Technology, Patiala, India	Energy	2022	3605442
6244	Quantitative estimation of soil properties using hybrid features and RNN variants	Singh S., Kasana S.S.	Singh, S., Department of Computer Science and Engineering, Bennett University, Greater Noida, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Chemosphere	2022	456535
6245	Evaluation of IoT Based Automatic Headlight Dimmer Systems	Gandhi K., Aulakh K.S., Thind J.S., Kharoud G.S., Sharma S.	Gandhi, K., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Aulakh, K.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Thind, J.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kharoud, G.S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Sharma, S., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Lecture Notes in Networks and Systems	2022	23673370

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6246	An Approach for Offline Handwritten Character Shape Reconstruction Using Active Contour and Morphological Techniques	Garg A., Kaur A., Parashar A.	Garg, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, (147001), India; Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, (147001), India; Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, (147001), India	Lecture Notes in Networks and Systems	2022	23673370
6247	Comparison of PPC and LQR Controller for Stabilization of Cart Pendulum System: Simulation and Real-Time Study	Singh G., Singla A.	Singh, G., School of Mechanical and Materials Engineering, University College Dublin, Dublin, Ireland; Singla, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Mechanical Engineering	2022	21954356
6248	PI Control-Based Modelling of Segway Using Bond Graph	Kumar A., Singh R., Bera T.K., Singla A.	Kumar, A., Thapar Institute of Engineering and Technology, Patiala Punjab, 147001, India; Singh, R., Thapar Institute of Engineering and Technology, Patiala Punjab, 147001, India; Bera, T.K., Thapar Institute of Engineering and Technology, Patiala Punjab, 147001, India; Singla, A., Thapar Institute of Engineering and Technology, Patiala Punjab, 147001, India	Lecture Notes in Mechanical Engineering	2022	21954356
6249	Kinematics/Dynamics Analysis with ADAMS/MATLAB Co-simulation of a SolidWorks Designed Spatial Robot Arm with Control and Validation of Results	Kumar V.	Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Lecture Notes in Mechanical Engineering	2022	21954356
6250	Mathematical Model of SMA Spring Actuator in a Miniature Flexible Tube Robot	Bhatt N., Soni S., Singla A.	Bhatt, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Soni, S., Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, 160030, India; Singla, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2022	21954356
6251	Feature based CT image registration of liver cancer	Krishan A., Mittal D.	Krishan, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	2022	9544119
6252	A Feature Reduced Intrusion Detection System with Optimized SVM Using Big Bang Big Crunch Optimization	Nagpal M., Kaushal M., Akashdeep Sharma	Nagpal, M., UIET, Panjab University Chandigarh, Chandigarh, India; Kaushal, M., CSED, Thapar Institute of Engineering and Technology, Derabassi Campus, Punjab, India; Akashdeep Sharma, UIET, Panjab University Chandigarh, Chandigarh, India	Wireless Personal Communications	2022	9296212
6253	Sequestration of mercury and cadmium by a heavy metals' tolerant Bacillus cereus strain JS-3: a microbial preparedness for terrestrial and anthropogenic hazards	Kaur A., Nirwan J., Tiwana A.S., Singh A., Singh R.P., Verma A., Gupta S.	Kaur, A., Department of Microbiology, Mata Gujri College, Punjab, Fatehgarh Sahib, India; Nirwan, J., Department of Microbiology, Mata Gujri College, Punjab, Fatehgarh Sahib, India; Tiwana, A.S., Department of Geography, Mata Gujri College, Punjab, Fatehgarh Sahib, India; Singh, A., Department of Physics, Guru Teg Bahadur Khalsa College, Punjab, Sri Anandpur Sahib, India; Singh, R.P., Department of Food Processing Technology, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, India; Verma, A., School of Energy and Environment, Thapar University, Punjab, Patiala, India; Gupta, S., Department of Microbiology, Mata Gujri College, Punjab, Fatehgarh Sahib, India	Bioremediation Journal	2022	10889868
6254	Effect of precursor feeding, dietary supplementation, chemical elicitors and co-culturing on resveratrol production by Arcopilus aureus	Dwibedi V., Saxena S.	Dwibedi, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Biotechnology, Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Preparative Biochemistry and Biotechnology	2022	10826068
6255	Hardware Implementation of English to Regional Language Translator Using Arduino	Brar N.K., Kumar A., Bansal M., Agarwal A.	Brar, N.K., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Thapar Institute of Engineering and Technology, Patiala, India; Bansal, M., Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, A., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2022	23673370
6256	Developing Personal Protective Equipment Against COVID-19	Bhattacharjee S., Singh H.	Bhattacharjee, S., Department of Physics and Nanotechnology, SRM Institute of Science and Technology (Deemed to be University), Kattankulathur, Tamil Nadu, 603203, India; Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Lecture Notes in Bioengineering	2022	2195271X
6257	Covid-19 Success Stories of 3D Printing	Singh H., Bhattacharjee S., Bawa P.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhattacharjee, S., Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, 603203, India; Bawa, P., Chitkara University Institute of Engineering & Technology, Centre of Excellence for Speech and Multimodal Laboratory, Chitkara University, Rajpura, Punjab, 140401, India	Lecture Notes in Bioengineering	2022	2195271X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6258	Net Zero Energy Consumption building in India: An overview and initiative toward sustainable future	Saini L., Meena C.S., Raj B.P., Agarwal N., Kumar A.	Saini, L., Building Energy Efficiency, CSIR- Central Building Research Institute, Roorkee, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Meena, C.S., Building Energy Efficiency, CSIR- Central Building Research Institute, Roorkee, India, Academy of Scientific and Innovative Research (Acsir), Ghaziabad, India; Raj, B.P., Building Energy Efficiency, CSIR- Central Building Research Institute, Roorkee, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, N., Building Energy Efficiency, CSIR- Central Building Research Institute, Roorkee, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Building Energy Efficiency, CSIR- Central Building Research Institute, Roorkee, India, Academy of Scientific and Innovative Research (Acsir), Ghaziabad, India	International Journal of Green Energy	2022	15435075
6259	A switched-capacitors-based 13-level inverter	Bhatnagar P., Singh A.K., Gupta K.K., Siwakoti Y.P.	Bhatnagar, P., IES College of Technology, Bhopal, 462008, India; Singh, A.K., Netaji Subhas University of Technology, New Delhi, 110078, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Siwakoti, Y.P., School of Electrical and Data Engineering, University of Technology Sydney, Sydney, NSW 2007, Australia	IEEE Transactions on Power Electronics	2022	8858993
6260	Properties of sustainable self-compacting concrete made with rice husk ash	Sandhu R.K., Siddique R.	Sandhu, R.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	European Journal of Environmental and Civil Engineering	2022	19648189
6261	Insights on sustainable approaches for production and applications of value added products	Sodhi A.S., Sharma N., Bhatia S., Verma A., Soni S., Batra N.	Sodhi, A.S., Department of Biotechnology, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32-C, Chandigarh, 160030, India; Sharma, N., Department of Biotechnology, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32-C, Chandigarh, 160030, India; Bhatia, S., Department of Biotechnology, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32-C, Chandigarh, 160030, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Soni, S., Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32-C, Chandigarh, 160030, India; Batra, N., Department of Biotechnology, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32-C, Chandigarh, 160030, India	Chemosphere	2022	456535
6262	Performance investigation of a concentric double tube heat exchanger using twisted tape inserts and nanofluid	Kundan L., Darshan M.B.	Kundan, L., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Darshan, M.B., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Particulate Science and Technology	2022	2726351
6263	Anchorage capacity of headed bars in steel fiber reinforced concrete	Sachdeva P., Roy A.B.D., Kwatra N.	Sachdeva, P., Department of Civil Engineering, Thapar Institute of Engineering and Technology (deemed to be university), Patiala, India, Chitkara College of Applied Engineering, Chitkara University, Punjab, India; Roy, A.B.D., Department of Civil Engineering, Thapar Institute of Engineering and Technology (deemed to be university), Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology (deemed to be university), Patiala, India	Canadian Journal of Civil Engineering	2022	3151468
6264	Neuroprotective effects of quercetin produced by an endophytic fungus <i>Nigrospora oryzae</i> isolated from <i>Tinospora cordifolia</i>	Vig R., Bhadra F., Gupta S.K., Sairam K., Vasundhara M.	Vig, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Bhadra, F., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, S.K., Neurotherapeutics Laboratory, Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi, India; Sairam, K., Neurotherapeutics Laboratory, Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Applied Microbiology	2022	13645072
6265	Fractional-order IMC controller for high-order system using reduced-order modelling via Big-Bang, Big-Crunch optimisation	Saxena S., Biradar S.	Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Biradar, S., Department of Aerospace Engineering, Indian Institute of Science, Bengaluru, India, Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, India	International Journal of Systems Science	2022	207721
6266	Food Adulteration Detection using Artificial Intelligence: A Systematic Review	Goyal K., Kumar P., Verma K.	Goyal, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Archives of Computational Methods in Engineering	2022	11343060
6267	Effect of biasing conditions on the performance of a SMA spring actuator under thermo-mechanical loading	Bhatt N., Gurung H., Soni S., Singla A.	Bhatt, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gurung, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Soni, S., Biomedical Instrumentation Division, Central Scientific Instruments Organization (CSIR-CSIO), Punjab, Chandigarh, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mechanics of Advanced Materials and Structures	2022	15376494

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6268	Machine learning based predictive modeling and control of surface roughness generation while machining micro boron carbide and carbon nanotube particle reinforced Al-Mg matrix composites	Sekhar R., Singh T.P., Shah P.	Sekhar, R., Symbiosis Institute of Technology (SIT), Symbiosis International (Deemed University) (SIU), Pune, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Shah, P., Symbiosis Institute of Technology (SIT), Symbiosis International (Deemed University) (SIU), Pune, India	Particulate Science and Technology	2022	2726351
6269	Effect of surfactant on drying and rheology of poly (vinyl alcohol)-water coatings	Arya R.K., Giribabu D., Sharma J., Rawat M., Chandra A., Barman S.	Arya, R.K., Department of Chemical Engineering, Dr. B. R Ambedkar National Institute of Technology, Punjab, India; Giribabu, D., Department of Chemical Engineering, Dr. B. R Ambedkar National Institute of Technology, Punjab, India; Sharma, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Drying Technology	2022	7373937
6270	Carbon aerogel and polyaniline/carbon aerogel adsorbents for Acid Green 25 dye: synthesis, characterization and an adsorption study	Kalotra S., Mehta R.	Kalotra, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Patiala, India, Virginia Tech-TIET Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, India	Chemical Engineering Communications	2022	986445
6271	Effect of fine aggregate replacement with expanded perlite and pumice on the development of lightweight concrete	Sharma B., Sharma R., Bansal P.P.	Sharma, B., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bansal, P.P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Australian Journal of Civil Engineering	2022	14488353
6272	Triple-step feed line-based compact ultra-wideband antenna with quadruple band-notch characteristics	Singh G., Singh U.	Singh, G., Department of Electronics Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Singh, U., Department of Electronics Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India	International Journal of Electronics	2022	207217
6273	Multi-material 3D printed PLA/PA6-TiO2 composite matrix: rheological, thermal, tensile, morphological and 4D capabilities	Kumar S., Singh R., Singh M.	Kumar, S., Dept. Of Mech. Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Dept. Of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India, Dept. Of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Singh, M., Dept. Of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India	Advances in Materials and Processing Technologies	2022	2374068X
6274	On shear resistance of almond skin reinforced PLA composite matrix-based scaffold using cancellous screw	Singh M., Kumar S., Singh R., Kumar R., Kumar V.	Singh, M., Dept. Of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India; Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Dept. of Mech. Engineering, CT University, Ludhiana, India; Singh, R., Dept. Of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India, Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Kumar, R., University Center for Research and Development, Chandigarh University, Punjab, Mohali, India; Kumar, V., Dept. Of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana, India	Advances in Materials and Processing Technologies	2022	2374068X
6275	Removal of alkalinity and metal toxicity from incinerated biomedical waste ash by using Bacillus halodurans	Kaur H., Siddique R., Rajor A.	Kaur, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Bioremediation Journal	2022	10889868
6276	Multi-Objective Profit Based Commitment and Dispatch of Cogeneration System Using Decision Making Strategy Approach	Anand H., Narang N., Dhillon J.S.	Anand, H., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Dhillon, J.S., Department of Electrical and Instrumentation Engineering, Sant Longowal Institute of Engineering & Technology, Sangrur, India	IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)	2022	2564602
6277	Examining continuance intention in business schools with digital classroom methods during COVID-19: a comparative study of India and Italy	Chauhan S., Goyal S., Bhardwaj A.K., Sergi B.S.	Chauhan, S., Jindal Global Business School, O. P. Jindal Global University, Sonapat, India; Goyal, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India, Institute for Competitiveness, Haryana, India; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Sergi, B.S., Center for International Development, Harvard University, Cambridge, United States, Department of Economics, University of Messina, Messina, Italy	Behaviour and Information Technology	2022	0144929X
6278	Degradation of polypropylene-poly-L-lactide blends by Bacillus isolates: a microcosm and field evaluation	Jain K., Bhunia H., Reddy M.S.	Jain, K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Bioremediation Journal	2022	10889868

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6279	Fractional-Order Notch Filter for Grid-Connected Solar PV System with Power Quality Improvement	Badoni M., Singh A., Pandey S., Singh B.	Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Electrical Engineering, Delhi Technological University, Rohini, India; Pandey, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, B., Department of Electrical Engineering, Indian Institute of Technology Delhi, New Delhi, India	IEEE Transactions on Industrial Electronics	2022	2780046
6280	A Privacy-Preserving and Untraceable Group Data Sharing Scheme in Cloud Computing	Shen J., Yang H., Vijayakumar P., Kumar N.	Shen, J., Nanjing University of Information Science & Technology, School of Computer and Software, Nanjing, 210044, China, Cyberspace Security Research Center, Peng Cheng Laboratory, Shenzhen, 518066, China; Yang, H., Nanjing University of Information Science & Technology, School of Computer and Software, Nanjing, 210044, China; Vijayakumar, P., University College of Engineering Tindivanam, Anna University, Melpakkam, Department of Computer Science and Engineering, Chennai, 604001, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taichung City, 41354, Taiwan, University of Petroleum and Energy Studies, School of Computing, Uttarakhand, Dehradun, 248007, India	IEEE Transactions on Dependable and Secure Computing	2022	15455971
6281	Bleustein–Gulyaev wave in a nonlocal piezoelectric layered structure	Sharma V., Kumar S.	Sharma, V., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mechanics of Advanced Materials and Structures	2022	15376494
6282	A thermo-mechanical fracture analysis of linear elastic materials using XIGA	Yadav A., Patil R.U., Singh S.K., Godara R.K., Bhardwaj G.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Patil, R.U., Mechanical Engineering Department, Indian Institute of Technology, Jammu & Kashmir, Jammu, India; Singh, S.K., Mechanical and Industrial Engineering Department, Indian Institute of Technology, Uttarakhand, Roorkee, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mechanics of Advanced Materials and Structures	2022	15376494
6283	Effect of Fiber Pre-treatment Methods on Hygrothermal Aging Behavior of Agave Fiber Reinforced Polymer Composites	Kamboj I., Jain R., Jain D., Bera T.K.	Kamboj, I., Department of Mechanical Engineering, Thapar Institute of Engineering Technology, Patiala, India; Jain, R., Department of Mechanical Engineering, Thapar Institute of Engineering Technology, Patiala, India; Jain, D., Department of Mechanical Engineering, Thapar Institute of Engineering Technology, Patiala, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering Technology, Patiala, India	Journal of Natural Fibers	2022	15440478
6284	Monitoring structural behaviour of concrete beams reinforced with steel and GFRP bars using acoustic emission and digital image correlation techniques	Sharma G., Sharma S., Sharma S.K.	Sharma, G., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Structure and Infrastructure Engineering	2022	15732479
6285	Supplier resilience assessment in project-driven supply chains	Shishodia A., Verma P., Jain K.	Shishodia, A., Operations Management, LM Thapar School of Management, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Verma, P., Industrial Engineering and Manufacturing Systems (IEMS), National Institute of Industrial Engineering (NITIE), Vihar Lake, Mumbai, India; Jain, K., Shailesh J. Mehta School of Management, Indian Institute of Technology, Mumbai, India	Production Planning and Control	2022	9537287
6286	Is university performance embedded in university-industry collaboration, marketization and information disclosure? Evidence from India	Chatterji N., Rameshwar R., Kiran R.	Chatterji, N., School of Humanities & Social Sciences, Thapar University, Patiala, India; Rameshwar, R., LMTSOM, Thapar University, Patiala, India; Kiran, R., School of Humanities & Social Sciences, Thapar University, Patiala, India	Journal of Marketing for Higher Education	2022	8841241
6287	IoT-Pulse: machine learning-based enterprise health information system to predict alcohol addiction in Punjab (India) using IoT and fog computing	Dhillon A., Singh A., Vohra H., Ellis C., Varghese B., Gill S.S.	Dhillon, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Vohra, H., Electronics and Communication Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Ellis, C., Department of Anaesthesia, Princess Alexandra Hospital NHS Trust, Harlow, United Kingdom; Varghese, B., School of Electronics, Electrical Engineering and Computer Science, Queen's University Belfast, Belfast, United Kingdom; Gill, S.S., School of Electronic Engineering and Computer Science, Queen Mary University of London, London, United Kingdom	Enterprise Information Systems	2022	17517575
6288	Impact of information on winners' curse and long run performance of initial public offerings	Chhabra S., Kiran R.	Chhabra, S., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Finance and Economics	2022	10769307
6289	Impact of demographic factors on the financial performance of women-owned micro-enterprises in India	Harpriya, Sharma R.K., Sah A.N.	Harpriya, School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Sah, A.N., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Finance and Economics	2022	10769307

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6290	Optimization of Fractional Order Controllers for AVR System Using Distance and Levy-Flight Based Crow Search Algorithm	Bhullar A.K., Kaur R., Sondhi S.	Bhullar, A.K., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Kaur, R., Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Sondhi, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IETE Journal of Research	2022	3772063
6291	Improved surface morphology by reforming of oxygen functional groups of Indian coal upon irradiating with microwave radiations	Singh H., Kumar S., Mohapatra S.K.	Singh, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, S., Department of Mechanical Department, National Institute of Technology, Jamshedpur, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Coal Preparation and Utilization	2022	19392699
6292	Effect of accelerated carbonation curing on near surface properties of concrete	Sharma D., Goyal S.	Sharma, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	European Journal of Environmental and Civil Engineering	2022	19648189
6293	On mechanical characterization of 3-D printed PLA-PVC-wood dust-Fe3O4 composite	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Department of Production Engineering, Guru Nanak Dev Engineering College, Punjab, Ludhiana, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2022	8927057
6294	Utilizing Electric Vehicles and Renewable Energy Sources for Load Frequency Control in Deregulated Power System Using Emotional Controller	Dutta A., Prakash S.	Dutta, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	IETE Journal of Research	2022	3772063
6295	Improvement in head loss characteristics of fine particulate coal-water suspension with addition of coarser particulate	Singh M.K., Kumar S., Ratha D., Sandhu H.	Singh, M.K., Department of Mechanical Engineering, Chandigarh University, (Punjab), Mohali, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology Jamshedpur, Jamshedpur, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering Technology, (Punjab), Patiala, India; Sandhu, H., Department of Chemical Engineering, Chandigarh University, (Punjab), Mohali, India	International Journal of Coal Preparation and Utilization	2022	19392699
6296	Unusual critical behavior of Griffiths ferromagnet Ho2NiMnO6 at magnetic phase transition	Chakraborty T., Elizabeth S.	Chakraborty, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab147001, India; Elizabeth, S., Department of Physics, Indian Institute of Science, Bangalore, 560012, India	Journal of Physics Condensed Matter	2023	9538984
6297	Mechanical properties of cross rolled CoCrFeMnNi high entropy alloy	Nakhate A.D., Kumar N., Sharma P., Yadav P.C.	Nakhate, A.D., School of Materials Science and Technology, Indian Institute of Technology (BHU), Varanasi, 221005, India; Kumar, N., School of Materials Science and Technology, Indian Institute of Technology (BHU), Varanasi, 221005, India; Sharma, P., Department of Mechanical Engineering and Mechanics, Lehigh University, Bethlehem, PA 18015, United States; Yadav, P.C., Mechanical Engineering Department, Thapar Institute of Engineering and Technology PatialaPunjab 147001	Journal of Alloys and Compounds	2023	9258388
6298	Synthetic waste derived graphitic carbon nitride (g-CN) and g-CN/carbon hybrid for supercapacitors	Devi M., Upadhyay S., Mir R.A., Kumar N., Sharma S.	Devi, M., School of Mechanical and Materials Engineering, Indian Institute of technology, HP, Mandi, 175075, India; Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mir, R.A., School of Engineering, University of British Columbia (UBC), Okanagan, Canada; Kumar, N., Department of Electronics and Communication Engineering, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, 248002, India; Sharma, S., School of Mechanical and Materials Engineering, Indian Institute of technology, HP, Mandi, 175075, India	Journal of Energy Storage	2023	2352152X
6299	Biocomposite-based electrochemical chip for ethylene detection	Gal-Oz R., Gandhi S., Ogungbile A., Roy D., Ghosh M., Vernick S.	Gal-Oz, R., Department of Sensing, Information and Mechanization Engineering, Institute of Agricultural Engineering, ARO Volcani Center, 68 Hamaccabim Rd, Rishon Lezion, 5025001, Israel; Gandhi, S., TIET-TAU Center of Excellence for Food Security, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ogungbile, A., Department of Sensing, Information and Mechanization Engineering, Institute of Agricultural Engineering, ARO Volcani Center, 68 Hamaccabim Rd, Rishon Lezion, 5025001, Israel, Department of Soil and Water Sciences, Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot, 761001, Israel; Roy, D., TIET-TAU Center of Excellence for Food Security, Punjab, Patiala, 147004, India; Ghosh, M., TIET-TAU Center of Excellence for Food Security, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Vernick, S., Department of Sensing, Information and Mechanization Engineering, Institute of Agricultural Engineering, ARO Volcani Center, 68 Hamaccabim Rd, Rishon Lezion, 5025001, Israel	Sensors and Actuators B: Chemical	2023	9254005
6300	Systematic survey on generative adversarial networks for brain tumor segmentation and classification	Kaur J., Singh A.K., Jindal N.	Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2023	15320626

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6301	A mat-heuristics approach for electric vehicle route optimization under multiple recharging options and time-of-use energy prices	Kumar A., Aggarwal A., Rani A., Bedi J., Kumar R.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Rani, A., Department of Mathematics, Bennett University, Greater Noida, India; Bedi, J., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2023	15320626
6302	Customized Synthesis of 2D Ti3C2 MXene for Improved Overall Water Splitting	Sharma P., Kainth S., Pandey O.P., Mahajan R.	Sharma, P., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kainth, S., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mahajan, R., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India,	ACS Applied Nano Materials	2023	25740970
6303	ON THE PYTHAGOREAN ORTHOGONALITY OF HILBERT BOUNDED LINEAR OPERATORS	Pal K., Chandok S.	Pal, K., SCHOOL OF MATHEMATICS, THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PUNJAB, PATIALA, India; Chandok, S., SCHOOL OF MATHEMATICS, THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PO BOX 147001, PUNJAB, PATIALA, India	Gulf Journal of Mathematics	2023	23094966
6304	Meshfree algorithms for analysis and computational modeling of multidimensional hyperbolic wave models	Pandit S., Verma P., Kumar M., Poonam	Pandit, S., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Verma, P., Baba Mastnath University, Rohtak, India; Kumar, M., Baba Mastnath University, Rohtak, India; Poonam, Govt College for Women, Jhajjar, India	Engineering Computations (Swansea, Wales)	2023	2644401
6305	Ni(OH)2 nanosheets and highly stable Ni(OH)2/GO nanocomposite for its improved OER performance	Upadhyay S., Mir R.A., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Mir, R.A., University of British Columbia, Canada; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Hydrogen Energy	2023	3603199
6306	Research progress on working conditions in supply chains: a comprehensive literature review and future research propositions	Bag S., Dhamija P.	Bag, S., Department of Transport and Supply Chain Management, University of Johannesburg, Auckland Park, South Africa; Dhamija, P., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa	TQM Journal	2023	17542731
6307	Some T-spherical fuzzy dombi hamy mean operators and their applications to multi-criteria group decision-making process	Hussain A., Ullah K., Al-Quran A., Garg H.	Hussain, A., Department of Mathematics, Riphah International University (Lahore Campus), Islamabad, Pakistan; Ullah, K., Department of Mathematics, Riphah International University (Lahore Campus), Islamabad, Pakistan; Al-Quran, A., Basic Sciences Department, Preparatory Year Deanship, King Faisal University, Al-Ahsa, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology, Deemed University, Punjab, Patiala, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, Jordan, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Nasiriyah, Dhi Qar, Iraq	Journal of Intelligent and Fuzzy Systems	2023	10641246
6308	Modelling the magnetization data of Fe3O4 nanoparticles above blocking temperature	Kaur N.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nano Express	2023	2632959X
6309	Unsupervised Classification under Uncertainty: The Distance-Based Algorithm	Ghanaiei A., Kagan E., Kumar P., Raviv T., Glynn P., Ben-Gal I.	Ghanaiei, A., Department of Industrial Engineering, Tel-Aviv University, Ramat-, Aviv, Tel-Aviv, 69978, Israel; Kagan, E., Department of Industrial Engineering and Management, Faculty of Engineering, Ariel University, Ariel, 40700, Israel; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Raviv, T., Department of Industrial Engineering, Tel-Aviv University, Ramat-, Aviv, Tel-Aviv, 69978, Israel; Glynn, P., Department of Management Science and Engineering, Institute of Computational and Mathematical Engineering, Stanford University, Stanford, CA 94305, United States; Ben-Gal, I., Department of Industrial Engineering, Tel-Aviv University, Ramat-, Aviv, Tel-Aviv, 69978, Israel	Mathematics	2023	22277390
6310	Study of the impact of information and limited medical resources on Zika prevalence: an optimal control approach	Manisha, Kumar A.	Manisha, School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	European Physical Journal Plus	2023	21905444
6311	Chitosan-insulin nano-formulations as critical modulators of inflammatory cytokines and Nrf-2 pathway to accelerate burn wound healing	Sharda D., Ghosh S., Kaur P., Basu B., Choudhury D.	Sharda, D., Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ghosh, S., Department of Neuroendocrinology and Experimental Hematology, Chittaranjan National Cancer Institute, Kolkata, 700026, India; Kaur, P., Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Basu, B., Department of Neuroendocrinology and Experimental Hematology, Chittaranjan National Cancer Institute, Kolkata, 700026, India; Choudhury, D., Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Discover Nano	2023	27319229

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6312	Comparative transcriptome analysis of ectomycorrhizal fungus <i>Pisolithus albus</i> in response to individual and combined stress of copper and cadmium	Chot E., Medicherla K.M., Reddy M.S.	Chot, E., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India; Medicherla, K.M., Birla Institute of Scientific Research, Statue Circle, Jaipur, 302001, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, Punjab 147004, India	Environmental science and pollution research international	2023	16147499
6313	To exploring the role of probiotics, plant-based fermented products, and paraprobiotics as anti-inflammatory agents in promoting human health	Kumar H., Dhalaria R., Guleria S., Cimler R., Choudhary R., Dhanjal D.S., Singh R., Kimta N., Dulta K., Pathera A.K., Khan A., Nausad M., Alomar S.Y., Manickam S., Kuča K.	Kumar, H., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Rokitanskeho 62, Hradec Kralove, 50003, Czech Republic; Dhalaria, R., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, 173229, India; Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Cimler, R., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Rokitanskeho 62, Hradec Kralove, 50003, Czech Republic; Choudhary, R., School of Health Sciences & Technology, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India; Dhanjal, D.S., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Singh, R., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Kimta, N., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, 173229, India; Dulta, K., Department of Food Technology, School of Applied and Life Sciences, Uttaranchal University, Uttarakhand, Dehradun, 248007, India; Pathera, A.K., Amity Institute of Food Technology, Amity University, Noida, 201313, India; Khan, A., Faculty of Applied Sciences and Biotechnology, Shoolini University of Biotechnology and Management Sciences, Solan, 173229, India; Nausad, M., Univ. Bourgogne Franche-Comté, AgroSup Dijon, PAM UMR A 02.102, Dijon, F-21000, France; Alomar, S.Y., Zoology Department, King Saud University, College of Science, Riyadh, 11451, Saudi Arabia; Manickam, S., Petroleum and Chemical Engineering, Faculty of Engineering, Universiti Teknologi Brunei, Bandar, Seri Begawan, BE1410, Brunei Darussalam; Kuča, K., Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, 50003, Czech Republic, Biomedical Research Center, University Hospital Hradec Kralove, Hradec Kralove, Czech Republic	Journal of Agriculture and Food Research	2023	26661543
6314	Decay Properties of 253, 255Rf Using the Relativistic Mean-Field Framework within the Preformed Cluster-Decay Model	Majekodunmi J.T., Jain N., Anwar K., Abdullah N., Kumar R., Bhuyan M.	Majekodunmi, J.T., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Arau, Perlis, 02600, Malaysia; Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Anwar, K., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Arau, Perlis, 02600, Malaysia; Abdullah, N., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Arau, Perlis, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, Universiti Malaya, Kuala Lumpur, 50603, Malaysia	Physics of Particles and Nuclei Letters	2023	15474771
6315	Asymmetric impact of higher order diffraction on narrow beam dynamics in nonlocal nonlinear media	Mishra M., Kajala S.K., Shwetanshumala S., Sharma M., Jana S.	Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Kajala, S.K., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Shwetanshumala, S., P G Department of Physics, Patliputra University, Bihar, Patna, 800020, India; Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Applied Physics B: Lasers and Optics	2023	9462171
6316	Molecular, in silico and expression studies on lipoxigenases (LOXs) in potato (<i>Solanum tuberosum</i> L.)	Kaur Y., Das N.	Kaur, Y., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	3 Biotech	2023	2190572X
6317	Modulation instability in a microresonator with graphene saturable absorber, frequency selective feedback and external potential	Saini A., Jana S.	Saini, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physica Scripta	2023	318949
6318	Role of thioredoxin in chronic obstructive pulmonary disease (COPD): a promising future target	Kansal H., Chopra V., Garg K., Sharma S.	Kansal, H., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Chopra, V., Department of Pulmonary Medicine, Government Medical College, Patiala, India; Garg, K., Department of Pulmonary Medicine, Government Medical College, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Respiratory Research	2023	14659921
6319	DGT-based pulse shaping filter for Generalized Frequency Division Multiplexing system	Kaur M., Joshi H.D., kumar A., Magarini M.	Kaur, M., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Joshi, H.D., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; kumar, A., IIT-BHU, Banaras Hindu University Campus, Uttar Pradesh, Varanasi, 221005, India; Magarini, M., Politecnico di Milano, Piazza Leonardo da Vinci, 32, Milano MI, 20133, Italy	Physical Communication	2023	18744907

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6320	Understanding immune checkpoints and PD-1/PD-L1-mediated immune resistance towards tumour immunotherapy	Singh S., Singh N., Baranwal M., Sharma S., Devi S.S.K., Kumar S.	Singh, S., School of Bioscience and Bioengineering, D Y Patil International University, Maharashtra, Pune, 411051, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, S.S.K., Department of Regulatory Affairs, National Institute of Pharmaceutical Education and Research, Telangana, Hyderabad, 500037, India; Kumar, S., Department of Regulatory Affairs, National Institute of Pharmaceutical Education and Research, Telangana, Hyderabad, 500037, India	3 Biotech	2023	2190572X
6321	Electrochemiluminescent quantum dots as emerging next generation sensing platforms	Mehta J., Dilbaghi N., Kumar Singhal N., Marrazza G., Kaushik A., Kumar S.	Mehta, J., Department of Bio and Nano Technology, Guru Jambheshwar University of Science and Technology, Haryana, Hisar, 125001, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Dilbaghi, N., Department of Bio and Nano Technology, Guru Jambheshwar University of Science and Technology, Haryana, Hisar, 125001, India; Kumar Singhal, N., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, 140306, India; Marrazza, G., Department of Chemistry "Ugo Schiff," University of Florence, Via della Lastruccia 3, Florence, Sesto Fiorentino, 50019, Italy; Kaushik, A., NanoBioTech Laboratory, Department of Environmental Engineering, Florida Polytechnic University, Lakeland, FL 33805-8531, United States; Kumar, S., Department of Bio and Nano Technology, Guru Jambheshwar University of Science and Technology, Haryana, Hisar, 125001, India, Physics Department, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India	Chemical Engineering Journal	2023	13858947
6322	Uncertainty and decision-making with multi-polar interval-valued neutrosophic hypersoft set: A distance, similarity measure and machine learning approach	Saqlain M., Garg H., Kumam P., Kumam W.	Saqlain, M., Departments of Mathematics, Faculty of Science, the King Mongkuta's University of Technology Thonburi (KMUTT), Bangkok, 10140, Thailand; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Kumam, P., Departments of Mathematics, Faculty of Science, the King Mongkuta's University of Technology Thonburi (KMUTT), Bangkok, 10140, Thailand; Kumam, W., Department of Mathematics and Computer Science, Faculty of Science and Technology, Rajamangala University of Technology Thanyaburi (RMUTT), Pathum Thani12110, Thailand	Alexandria Engineering Journal	2023	11100168
6323	Revealing performance limiting factors in Cu ₂ BaSnS ₄ thin film solar cells	Jyoti, Mohanty B.C.	Jyoti, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mohanty, B.C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Optik	2023	304026
6324	Dielectric breakdown analysis of ester-mineral oil blend dispersed with graphene oxide for transformers under thermal stress	Siddique Z.B., Basak P., Basu S.	Siddique, Z.B., Electrical Engineering Department, Indian Institute of Technology Kanpur, Kanpur, India; Basak, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2023	2562499
6325	Artificial Neural Network Based Sub-surface Defect Detection in Glass Fiber Reinforced Polymers: Nondestructive Evaluation 4.0	Dua G., Arora V., Mulaveesala R.	Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Rd, Adarsh Nagar, Prem Nagar, Punjab, Patiala, 147004, India; Arora, V., InfraRed Vision & Automation Pvt. Ltd, Ward NO 8, Sun City, Punjab, Rupnagar, 140001, India; Mulaveesala, R., InfraRed Imaging Laboratory (IRIL), Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Sensing and Imaging	2023	15572064
6326	EEM-CRP: Energy-Efficient Meta-Heuristic Cluster-Based Routing Protocol for WSNs	Chaurasia S., Kumar K., Kumar N.	Chaurasia, S., National Institute of Technology Uttarakhand, Department of Computer Science and Engineering, Srinagar, 246174, India; Kumar, K., National Institute of Technology Uttarakhand, Department of Computer Science and Engineering, Srinagar, 246174, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India	IEEE Sensors Journal	2023	1530437X
6327	Correction: Effect of cognitive retraining treatment in mild to moderate depressive disorders (Psicologia: Reflexão e Crítica, (2023), 36, 1, (28), 10.1186/s41155-023-00269-9)	Gupta A., Kumari S.	Gupta, A., Department of Psychiatry, Government Medical College & Hospital, Chandigarh, India; Kumari, S., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India	Psicologia: Reflexão e Crítica	2023	1027972
6328	Performance of GFDM system with channel estimation error over FTR mmWave channels for 5G and beyond communication	Kaur M., Joshi H.D.	Kaur, M., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Joshi, H.D., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	AEU - International Journal of Electronics and Communications	2023	14348411

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6329	Therapeutic potential of lactoferrin-coated iron oxide nanospheres for targeted hyperthermia in gastric cancer	Attri K., Chudasama B., Mahajan R.L., Choudhury D.	Attri, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chudasama, B., School of Physics and Material Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mahajan, R.L., Department of Mechanical Engineering, Department of Materials Science and Engineering, Virginia Tech, Blacksburg, VA 24061, United States, TIET-VT Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Scientific Reports	2023	20452322
6330	Choquet integral based deep learning model for COVID-19 diagnosis using explainable AI for NG-IoT models	Deepanshi, Budhiraja I., Garg D., Kumar N.	Deepanshi, School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, India; Garg, D., School of Computer Science and Artificial Intelligence, SR University, Warangal, Telangana, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Computer Communications	2023	1403664
6331	Protein-modified nanomaterials: emerging trends in skin wound healing	Sharda D., Kaur P., Choudhury D.	Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Discover Nano	2023	27319229
6332	A Study on Aging Characteristics of Asphalt Binders Modified with Waste EPDM Rubber and Tire Pyrolysis Oil	Kumar A., Choudhary R., Kumar A.	Kumar, A., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Choudhary, R., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Kumar, A., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Materials in Civil Engineering	2023	8991561
6333	Photocatalysis based hydrogen production and antibiotic degradation prediction using neural networks	Sethi S., Dhir A., Arora V.	Sethi, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Reaction Kinetics, Mechanisms and Catalysis	2023	18785190
6334	Water desalination using PSO-ANN techniques: A critical review	Mahadeva R., Kumar M., Gupta V., Manik G., Gupta V., Alawatugoda J., Manik H., Patole S.P., Gupta V.	Mahadeva, R., Department of Physics, Khalifa University, Abu Dhabi, 127788, United Arab Emirates, Division of Research and Innovation, Uttaranchal University, Dehradun, 248012, India; Kumar, M., Department of Instrumentation and Control Engineering, Dr. B R Ambedkar National Institute of Technology, Punjab, Jalandhar, 144011, India; Gupta, V., Department of Electrical and Computer Engineering, Northwestern University, Evanston, IL 60208, United States; Manik, G., Department of Polymer and Process Engineering, Indian Institute of Technology, Uttarakhand, Roorkee, 247667, India; Gupta, V., College of Information Science and Engineering, Ritsumeikan University, Kyoto, Kita-ku, 603-8577, Japan; Alawatugoda, J., Research & Innovation Centers Division, Faculty of Resilience, Rabdan Academy, Abu Dhabi, 114646, United Arab Emirates; Manik, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Patole, S.P., Department of Physics, Khalifa University, Abu Dhabi, 127788, United Arab Emirates; Gupta, V., Department of Physics, Khalifa University, Abu Dhabi, 127788, United Arab Emirates	Digital Chemical Engineering	2023	27725081
6335	Temperature variation of surface magnetization in antiferromagnetic six lines ferrhydrite nanoparticles	Rani C., Tiwari S.D.	Rani, C., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, S.D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Magnetism and Magnetic Materials	2023	3048853
6336	Post-heating evaluation of fibre reinforced concrete with LC3 binder as replacement to OPC	Sharma A., Roy A.B.D., Bansal P.P.	Sharma, A., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Roy, A.B.D., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bansal, P.P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Construction and Building Materials	2023	9500618
6337	Enhancing mechanical properties of polycarbonate parts developed by fused filament fabrication using RSM-TOPSIS hybrid approach	Faroze F., Srivastava V., Batish A.	Faroze, F., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Srivastava, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Batish, A., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Polymer Engineering and Science	2023	323888
6338	Properties and biodegradation modeling of abiotically treated modified-cobalt stearate filled polypropylene films	Sable S., Ahuja S.	Sable, S., Department of Chemical Engineering, Vishwakarma Institute of Technology, 411037, Maharashtra, Pune, India; Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, (Deemed to Be University), Punjab, Patiala, 147004, India	Iranian Polymer Journal (English Edition)	2023	10261265

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6339	An extended EDAS method with circular intuitionistic fuzzy value features and its application to multi-criteria decision-making process	Garg H., Ünver M., Olgun M., Türkarıslan E.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Ünver, M., Center for Global Health Research, Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences, Chennai, 602117, India, Faculty of Science, Department of Mathematics, Ankara University, Ankara, 06100, Turkey; Olgun, M., College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Nasiriyah, Dhi Qar, Iraq, Faculty of Science, Department of Mathematics, Ankara University, Ankara, 06100, Turkey; Türkarıslan, E., Faculty of Science, Department of Mathematics, Ankara University, Ankara, 06100, Turkey, Faculty of Arts And Science, Department of Mathematics, TED University, Ankara, 06420, Turkey	Artificial Intelligence Review	2023	2692821
6340	Structurally modified bioglasses synthesized using agro-food wastes and conventional sources for bone regeneration application	Mattu N.K., Singh K.	Mattu, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Ceramics International	2023	2728842
6341	Effect of nano-silica on fatigue behavior of glass fiber-reinforced epoxy composite laminates: A Weibull distribution approach	Gupta A., Singh M., Saini J.S.	Gupta, A., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, India; Singh, M., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Polymer Composites	2023	2728397
6342	Experimental investigations on polydopamine coated poly lactic acid based biomaterial fabricated using 3D printing for orthopedic applications	Sharma S., Gupta V., Mudgal D.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India	Materials Chemistry and Physics	2023	2540584
6343	Effect of cognitive retraining treatment in mild to moderate depressive disorders	Aarzo, Kumari S.	Aarzo, Department of Psychiatry, Government Medical College & Hospital, Chandigarh, India; Kumari, S., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India	Psicologia: Reflexao e Critica	2023	1027972
6344	Rfpossih: reducing false positive text detection sequels in scenery images using hybrid technique	Yadav A.K., Sharma A., Yadav V., Kalia N.	Yadav, A.K., Department of Computer Science and Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, 211004, India; Sharma, A., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India; Yadav, V., Department of Computer Science and Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, 211004, India; Kalia, N., Department of Computer Science, Hindu Girls College, Haryana, Sonapat, 131001, India	International Journal of System Assurance Engineering and Management	2023	9756809
6345	Response of DC biased magnetolectric coupling in 0–3 type particulate lanthanum modified PZT-CFO composites	Vandana, Goel R., Shashikant, Singh A.K., Kumar S.	Vandana, Physics Department, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Goel, R., Physics Department, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Shashikant, Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Electronics and Communication Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Kumar, S., Physics Department, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India	Materials Today Communications	2023	23524928
6346	People’s perceptions on COVID-19 vaccination: an analysis of twitter discourse from four countries	Verma M., Moudgil N., Goel G., Pardeshi P., Joseph J., Kumar N., Singh K., Singh H., Kodali P.B.	Verma, M., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Moudgil, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pardeshi, P., Jamsetji Tata School of Disaster Studies, Tata Institute of Social Sciences, Deonar, Mumbai, 400088, India, Tata Center for Technology and Design, Indian Institute of Technology Bombay, Mumbai, India; Joseph, J., Jamsetji Tata School of Disaster Studies, Tata Institute of Social Sciences, Deonar, Mumbai, 400088, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, Faculty of computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia, Department of Computer Science and Engineering, Graphics Era University, Dehradun, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon; Singh, K., Department of Civil Engineering, MM Engineering College, Maharishi Markandeshwar (Deemed to Be University), Haryana, Mullana-Ambala, 133207, India; Singh, H., Chemistry Department, RIMT UNIVERSITY, Punjab, Mandi Gobindgarh, 147301, India; Kodali, P.B., Department of Public Health and Community Medicine, Central University of Kerala, Kerala, Kasaragod, 671320, India	Scientific Reports	2023	20452322
6347	Wavelets computational modeling of nonlinear coupled reaction–diffusion models arising in chemical processes	Pandit S.	Pandit, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Mathematical Methods in the Applied Sciences	2023	1704214

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6348	An Integrated Spherical Fuzzy Multi-criterion Group Decision-Making Approach and Its Application in Digital Marketing Technology Assessment	Gao K., Liu T., Yue D., Simic V., Rong Y., Garg H.	Gao, K., School of Management, Shanghai University of Engineering Science, Shanghai, 201620, China; Liu, T., School of International Trade and Economics, Shanghai Lixin University of Accounting and Finance, Shanghai, 200030, China; Yue, D., Department of Marketing and Communication, China Europe International Business School, Shanghai, 201206, China; Simic, V., Faculty of Transport and Traffic Engineering, University of Belgrade, Vojvode Stepe 305, Belgrade, 11010, Serbia, Department of Industrial Engineering and Management, College of Engineering, Yuan Ze University, Yuandong Rd., Zhongli Dist., Taoyuan, 320315, Taiwan; Rong, Y., School of Management, Shanghai University, Shanghai, 200444, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphics Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq	International Journal of Computational Intelligence Systems	2023	18756891
6349	A mathematical model based on modified ID3 algorithm for healthcare diagnostics model	Agarwal A., Jain K., Yadav R.K.	Agarwal, A., Department of Computer Science, Ramanujan College, University of Delhi, Delhi, India; Jain, K., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Yadav, R.K., Department of Electricals and Computers, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of System Assurance Engineering and Management	2023	9756809
6350	MCLA Task Offloading Framework for 5G-NR-V2X-Based Heterogeneous VECNs	Mirza M.A., Junsheng Y., Raza S., Ahmed M., Asif M., Irshad A., Kumar N.	Mirza, M.A., BUPT-QMUL em Theory and Application International Research Laboratory, Beijing University of Posts and Telecommunications, Beijing, 100876, China; Junsheng, Y., BUPT-QMUL em Theory and Application International Research Laboratory, Beijing University of Posts and Telecommunications, Beijing, 100876, China, School of Physics and Electronic Information, Anhui Normal University, Wuhu, 241003, China, School of Intelligence and Digital Engineering, Luoyang Vocational College of Science and Technology, Luoyang, 471000, China; Raza, S., Department of Computer Science, National Textile University, Faisalabad, 37000, Pakistan; Ahmed, M., School of Computer and Information Science, Institute for Ai Industrial Technology Research, Hubei Engineering University, Xiaogan, 432000, China; Asif, M., Department of Computer Science, National Textile University, Faisalabad, 37000, Pakistan; Irshad, A., Department of Computer Science and Software Engineering, International Islamic University, Islamabad, 44000, Pakistan, Faculty of Computer Science, Asghar Mall College Rawalpindi, Government of the Punjab, Rawalpindi, 46000, Pakistan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Computer Engineering, Graphic Era (Deemed to Be University), Uttarakhand, Dehradun, 248002, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and Information Technology (IT), King Abdulaziz University, Jeddah, 21589, Saudi Arabia	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
6351	Possibilistic index-based multi-criteria decision-making with an unknown weight of air pollution model under bipolar fuzzy environment	Garai T., Garg H., Biswas G.	Garai, T., Department of Mathematics, Syamsundar College, West Bengal, Syamsundar, Purba Bardhaman, 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Biswas, G., Department of Geology, Presidency University, 86/1 College Street, West Bengal, Kolkata, 700073, India	Soft Computing	2023	14327643
6352	Probiotic fermentation enhances bioaccessibility of lycopene, polyphenols and antioxidant capacity of guava fruit (Psidium guajava L)	Kaur H., Ghosh M.	Kaur, H., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Ghosh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Agriculture and Food Research	2023	26661543
6353	Hybrid binary grey wolf naked mole-rat algorithm for fragment-type UWB antenna optimization using time-varying transfer functions[Formula presented]	Singh G., Singh U.	Singh, G., Department of ECE, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India	Expert Systems with Applications	2023	9574174
6354	Identifying the impact of employer branding in the retention of nurses: the mediating role of organizational culture and career development	Goyal R., Kaur G.	Goyal, R., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India; Kaur, G., School of Humanities & Social Sciences, Thapar Institute of Engineering & Technology, Patiala, India	Humanities and Social Sciences Communications	2023	26629992

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6355	Chitosan functionalized Mn3O4 nanoparticles counteracts ulcerative colitis in mice through modulation of cellular redox state	Mondal S., Das M., Ghosh R., Singh M., Adhikari A., Darbar S., Kumar Das A., Bhattacharya S.S., Pal D., Bhattacharyya D., Ahmed A.S.A., Mallick A.K., Al-Rooqi M.M., Moussa Z., Ahmed S.A., Pal S.K.	Mondal, S., Department of Chemical, Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Kolkata, Salt Lake, 700106, India; Das, M., Department of Zoology, Uluberia College, University of Calcutta, Howrah, Uluberia, 711315, India, Department of Zoology, Vidyasagar University, Midnapore, Rangamati, 721102, India; Ghosh, R., Department of Chemical, Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Kolkata, Salt Lake, 700106, India; Singh, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Adhikari, A., Department of Chemical, Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Kolkata, Salt Lake, 700106, India; Darbar, S., Research & Development Division, Dey's Medical Stores (Mfg.) Ltd, 62, Bondel Road, Kolkata, Ballygunge, 700019, India; Kumar Das, A., Department of Pathology, Cooch Behar Government Medical College & Hospital, Vivekananda Rd, Khagrabari, West Bengal, Cooch Behar, 736101, India; Bhattacharya, S.S., Department of Zoology, Uluberia College, University of Calcutta, Howrah, Uluberia, 711315, India; Pal, D., Department of Zoology, Uluberia College, University of Calcutta, Howrah, Uluberia, 711315, India; Bhattacharyya, D., Department of Gynecology & Obstetrics, Nil Ratan Sircar Medical College & Hospital, 138, AIC Bose Road, Sealdah, Raja Bazar, Kolkata, 700014, India; Ahmed, A.S.A., Faculty of Medicine, Assiut University, Assiut, 71516, Egypt; Mallick, A.K., Department of Pediatric Medicine, Nil Ratan Sircar Medical College and Hospital, 38, Acharya Jagadish Chandra Bose Rd, Sealdah, Raja Bazar, West Bengal, Kolkata, 700014, India; Al-Rooqi, M.M., Department of Chemistry, Faculty of Applied Science, Umm Al-Qura University, Makkah, 21955, Saudi Arabia; Moussa, Z., Department of Chemistry, College of Science, United Arab Emirates University, P.O. Box 15551, Al Ain, United Arab Emirates; Ahmed, S.A., Department of Chemistry, Faculty of Applied Science, Umm Al-Qura University, Makkah, 21955, Saudi Arabia, Department of Chemistry, Faculty of Science, Assiut University, Assiut, 71516, Egypt; Pal, S.K., Department of Chemical, Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Kolkata, Salt Lake, 700106, India, Department of Zoology, Uluberia College, University of Calcutta, Howrah, Uluberia, 711315, India	Communications Biology	2023	23993642
6356	A fraction ranking-based multi-criteria decision-making method for water resource management under bipolar neutrosophic fuzzy environment	Garai T., Garg H., Biswas G.	Garai, T., Department of Mathematics, Syamsundar College, Syamsundar, West Bengal, Purba Bardhaman, 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Biswas, G., Department of Geology, Presidency University, 86/1 College Street, Kolkata, 700073, India	Artificial Intelligence Review	2023	2692821
6357	LEA U-Net: a U-Net-based deep learning framework with local feature enhancement and attention for retinal vessel segmentation	Ouyang J., Liu S., Peng H., Garg H., Thanh D.N.H.	Ouyang, J., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Liu, S., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Peng, H., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Thanh, D.N.H., Department of Information Technology, School of Business Information Technology, University of Economics Ho Chi Minh City, Ho Chi Minh City, Viet Nam	Complex and Intelligent Systems	2023	21994536
6358	Introducing machine learning model to response surface methodology for biosorption of methylene blue dye using <i>Triticum aestivum</i> biomass	Kumari S., Verma A., Sharma P., Agarwal S., Rajput V.D., Minkina T., Rajput P., Singh S.P., Garg M.C.	Kumari, S., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector-125, Uttar Pradesh, Noida, 201313, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, P., Department of Hydrology, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Agarwal, S., Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh, Prayagraj, 211004, India; Rajput, V.D., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Minkina, T., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Rajput, P., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Singh, S.P., Surveying Engineering Department, Wollega University, Nekemte City, Ethiopia; Garg, M.C., Amity Institute of Environmental Sciences, Amity University Uttar Pradesh, Sector-125, Uttar Pradesh, Noida, 201313, India	Scientific Reports	2023	20452322
6359	A novel approach to identify kink in 2D map using the spline technique on real map data	Singh R., Rana P.S., Jindal N.	Singh, R., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6360	Language model based suggestions of next possible Gurmukhi character or word in online handwriting recognition system	Singh H., Sharma R.K., Singh V.P.	Singh, H., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, 140401, India; Sharma, R.K., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, 147004, India; Singh, V.P., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
6361	An intuitionistic approach for the predictability of anti-angiogenic inhibitors in cancer diagnosis	Ansar S.A., Aggarwal S., Arya S., Haq M.A., Mittal V., Gared F.	Ansar, S.A., Department of Computer Application, Babu Banarasi Das University, Lucknow, India; Aggarwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Arya, S., Department of Computer Application, Babu Banarasi Das University, Lucknow, India; Haq, M.A., Department of Computer Science, College of Computer and Information Sciences, Majmaah University, Al Majmaah, Saudi Arabia; Mittal, V., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, India; Gared, F., Faculty of Electrical and Computer Engineering, Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia	Scientific Reports	2023	20452322
6362	Hygrothermal effect on strength of thermally cured glass epoxy nanocomposite made joints	Dhiman N., Saini J.S., Kumar M.	Dhiman, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Mechanical Engineering Department, Chandigarh University, Punjab, Mohali, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
6363	Application of PZT-Based Piezoelectric Element for Vibration Measurement and Rotor Fault Detection	Chaudhary R., Purohit A., Singh J.	Chaudhary, R., Department of Mechanical Engineering, TIET, Punjab, Patiala, India; Purohit, A., Department of Mechanical Engineering, TIET, Punjab, Patiala, India; Singh, J., Department of Mechanical Engineering, TIET, Punjab, Patiala, India	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	2023	22286187
6364	Pervasive hydrous carbonatitic liquids mediate transfer of carbon from the slab to the subarc mantle	Chen W., Zhang G., Keshav S., Li Y.	Chen, W., Center of Deep Sea Research Institute of Oceanology, Chinese Academy of Sciences, Qingdao, 266071, China; Zhang, G., Center of Deep Sea Research Institute of Oceanology, Chinese Academy of Sciences, Qingdao, 266071, China, Laboratory for Marine Geology, Qingdao National Laboratory for Marine Science and Technology, Qingdao, 266000, China, Center for Ocean Mega-Science, Chinese Academy of Sciences, Qingdao, 266071, China; Keshav, S., Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Li, Y., State Key Laboratory of Isotope Geochemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, 510640, China	Communications Earth and Environment	2023	26624435
6365	Information set supported deep learning architectures for improving noisy image classification	Bhardwaj S., Wang Y., Yu G., Wang Y.	Bhardwaj, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Wang, Y., Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University, Arlington, VA 22203, United States; Yu, G., Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University, Arlington, VA 22203, United States; Wang, Y., Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University, Arlington, VA 22203, United States	Scientific Reports	2023	20452322
6366	DRLBTS: deep reinforcement learning-aware blockchain-based healthcare system	Lakhan A., Mohammed M.A., Nedoma J., Martinek R., Tiwari P., Kumar N.	Lakhan, A., Department of Computer Science, Dawood University of Engineering and Technology, Sindh, Karachi, 74800, Pakistan, Department of Telecommunications, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic, Department of Cybernetics and Biomedical Engineering, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic; Mohammed, M.A., College of Computer Science and Information Technology, University of Anbar, Anbar, 31001, Iraq, Department of Telecommunications, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic, Department of Cybernetics and Biomedical Engineering, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic; Nedoma, J., Department of Telecommunications, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic; Martinek, R., Department of Cybernetics and Biomedical Engineering, VSB-Technical University of Ostrava, Ostrava, 70800, Czech Republic; Tiwari, P., School of Information Technology, Halmstad University, Halmstad, Sweden; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhnad, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Taichung, Taiwan	Scientific Reports	2023	20452322
6367	A coupled finite-volume immersed boundary method for the simulation of bioheat transfer in 3D complex tumor	Singh A., Kumar N.	Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Virginia Tech-TIET Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Engineering with Computers	2023	1770667

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6368	Non-invasive estimation of hemoglobin, bilirubin and oxygen saturation of neonates simultaneously using whole optical spectrum analysis at point of care	Banerjee A., Bhattacharyya N., Ghosh R., Singh S., Adhikari A., Mondal S., Roy L., Bajaj A., Ghosh N., Bhushan A., Goswami M., Ahmed A.S.A., Moussa Z., Mondal P., Mukhopadhyay S., Bhattacharyya D., Chattopadhyay A., Ahmed S.A., Mallick A.K., Pal S.K.	Banerjee, A., Department of Physics, Jadavpur University, 188, Raja S.C. Mallick Rd, Kolkata, 700032, India, Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, West Bengal, Kolkata, 700106, India, Department of Paediatric Medicine, Nil RatanSircar Medical College & Hospital, 138, AJC Bose Road, Sealdah, Raja Bazar, Kolkata, 700014, India; Bhattacharyya, N., Department of Radio Physics and Electronics, University of Calcutta, 92, Acharya Prafulla Chandra Rd, Machuabazar, Kolkata, 700009, India, Department of Chemical and Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Ghosh, R., Department of Chemical and Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Singh, S., Department of Chemical and Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India, Neo Care Inc, 27, Parker St, Dartmouth, NS B2Y 2W1, Canada, Electrical and Computer Engineering Department, Dalhousie University, 6299 South St, Halifax, NS B3H 4R2, Halifax, Canada; Adhikari, A., Department of Chemical and Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India, Chemical and Biomolecular Engineering, University of California, Los Angeles, CA 90095, United States; Mondal, S., Department of Chemical and Biological Sciences, S. N. Bose National Centre for Basic Sciences, Block JD, Sector 3, Salt Lake, Kolkata, 700106, India; Roy, L., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, West Bengal, Kolkata, 700106, India, Department of Applied Optics and Photonics, JD-2, Sector-III, Salt Lake, West Bengal, Kolkata, 700 106, India; Bajaj, A., Department of Paediatric Medicine, Nil RatanSircar Medical College & Hospital, 138, AJC Bose Road, Sealdah, Raja Bazar, Kolkata, 700014, India; Ghosh, N., Department of Paediatric Medicine, Nil RatanSircar Medical College & Hospital, 138, AJC Bose Road, Sealdah, Raja Bazar, Kolkata, 700014, India; Bhushan, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Goswami, M., Technical Research Centre, S. N. Bose National Centre for Basic Sciences, Block JD, Sector III, Salt Lake, West Bengal, Kolkata, 700106, India; Ahmed, A.S.A., Faculty of Medicine, Assiut University, Assiut, 71516, Egypt; Moussa, Z., Department of Chemistry, College of Science, United Arab Emirates University, Al Ain, P.O. Box 15551, Abu Dhabi, United Arab Emirates; Mondal, P., Department of Radio Physics and Electronics, University of Calcutta, 92, Acharya Prafulla Chandra Rd, Machuabazar, Kolkata, 700009, India; Mukhopadhyay, S., Department of Physics, Jadavpur University, 188, Raja S.C. Mallick Rd, Kolkata, 700032, India; Bhattacharyya, D., Department of Gynecology & Obstetrics, Nil Ratan Sircar Medical College & Hospital, 138, AJC Bose Road, Sealdah, Raja Bazar, Kolkata, 700014, India; Chattopadhyay, A., Department of Basic Science and Humanities, Techno International, Kolkata, 700156, India, Department of Physics, Sister	Scientific Reports	2023	20452322
6369	Aluminum foam development by filling architecture techniques and process optimization	Kumar M., Singh R.K.R., Jain V.	Kumar, M., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, R.K.R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2023	9544054
6370	Examining the intricacies of organizational and attitudinal factors with leadership style and performance measures: a family business perspective	Goyal L., Kiran R., Bose S.C.	Goyal, L., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bose, S.C., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Current Psychology	2023	10461310
6371	Modeling Bitcoin Prices using Signal Processing Methods, Bayesian Optimization, and Deep Neural Networks	Tripathi B., Sharma R.K.	Tripathi, B., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Computational Economics	2023	9277099
6372	Estimation for Kies distribution with generalized progressive hybrid censoring under partially observed competing risks model	Chandra P., Tripathi Y.M., Wang L., Lodhi C.	Chandra, P., Department of Mathematics, Indian Institute of Technology Patna, Bihar, Patna, India; Tripathi, Y.M., Department of Mathematics, Indian Institute of Technology Patna, Bihar, Patna, India; Wang, L., School of Mathematics, Yunnan Normal University, Kunming, China; Lodhi, C., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability	2023	1748006X
6373	GMM-LSTM: a component driven resource utilization prediction model leveraging LSTM and gaussian mixture model	Garg S., Ahuja R., Singh R., Perl I.	Garg, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ahuja, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, R., School of Computing, Engineering and Physical Sciences, University of the West of Scotland, United Kingdom, Scotland, Hamilton, G72 0LH, United Kingdom; Perl, I., Faculty of Software Engineering and Computer Systems, ITMO University, Saint Petersburg, 197101, Russian Federation	Cluster Computing	2023	13867857
6374	An Efficient Vehicle-Assisted Aggregate Authentication Scheme for Infrastructure-Less Vehicular Networks	Tan H., Zheng W., Vijayakumar P., Sakurai K., Kumar N.	Tan, H., Kyushu University, Cyber Security Center, Fukuoka, 8190395, Japan; Zheng, W., Nanjing University of Aeronautics and Astronautics, College of Computer Science and Technology, Nanjing, 210016, China; Vijayakumar, P., University College of Engineering Tindivanam, Department of Computer Science and Engineering, Tindivanam, 604001, India; Sakurai, K., Kyushu University, Faculty of Information Science and Electrical Engineering, Fukuoka, 8190395, Japan; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Computer Science and Information Engineering, Asia University, Taichung, 40704, Taiwan, Department of Computing and Informatics, King Abdulaziz University, Jeddah, 22254, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India	IEEE Transactions on Intelligent Transportation Systems	2023	15249050

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6375	Insight into biosorptive uptake of fluoride by chemically activated biochar: experimental modeling and parametric optimization	Mukherjee S., Kamila B., Paul S., Hazra B., Chowdhury S., Arya R.K., Barman S., Halder G.	Mukherjee, S., Department of Chemical Engineering, National Institute of Technology Durgapur, West Bengal, Durgapur, 713209, India; Kamila, B., Department of Chemical Engineering, University of Calcutta, Kolkata, India; Paul, S., Department of Chemical Engineering, University of Calcutta, Kolkata, India; Hazra, B., Department of Chemical Engineering, University of Calcutta, Kolkata, India; Chowdhury, S., Department of Chemical Engineering, National Institute of Technology Durgapur, West Bengal, Durgapur, 713209, India; Arya, R.K., Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, Jalandhar, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Halder, G., Department of Chemical Engineering, National Institute of Technology Durgapur, West Bengal, Durgapur, 713209, India	Biomass Conversion and Biorefinery	2023	21906815
6376	NBIoT: Transitioning from IoT to an eco-friendly IoT approach	Ansar S.A., Jaiswal K., Aggarwal S., Srivastava A., Singh V.	Ansar, S.A., Department of Computer Application, Babu Banarasi das University, Lucknow, 226028, India; Jaiswal, K., Department of Computer Science, University of Lucknow, Lucknow, 226007, India; Aggarwal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147005, India; Srivastava, A., Department of Computer Application, Babu Banarasi das University, Lucknow, 226028, India; Singh, V., Department of Computer Application, Babu Banarasi das University, Lucknow, 226028, India	AIP Conference Proceedings	2023	0094243X
6377	Role of site–site interaction on the phase equilibria of multiple-site associating fluids in a functionalized slit pore	Mandal S.S., Singh S.K., Khan S.	Mandal, S.S., Department of Chemical & Biochemical Engineering, Indian Institute of Technology Patna, Patna, 801103, India; Singh, S.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khan, S., Department of Chemical & Biochemical Engineering, Indian Institute of Technology Patna, Patna, 801103, India	Journal of Physics Condensed Matter	2023	9538984
6378	Cloud Computing: Exploration of Security Issues with Alleviating Techniques	Jaiswal K., Ansar S.A., Aggarwal S., Dwivedi S.K., Pathak P.C.	Jaiswal, K., University of Lucknow, Lucknow, India; Ansar, S.A., Babu Banarasi Das University, Lucknow, India; Aggarwal, S., Thapar Institute of Engineering and Technology, Patiala, India; Dwivedi, S.K., Babasaheb Bhimrao Ambedkar University, Lucknow, India; Pathak, P.C., Babu Banarasi Das University, Lucknow, India	AIP Conference Proceedings	2023	0094243X
6379	Measuring the Moderation Effect of Age and Gender on User's Intentions Towards Cloud Computing in India	Trivedi T.M., Aggarwal S.	Trivedi, T.M., MBA Department, Som-Lalit Institute of Business Management, Gujarat Technological University, Ahmedabad, India; Aggarwal, S., Department of Computer science and Engineering, T.I.E.T, Punjab, Patiala, India	AIP Conference Proceedings	2023	0094243X
6380	Photophysical Study of Heteroatom-Doped Carbon Dots-MnO ₂ -Based Nanosensor: Selective Detection of Glutathione in the Nanomolar Level	Sohal N., Sharma S., Choudhury D., Basu S., Maity B.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Chemistry, Lovely Professional University, Phagwara, 144411, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Applied Bio Materials	2023	25766422
6381	A recent update on the environment friendly methodologies to synthesize bis(indolyl)methane and 3,3-di(3-indolyl)-2-indolone derivatives	Kamboj P., Tyagi V.	Kamboj, P., School of Chemistry and BiochemistryThapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Tyagi, V., School of Chemistry and BiochemistryThapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Tetrahedron	2023	404020
6382	Sense as you go: A context-aware adaptive sensing framework for on-road driver profiling	Mondal A., Kaushal M., Chakraborty S.	Mondal, A., Indian Institute of Technology, Jodhpur, India; Kaushal, M., Thapar Institute of Engineering and Technology, Patiala, India; Chakraborty, S., Indian Institute of Technology, Jodhpur, India	BuildSys 2023 - Proceedings of the10th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation	2023	
6383	Deciphering conformational changes in human serum albumin induced by bile salts using spectroscopic and molecular modeling approaches	Kaur M., Bhattacharya M., Maity B.	Kaur, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhattacharya, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Molecular Liquids	2023	1677322
6384	Electric field and temperature dependent ferroelectric behavior of Bi _{0.5} Na _{0.5} TiO ₃ –Bi _{0.5} K _{0.5} TiO ₃ –BiMg _{0.5} Ti _{0.5} O ₃ piezoceramics	Singh P., Laishram R., Kolte J., Sharma P.	Singh, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Laishram, R., Solid State Physics Laboratory, Lucknow Road, Timarpur, Delhi, 110054, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Science in Semiconductor Processing	2023	13698001
6385	Predicted performance bounds of thermochromism assisted photon transport for efficient solar thermal energy storage	Singh I., Khullar V.	Singh, I., Mechanical Engineering Department, Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	International Journal of Heat and Mass Transfer	2023	179310

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6386	Thermal performance of fouling-resistant polymer nanocomposite coatings in heat exchangers	Sharma N., Kumar R., Sharma B., Jain D., Batra R.C.	Sharma, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, B., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Batra, R.C., Department of Biomedical Engineering and Mechanics, M/C 0219, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States	International Journal of Heat and Mass Transfer	2023	179310
6387	Antecedents and consequences of consumers' attitudes toward product placements: evidence from India	Kaur R., Sharma R.K., Bakshi A.	Kaur, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Bakshi, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Emerging Markets	2023	17468809
6388	Sustainable utilization of industrial by-products spent foundry sand and cement kiln dust in controlled low strength materials (CLSM)	Aggarwal J., Goyal S., Kumar M.	Aggarwal, J., Research Scholar, Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Professor and Dean, School of Engineering & Technology, BML Munjal University, Haryana, Gurugram, India	Construction and Building Materials	2023	9500618
6389	Fuzzy-based techniques for clustering in wireless sensor networks (WSNs): Recent advances, challenges, and future directions	Verma S., Bhatia S., Zeadally S., Kaur S.	Verma, S., GS Sanyal School of Telecommunications, Indian Institute of Technology Kharagpur, Kharagpur, India; Bhatia, S., Department of Industrial and Production Engineering, Dr. BR Ambedkar National Institute of Technology, Jalandhar, Jalandhar, India; Zeadally, S., College of Communication and Information, University of Kentucky, Lexington, KY, United States; Kaur, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Communication Systems	2023	10745351
6390	Examining consumers' continuance and sharing intention toward food delivery apps	Goyal S., Chauhan S., Gajpal Y., Bhardwaj A.K.	Goyal, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India; Chauhan, S., Jindal Global Business School, Jindal Global University, OP, Sonipat, India; Gajpal, Y., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Enterprise Information Management	2023	17410398
6391	Substituted 2,5 thiophene dicarboxaldehyde bisthiosemicarbazones and their copper(II) complexes: Synthesis, structure elucidation, HSA binding, biological activities and docking studies	Ain Q.U., Singh I., Carmieli R., Savci A., Paul K., Sharma R.	Ain, Q.U., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Punjab, India; Singh, I., School of Pharmaceutical Science, Lovely Professional University, Punjab, India; Carmieli, R., Department of Chemical Research Support, Weizmann Institute of Science, Rehovot, 76100, Israel; Savci, A., Department of Molecular biology and Genetic, Muş Alparslan University, Turkey; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, R., School of Chemical Engineering and Physical Sciences, Lovely Professional University, Punjab, India	Journal of Molecular Structure	2023	222860
6392	Intramolecular dual hydrogen bonded fluorescent "turn-on" probe for Al ³⁺ and HSO ₄ ⁻ ions: Applications in real water samples and molecular keypad lock	Palta A., Kumar G., Luxami V.	Palta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, G., Department of Chemistry, M. M. Engineering College, Maharishi Markandeshwar (Deemed to be University), Mullana, 133207, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2023	13861425
6393	Mixed-Dimensional Engineering to Generate a Desirable 2D/3D Heterostructure Perovskite Layer to Record Stable and Efficient Carbon-Based Perovskite Solar Cells	Kumar A., Sayyed M.I., Idris A.M., Khandaker M.U., Singh P., Abbas H.A., Myaser Abd Alaziz K., Sharif H.	Kumar, A., Department of Electronics and Communication Engineering, GLA University, Mathura, 281406, India; Sayyed, M.I., Department of Physics, Faculty of Science, Isra University, Amman, 11622, Jordan, Department of Nuclear Medicine Research, Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman bin Faisal University (IAU), Dammam, 31441, Saudi Arabia; Idris, A.M., Department of Chemistry, College of Science, King Khalid University, Abha, 62529, Saudi Arabia, Research Center for Advanced Materials Science (RCAMS), King Khalid University, Abha, 62529, Saudi Arabia; Khandaker, M.U., Centre for Applied Physics and Radiation Technologies, School of Engineering and Technology, Sunway University, Selangor, Bandar Sunway, 47500, Malaysia, Faculty of Graduate Studies, Daffodil International University, Daffodil Smart City, Dhaka, Savar, 1216, Bangladesh; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Abbas, H.A., College of Nursing, National University of Science and Technology, Dhi Qar, 64001, Iraq; Myaser Abd Alaziz, K., Department of Pharmacy, Al-Noor University College, Nineveh, 41012, Iraq; Sharif, H., Medical Technical College, Al-Farahidi University, Baghdad, 10021, Iraq	Energy and Fuels	2023	8870624
6394	Discharge estimation in a compound channel with converging and diverging floodplains using ANN-PSO and MARS	Shekhar D., Das B.S., Devi K., Khuntia J.R., Karmaker T.	Shekhar, D., Department of Civil Engineering, National Institute of Technology, Patna, 800005, India; Das, B.S., Department of Civil Engineering, National Institute of Technology, Patna, 800005, India; Devi, K., Department of Civil Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, India; Khuntia, J.R., Department of Civil Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, India; Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Hydroinformatics	2023	14647141

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6395	Improved photocatalytic degradation of rhodamine B by g-C ₃ N ₄ loaded BiVO ₄ nanocomposites	Rohilla P., Pal B., Das R.K.	Rohilla, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, R.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Heliyon	2023	24058440
6396	Coupled reaction channel analysis of one- and two-nucleon transfer in ²⁸ Si+ ^{90,94} Zr	Kumar C., Gonika, Yashraj, Biswas R., Kalkal S., Nath S.	Kumar, C., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gonika, Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Yashraj, Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Biswas, R., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India, Life Science Division, Diamond Light Source Ltd., Diamond House, Harwell Science and Innovation Campus, Didcot, Oxfordshire, OX11 0DE, United Kingdom; Kalkal, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nath, S., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	European Physical Journal A	2023	14346001
6397	Impact of treatment chemicals on the morphology and molecular structure of microfibers and microplastic films in wastewater	Brar P.K., Dhir A., Örmeci B.	Brar, P.K., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India, Department of Civil and Environmental Engineering, Carleton University, Ottawa, ON K1S 5B6, Canada; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology Patiala, Patiala, 147004, India; Örmeci, B., Department of Civil and Environmental Engineering, Carleton University, Ottawa, ON K1S 5B6, Canada	Water Science and Technology	2023	2731223
6398	Influence of post heat treatment on metallurgical, mechanical, and corrosion analysis of wire arc additive manufactured inconel 625	Sharma H., Singla J., Singh V., Singh J., Kumar H., Bansal A., Singla A.K., Goyal D.K., Gupta M.K.	Sharma, H., Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, 148106, India; Singla, J., Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, 148106, India; Singh, V., Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, 148106, India; Singh, J., Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, 148106, India; Kumar, H., Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Bansal, A., Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, 148106, India; Singla, A.K., Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, Sangrur, 148106, India; Goyal, D.K., IK Gujral Punjab Technical University, Main Campus, Punjab, Kapurthala, 144601, India; Gupta, M.K., Faculty of Mechanical Engineering, Opole University of Technology, 76 Proszkowska St., Opole, 45-758, Poland, Department of Mechanical Engineering, Graphic Era (Deemed to Be University), Dehradun, India	Journal of Materials Research and Technology	2023	22387854
6399	Tumor size dependent MNP dose evaluation in realistic breast tumor models for effective magnetic hyperthermia	Nain S., Kumar N., Avti P.K.	Nain, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Avti, P.K., Department of Biophysics, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India	Medical Engineering and Physics	2023	13504533
6400	Estimating damping effects using a smartphone	Goyal G., Jain A., Singh D.K.	Goyal, G., Thapar Institute of Engineering and Technology, School of Physics and Material Science, Patiala, India; Jain, A., Thapar Institute of Engineering and Technology, School of Physics and Material Science, Patiala, India; Singh, D.K., Thapar Institute of Engineering and Technology, School of Physics and Material Science, Patiala, India	Physics Teacher	2023	0031921X
6401	Prioritized aggregation operators based on Schweizer-Sklar t-norm for linear Diophantine fuzzy sets and their application in green sustainable chain	Tehreem, Garg H., Liu X., Emam W.	Tehreem, Department of Mathematics, Faculty of Basic and Applied Sciences, Air University PAF Complex E-9, Islamabad, 44000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Liu, X., School of Microelectronics & Data Science, Anhui University of Technology, Ma'anshan, Anhui, 243002, China, Anhui Provincial Joint Key Laboratory of Disciplines for Industrial Big Data Analysis and Intelligent Decision, Ma'anshan, Anhui, 243002, China, Center for Global Health Research, Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences, Chennai, India; Emam, W., Department of Statistics and Operations Research, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia	Alexandria Engineering Journal	2023	11100168

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6402	Moth–Flame Optimization based ensemble classification for intrusion detection in intelligent transport system for smart cities	Gadekallu T.R., Kumar N., Baker T., Natarajan D., Boopathy P., Maddikunta P.K.R.	Gadekallu, T.R., School of Computer Science Engineering and Information Systems, Vellore Institute of Technology, Vellore, Tamil Nadu, India, Zhongda Group, Haiyan County, Jiaxing City, Zhejiang Province, China, Department of Electrical and Computer Engineering, Lebanese American University, Lebanon, College of Information Science and Engineering, Jiaying University, China, Division of Research and development, Lovely Professional University, Phagwara, India; Kumar, N., Thapar Institute of Engineering and Technology, India; Baker, T., Department of Computer Science, College of Computing and Informatics, University of Sharjah, United Arab Emirates; Natarajan, D., Department of Computer Science, Pondicherry University, Karaikal Campus, Karaikal, Puducherry UT, India; Boopathy, P., School of Computer Science Engineering and Information Systems, Vellore Institute of Technology, Vellore, Tamil Nadu, India; Maddikunta, P.K.R., School of Computer Science Engineering and Information Systems, Vellore Institute of Technology, Vellore, Tamil Nadu, India	Microprocessors and Microsystems	2023	1419331
6403	Improved antioxidant activities of spice require enrichment of distinct yet closely-related metabolic pathways	Gandhi S., Saha M.R., Dey P.	Gandhi, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saha, M.R., Department of Bio-sciences, Habibpur Teachers Training College, West Bengal, Malda, India; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Heliyon	2023	24058440
6404	N-semble-based method for identifying Parkinson's disease genes	Arora P., Mishra A., Malhi A.	Arora, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Malhi, A., Department of Computer Science, Aalto University, Espoo, Finland, Department of computing and Informatics, Bournemouth University, Poole, United Kingdom	Neural Computing and Applications	2023	9410643
6405	Parameter Identification of a Solid Oxide Fuel Cell Model under Different Temperature Conditions	Singh P., Sandhu A.	Singh, P., Thapar Institute of Engineering and Technology, Chemical Engineering Department, Patiala, India; Sandhu, A., Chitkara University, Chitkara University Institute of Engineering and Technology, Punjab, India	Chemical Engineering and Technology	2023	9307516
6406	Diversity of arbuscular mycorrhizal fungi in seleniferous soils and their role in plant growth promotion	Kaur T., Reddy M.S.	Kaur, T., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	3 Biotech	2023	2190572X
6407	Recent Advances in Lipase Catalyzed Multicomponent Reactions to Synthesize N-Heterocycles	Budhiraja M., Ali A., Tyagi V.	Budhiraja, M., School of chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Ali, A., School of chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Tyagi, V., School of chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Asian Journal of Organic Chemistry	2023	21935807
6408	Unleashing the power of solar light: WO3 nanorods decorated onto BiVO4 dendrites for tetracycline detoxification and water splitting	Singla S., Devi P., Basu S.	Singla, S., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, P., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Science and Pollution Research	2023	9441344
6409	Multi-attribute decision-making approach based on Aczel-Alsina power aggregation operators under bipolar fuzzy information & its application to quantum computing	Garg H., Mahmood T., ur Rehman U., Nguyen G.N.	Garg, H., School of Mathematics Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Institute of Research and Development, Duy Tan University, Da Nang, Viet Nam; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; ur Rehman, U., Center for Global Health Research, Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences, Chennai, India, Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; Nguyen, G.N., Institute of Research and Development, Duy Tan University, Da Nang, Viet Nam, School of Computer Science, Duy Tan University, Da Nang, Viet Nam	Alexandria Engineering Journal	2023	11100168
6410	Algorithms for decision-making process using complex Pythagorean fuzzy set and its application to hospital siting for COVID-19 patients	Rahman K., Garg H., Ali R., Alfalqi S.H., Lamoudan T.	Rahman, K., Department of Mathematics Shaheed Benazir Bhutto University Sheringal, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Ali, R., Department of Mathematics, College of Science and Arts, King Khalid University, Muhayil, Abha, 61413, Saudi Arabia; Alfalqi, S.H., Department of Mathematics, College of Science and Arts, King Khalid University, Muhayil, Abha, 61413, Saudi Arabia; Lamoudan, T., Department of Mathematics, College of Science and Arts, King Khalid University, Muhayil, Abha, 61413, Saudi Arabia	Engineering Applications of Artificial Intelligence	2023	9521976
6411	DL-AMPUT-EEG: Design and development of the low-cost prosthesis for rehabilitation of upper limb amputees using deep-learning-based techniques	Kansal S., Garg D., Upadhyay A., Mittal S., Talwar G.S.	Kansal, S., Computer Science Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Garg, D., Computer Science Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Upadhyay, A., Computer Science Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Mittal, S., Computer Science Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Talwar, G.S., Computer Science Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Engineering Applications of Artificial Intelligence	2023	9521976

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6412	Dual hesitant fuzzy Correlation coefficient-based decision-making algorithm and its applications to Engineering Cost Management problems	Garg H., Sun Y., Liu X.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India; Sun, Y., School of Microelectronics & Data Science, Anhui University of Technology, Anhui, Ma'anshan, 243002, China, Center for Global Health Research, Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences, Chennai, India; Liu, X., School of Microelectronics & Data Science, Anhui University of Technology, Anhui, Ma'anshan, 243002, China, Anhui Provincial Joint Key Laboratory of Disciplines for Industrial Big Data Analysis and Intelligent Decision, Anhui, Ma'anshan, 243002, China, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq	Engineering Applications of Artificial Intelligence	2023	9521976
6413	Clonal propagation and hardening of epiphytic orchids (<i>Aerides multiflora</i> and <i>Rhyncostylis retusa</i>) for sustainable conservation and utilization	Lal A., Pant M., Kumar A., Palni L.M.S., Singh A., Siddiqui M.R., Husen A.	Lal, A., Department of Biotechnology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Pant, M., Department of Biotechnology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Kumar, A., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India; Palni, L.M.S., Department of Biotechnology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Singh, A., School of Agriculture and Environment, Bentley Perth Campus, Curtin University, Australia; Siddiqui, M.R., Chemistry Department, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Husen, A., Wolaita Sodo University, Wolaita, PO Box 138, Ethiopia	South African Journal of Botany	2023	2546299
6414	Assessment of kinetic and statistical models for predicting breakthrough curves of bio-colloid transport through saturated porous media	Chalotra A., Babbar R., Ratha D., Baranwal M., Rout P.R.	Chalotra, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rout, P.R., Department of Biotechnology, National Institute of Technology Jalandhar, Punjab144027, India	Journal of Contaminant Hydrology	2023	1697722
6415	A novel algorithm to determine the input energy for soliton generation in a media with a patterned property	Sharma M., Kajala S.K., Mishra M., Singh B., Jana S.	Sharma, M., Department of Physics, Mody University of Science and Technology, Lakshmganarh, Rajasthan, Sikar, 332311, India; Kajala, S.K., Department of Physics, Mody University of Science and Technology, Lakshmganarh, Rajasthan, Sikar, 332311, India; Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmganarh, Rajasthan, Sikar, 332311, India; Singh, B., Department of Physics, Mody University of Science and Technology, Lakshmganarh, Rajasthan, Sikar, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Communications in Nonlinear Science and Numerical Simulation	2023	10075704
6416	A time-efficient and noise-resistant cryptosystem based on discrete wavelet transform and chaos theory: An application in image encryption	Mehmood A., Shafique A., Chaudhry S.A., Alawida M., Khan A.N., Kumar N.	Mehmood, A., Department of Computer Science and Information Technology, College of Engineering, Abu Dhabi University, Abu Dhabi, United Arab Emirates; Shafique, A., School of Science, Technology and Health, York St John University, York, United Kingdom; Chaudhry, S.A., Department of Computer Science and Information Technology, College of Engineering, Abu Dhabi University, Abu Dhabi, United Arab Emirates, Department of Software Engineering, Faculty of Engineering and Architecture, Nisantasi University, Istanbul, 34398, Turkey; Alawida, M., Department of Computer Science and Information Technology, College of Engineering, Abu Dhabi University, Abu Dhabi, United Arab Emirates; Khan, A.N., COMSATS University Islamabad, Abbottabad Campus, Abbottabad, Pakistan; Kumar, N., Department of CSE, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of CSED, Graphic Era University, Uttarakhand, Dehradun, India, King Abdul Aziz University, Jeddah, Saudi Arabia, Faculty of Computing and IT, Department of Electrical and Computer Engineering, Lebanese American University, Lebanon	Journal of Information Security and Applications	2023	22142134
6417	2D g-C3N4 nanosheets functionalized with nickel-doped ZrO2 nanoparticles for synergistic photodegradation of toxic chemical pollutants	Wang R., Reddy C.V., Nagar A., Basu S., Shetti N.P., Cheolho B., Shim J., Kakarla R.R.	Wang, R., School of Mechanical Engineering, Yeungnam University, Gyeongsan buk-do38541, South Korea; Reddy, C.V., School of Mechanical Engineering, Yeungnam University, Gyeongsan buk-do38541, South Korea; Nagar, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Affiliate Faculty—Tiet-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Vidyannagar, Karnataka, Hubballi, 580 031, India; Cheolho, B., School of Mechanical Engineering, Yeungnam University, Gyeongsan buk-do38541, South Korea; Shim, J., School of Mechanical Engineering, Yeungnam University, Gyeongsan buk-do38541, South Korea; Kakarla, R.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Chemosphere	2023	456535
6418	A novel exponential-logarithm-q-rung orthopair fuzzy set and their applications to multiple attribute group decision-making process	Garg H.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan	Granular Computing	2023	23644966

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6419	Reusing waste plastic bottle to reduce MoO ₃ into carbon-supported MoO ₂ nanoparticles for efficient water electrolysis	Upadhyay S., Mir R.A., Kumar N., Pandey O.P., Sen A.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mir, R.A., University of British Columbia, Canada; Kumar, N., Department of Electronics & Communication Engineering, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, 248002, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sen, A., Department of Physics & Nanotechnology, SRM Institute of Science & Technology, Kattankulathur, 603203, India	Surfaces and Interfaces	2023	24682030
6420	iMVAN: integrative multimodal variational autoencoder and network fusion for biomarker identification and cancer subtype classification	Dhillon A., Singh A., Bhalla V.K.	Dhillon, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhalla, V.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Applied Intelligence	2023	0924669X
6421	Biochar production and its environmental applications: Recent developments and machine learning insights	Supraja K.V., Kachroo H., Viswanathan G., Verma V.K., Behera B., Doddapaneni T.R.K.C., Kaushal P., Ahammad S.Z., Singh V., Awasthi M.K., Jain R.	Supraja, K.V., Waste Treatment Laboratory, Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, New Delhi, Hauz Khas, 110016, India; Kachroo, H., School of Interdisciplinary Research, Indian Institute of Technology Delhi, New Delhi, Hauz Khas, 110016, India; Viswanathan, G., School of Interdisciplinary Research, Indian Institute of Technology Delhi, New Delhi, Hauz Khas, 110016, India; Verma, V.K., Waste Treatment Laboratory, Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, New Delhi, Hauz Khas, 110016, India; Behera, B., Bioprocess Laboratory, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Doddapaneni, T.R.K.C., Chair of Biosystems Engineering, Institute of Forestry and Engineering, Estonian University of Life Sciences, Kreutzwaldi 56, Tartu, 51014, Estonia; Kaushal, P., Centre for Rural Development and Technology, Indian Institute of Technology Delhi, New Delhi, Hauz Khas, 110016, India; Ahammad, S.Z., Waste Treatment Laboratory, Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, New Delhi, Hauz Khas, 110016, India; Singh, V., Department of Biosciences, School of Science, Indrashil University, Mehsana, Rajpur, 382715, India; Awasthi, M.K., College of Natural Resources and Environment, Northwest A&F University, Yangling, 712100, China; Jain, R., Helmholtz-Zentrum Dresden-Rossendorf, Helmholtz Institute Freiberg for Resource Technology, Bautzner landstrasse 400, Dresden, 01328, Germany	Bioresource Technology	2023	9608524
6422	Non-destructive evaluation and corrosion study of magnetic pulse welded Al and low C steel joints	Patra S., Singh G., Mandal M., Chakraborty R., Arora K.S.	Patra, S., Research & Development, Tata Steel, Jharkhand, Jamshedpur, 831007, India; Singh, G., Mechanical Engineering Department, Thapar University, Thapar147004, India; Mandal, M., Metallurgical and Materials Engineering Department, National Institute of Technology Jamshedpur, Jharkhand831014, India; Chakraborty, R., Mechanical Engineering Department, Indian Institute of Technology Kharagpur, West Bengal, Kharagpur, 721302, India; Arora, K.S., Research & Development, Tata Steel, Jharkhand, Jamshedpur, 831007, India	Materials Chemistry and Physics	2023	2540584
6423	Selection of Unmanned Aerial Vehicles for Precision Agriculture Using Interval-Valued q-Rung Orthopair Fuzzy Information based TOPSIS Method	Gurmani S.H., Garg H., Zulqarnain R.M., Siddique I.	Gurmani, S.H., School of Mathematical Sciences, Zhejiang Normal University, Zhejiang, Jinhua, 321004, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab147004, India, Department of Mathematics, Graphics Era to Be University, Uttarakhand, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq; Zulqarnain, R.M., Department of Mathematics, University of Management and Technology, Sialkot Campus, Pakistan; Siddique, I., Department of Mathematics, University of Management and Technology, Lahore, 54770, Pakistan	International Journal of Fuzzy Systems	2023	15622479
6424	Consumers profiling based federated learning approach for energy load forecasting	Dogra A., Anand A., Bedi J.	Dogra, A., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Anand, A., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bedi, J., Department of Computer Science and Engineering Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Sustainable Cities and Society	2023	22106707
6425	DWT-CompCNN: deep image classification network for high throughput JPEG 2000 compressed documents	Bisen T., Javed M., Kirtania S., Nagabhushan P.	Bisen, T., Computer Vision & Biometrics Lab, Department of Information Technology, IIIT Allahabad, U.P., Prayagraj, India; Javed, M., Computer Vision & Biometrics Lab, Department of Information Technology, IIIT Allahabad, U.P., Prayagraj, India; Kirtania, S., Department of Computer Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Nagabhushan, P., Computer Vision & Biometrics Lab, Department of Information Technology, IIIT Allahabad, U.P., Prayagraj, India	Pattern Analysis and Applications	2023	14337541
6426	Implementation of DC net metering scheme in off-board EV charging systems with a time of usage capability	Yadav K., Singh M.	Yadav, K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electric Power Systems Research	2023	3787796

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6427	A prospect theory-based MABAC algorithm with novel similarity measures and interactional operations for picture fuzzy sets and its applications	Wang T., Wu X., Garg H., Liu Q., Chen G.	Wang, T., School of Sciences, Southwest Petroleum University, Sichuan, Chengdu, 610500, China; Wu, X., School of Sciences, Southwest Petroleum University, Sichuan, Chengdu, 610500, China, School of Mathematics and Statistics, Guizhou University of Finance and Economics, Guizhou, Guiyang, 550025, China, Zhuhai College of Jilin University, Guangdong, Zhuhai, 519041, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq, College of Technical Engineering, The Islamic University, Najaf, Iraq; Liu, Q., School of Sciences, Southwest Petroleum University, Sichuan, Chengdu, 610500, China; Chen, G., Department of Electrical Engineering, City University of Hong Kong, Hong Kong	Engineering Applications of Artificial Intelligence	2023	9521976
6428	Naphthalimide-benzimidazole conjugate towards "Turn-on" recognition of Hg ²⁺ in pure aqueous medium	Singh I., Kumar G., Palta A., luxami V., Paul K.	Singh, I., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Pharmaceutical Sciences, Lovely Professional University, Jalandhar-Delhi GT Road, Punjab, Phagwara, 144411, India; Kumar, G., Department of Chemistry, M. M. Engineering College, Maharishi Markandeshwar University, Mullana-133207, Ambala, India; Palta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Inorganica Chimica Acta	2023	201693
6429	DIBS: distance- and intensity-based separation filter for high-density impulse noise removal	Satti P., Shrotriya V., Garg B., Surya Prasath V.B.	Satti, P., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, 147001, India; Shrotriya, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, 147001, India; Garg, B., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, 147001, India; Surya Prasath, V.B., Department of Pediatrics, University of Cincinnati OH, United States	Signal, Image and Video Processing	2023	18631703
6430	3D printing for spine pathologies: a state-of-the-art review	Sharma S., Pahuja S., Gupta V., Singh G., Singh J.	Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pahuja, S., Biomedical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, G., Physical Sciences, Inter University Centre for Teacher Education, Varanasi, 221005, India; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Biomedical Engineering Letters	2023	20939868
6431	QRFOOD: Quaternion Riesz fractional order directional derivative for color image edge detection	Kaur K., Jindal N., Singh K.	Kaur, K., Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Jindal, N., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Singh, K., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India	Signal Processing	2023	1651684
6432	Identification of new pentapeptides as potential inhibitors of amyloid-β42 aggregation using virtual screening and molecular dynamics simulations	Kaur A., Goyal B.	Kaur, A., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Molecular Graphics and Modelling	2023	10933263
6433	Parameter Estimation in a System of Integro-Differential Equations With Time-Delay	Kumar A., Saxena S.	Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Electrical Engineering, California Institute of Technology, Pasadena, CA 91125, United States; Saxena, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	IEEE Transactions on Circuits and Systems II: Express Briefs	2023	15497747
6434	Design and analysis of a super compact UWB antenna for accurate detection of breast tumors using monostatic radar-based microwave imaging technique	Grover P., Singh H.S., Sahu S.K.	Grover, P., School of Electronics and Electrical Engineering (SEEE), Lovely Professional University, Jalandhar, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, TIET-VT Center of Excellence in Emerging Materials, TIET, Patiala, India; Sahu, S.K., School of Electronics and Electrical Engineering (SEEE), Lovely Professional University, Jalandhar, India	International Journal of Imaging Systems and Technology	2023	8999457
6435	An extension of CODAS method for multi-criteria group decision making with complex intuitionistic fuzzy information via Dombi sine weighted arithmetic aggregation operators	Garg H., Olgun M., Ünver M., Türkarşlan E.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Olgun, M., Department of Mathematics, Faculty of Science, Ankara University, Ankara, 06100, Turkey; Ünver, M., Department of Mathematics, Faculty of Science, Ankara University, Ankara, 06100, Turkey; Türkarşlan, E., Department of Mathematics, Faculty of Science, Ankara University, Ankara, 06100, Turkey, Department of Mathematics, Faculty of Arts And Science, TED University, Ankara, 06420, Turkey	Granular Computing	2023	23644966

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6436	An efficient spherical fuzzy MEREC–CoCoSo approach based on novel score function and aggregation operators for group decision making	Wan G., Rong Y., Garg H.	Wan, G., Department of Basic Education, Sichuan College of Architectural Technology, Deyang, 618000, China; Rong, Y., School of Management, Shanghai University, Shanghai, 200444, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphics Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq	Granular Computing	2023	23644966
6437	A Systematic survey on automated text generation tools and techniques: application, evaluation, and challenges	Goyal R., Kumar P., Singh V.P.	Goyal, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, V.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6438	Multi-sensor based object tracking using enhanced particle swarm optimized multi-cue granular fusion	Kapoor R., Singh N., Kapoor A.	Kapoor, R., Department of ECE, DTU, New Delhi, India; Singh, N., Department of ECE, DTU, New Delhi, India, Department of CSE, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kapoor, A., Department of CSE, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6439	Effect of variation of WC reinforcement on metallurgical and cavitation erosion behavior of microwave processed NiCrSiC-WC composites clads	Bansal S., Kaushal S., Mago J., Gupta D., Jain V., Babbar A., Sharma D.	Bansal, S., Department of Mechanical Engineering, SGT University, Haryana, Gurugram, India; Kaushal, S., Department of Mechanical Engineering, Gulzar Group of Institutions, Punjab, Khanna, India; Mago, J., Center for Automotive Research and Tribology, Indian Institute of Technology, Delhi, India; Gupta, D., Surface Engineering and Tribology Research Lab, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, V., Surface Engineering and Tribology Research Lab, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Babbar, A., Department of Mechanical Engineering, SGT University, Haryana, Gurugram, India; Sharma, D., Department of Applied Sciences, Gulzar Group of Institutions, Punjab, Khanna, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
6440	Evolutionary based drug synergy prediction using adaptive Lévy based neural network structure	Singh H., Rana P.S., Singh U.	Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, U., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
6441	A systematic review on fruit fly optimization algorithm and its applications	Ranjan R.K., Kumar V.	Ranjan, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, V., Information Technology Department, Dr B R Ambedkar National Institute of Technology, Punjab, Jalandhar, 144027, India	Artificial Intelligence Review	2023	2692821
6442	Segmentation-free composite character recognition (CR) in bilingual handwritten text for Gurumukhi–English scripts	Kaur S., Bawa S., Kumar R.	Kaur, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bawa, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kumar, R., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Soft Computing	2023	14327643
6443	Multilayer extreme learning machine: a systematic review	Kaur R., Roul R.K., Batra S.	Kaur, R., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
6444	Triple Band-Reject Functionality from a Four-Element, Offset-Fed Fractal UWB-MIMO Antenna Incorporated with Split-Ring Resonators and U-shaped Slot	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Arabian Journal for Science and Engineering	2023	2193567X
6445	An interactive web-based tool for predicting and exploring brain cancer survivability	Nath G., Coursey A., Li Y., Prabhu S., Garg H., Halder S.C., Sengupta S.	Nath, G., Murray State University, Department of Mathematics & Statistics, Murray, KY 42071, United States; Coursey, A., Vanderbilt University, Department of Computer Science, Nashville, TN 37235, United States; Li, Y., Montclair State University, Feliciano School of Business, Montclair, NJ 07043, United States; Prabhu, S., Manipal Institute of Technology, Department of Computer Science and Engineering, Manipal, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Halder, S.C., Grand Valley State University, The Department of Statistics, Allendale, MI 49401, United States; Sengupta, S., San Jose State University, Department of Computer Science, San Jose, CA 95192, United States	Healthcare Analytics	2023	27724425
6446	Identifying bot infection using neural networks on DNS traffic	Singh M., Singh M., Kaur S.	Singh, M., Department of Information Technology and Engineering, Baba Ghulam Shah Badshah University, Rajouri, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, S., Computer Science, Eastern Washington University, Washington, United States	Journal of Computer Virology and Hacking Techniques	2023	22638733

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6447	Three point bending and tensile properties of bio-additive polydopamine-coated 3D printing-based distal ulna small locking bone plates: Future need of orthopedic implants	Sharma S., Mudgal D., Gupta V.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Vinyl and Additive Technology	2023	10835601
6448	Latency-Energy Tradeoff in Connected Autonomous Vehicles: A Deep Reinforcement Learning Scheme	Budhiraja I., Kumar N., Sharma H., Elhoseny M., Lakys Y., Rodrigues J.J.P.C.	Budhiraja, I., Bennett University, School of Computer Science Engineering and Technology, Uttar Pradesh, Greater Noida, 201310, India; Kumar, N., Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon, King Abdulaziz University, Department of Computer Science and Information Engineering, Jeddah, 22254, Saudi Arabia, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, 248007, India; Sharma, H., Thapar Institute of Engineering and Technology, Deemed to Be University, Computer Science and Engineering Department, Punjab, Patiala, 147004, India; Elhoseny, M., University of Sharjah, College of Computing and Informatics, Sharjah, United Arab Emirates, Mansoura University, Faculty of Computers and Information, Mansoura, 35516, Egypt; Lakys, Y., American University of the Middle East, College of Engineering and Technology, Egaila, 15453, Kuwait; Rodrigues, J.J.P.C., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266555, China, Instituto de Telecomunicações, Covilhã, 6201-001, Portugal	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
6449	Metagenomic analysis of heavy metal-contaminated soils reveals distinct clades with adaptive features	Thakur B., Yadav R.K., Marmesse R., Prashanth S., Krishnamohan M., Tachet L.F., Reddy M.S.	Thakur, B., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Yadav, R.K., Department of Botany, University of Allahabad, Uttar Pradesh, Prayagraj, 211002, India; Marmesse, R., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon1, Université de Lyon, Villeurbanne, 69622, France; Prashanth, S., Amrita School of Biotechnology, Amrita Vishwavidyapeetham, Kerala, Clappana, 690525, India; Krishnamohan, M., Department of Biotechnology and Bioinformatics, Birla Institute of Scientific Research, Rajasthan, Jaipur, 302001, India; Tachet, L.F., Ecologie Microbienne, UMR CNRS, UMR INRA, Université Claude Bernard Lyon1, Université de Lyon, Villeurbanne, 69622, France; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Environmental Science and Technology	2023	17351472
6450	Multiclass CNN-based adaptive optimized filter for removal of impulse noise from digital images	Roy A., Sharma L.D., Shukla A.K.	Roy, A., Department of Electrical Engineering, Ghani Khan Institute of Engineering and Technology, Malda, India; Sharma, L.D., School of Electronics, VIT-AP University, Vijayawada, India; Shukla, A.K., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab, India	Visual Computer	2023	1782789
6451	Approximation properties of Durrmeyer-variant of Lupaş type operators	Kaur J., Goyal M.	Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Patiala, 147004, India; Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Patiala, 147004, India	Annali dell'Universita di Ferrara	2023	4303202
6452	VIKOR approach for bi-level multi-criteria nonlinear fractional programming problems: new insights	Garg H., Thanh D.N.H., Rizk-Allah R.M.	Garg, H., Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Thanh, D.N.H., Department of Information Technology, College of Technology and Design, University of Economics Ho Chi Minh City (UEH), Ho Chi Minh City, Viet Nam; Rizk-Allah, R.M., Department of Basic Engineering Science, Menoufia University, Shebin El-Kom, Egypt	Kybernetes	2023	0368492X
6453	A hybrid weighted fuzzy approach for brain tumor segmentation using MR images	Chahal P.K., Pandey S.	Chahal, P.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Neural Computing and Applications	2023	9410643
6454	Spin-orbit coupling and magnetism in Sr2 CrO4	Mohapatra S., Kumar Singh D., Singh A.	Mohapatra, S., Saha Institute of Nuclear Physics, Theory Division, Kolkata, 700064, India; Kumar Singh, D., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A., Department of Physics, Indian Institute of Technology, Kanpur, 208016, India	Journal of Physics Condensed Matter	2023	9538984
6455	Experimental analysis of stability, thermal conductivity and photothermal behaviour of amine functionalised graphene oxide nanofluid	Sharma G., Khullar V., Soni S.	Sharma, G., CSIR-Central Scientific Instruments Organisation, Chandigarh, 160030, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Khullar, V., Thapar Institute of Engineering & Technology, Patiala, India; Soni, S., CSIR-Central Scientific Instruments Organisation, Chandigarh, 160030, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	Journal of Materials Research	2023	8842914
6456	BEAMER: Behavioral Encoder to Generate Multiple Appropriate Facial Reactions	Hoque X., Mann A., Sharma G., Dhall A.	Hoque, X., Indian Institute of Technology Ropar, Ropar, India; Mann, A., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, G., Indian Institute of Technology Ropar, Ropar, India; Dhall, A., Indian Institute of Technology Ropar, Ropar, India, Monash University, Australia	MM 2023 - Proceedings of the 31st ACM International Conference on Multimedia	2023	
6457	Experimental study on waste foundry sand as partial replacement of retaining wall backfill	Kumar A., Parihar A.	Kumar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Parihar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Construction and Building Materials	2023	9500618

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6458	A novel self-adaptive hybrid slime mould naked mole-rat algorithm for numerical optimization and energy-efficient wireless sensor network	Singh S., Singh U.	Singh, S., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India; Singh, U., Department of ECE, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2023	15320626
6459	An Improved Naked-mole Rat Algorithm for Numerical Optimization	Singh S., Singh U., Salgotra R., Mittal N.	Singh, S., Department of ECE, Thapar Institute of Engg. and Technology, Patiala, India, Department of ECE, Chandigarh University, Mohali, India; Singh, U., Department of ECE, Thapar Institute of Engg. and Technology, Patiala, India; Salgotra, R., School of Mechanical Engineering, Iby and Aladar Fleishman Faculty of Engineering, Tel-Aviv University, Israel; Mittal, N., Department of ECE, Chandigarh University, Mohali, India	AIP Conference Proceedings	2023	0094243X
6460	Multipolygon Shaped Thin Metamaterial Structure for Radar Cross Section Reduction and Gain Enhancement of Compact Circular Patch Antenna	Sharma A., Khanna R., Mohindru P.	Sharma, A., Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mohindru, P., Discipline of Electronics and Communication Engineering, Punjabi University, Punjab, Patiala, India	AIP Conference Proceedings	2023	0094243X
6461	Advancing sustainable solutions: Harnessing polyaniline/BiOCl/GO ternary nanocomposites for solar-powered degradation of organic pollutant and photocatalytic hydrogen generation	Hait P., Mehta R., Basu S.	Hait, P., School of Chemistry and Biochemistry, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mehta, R., Chemical Engineering Department, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Cleaner Production	2023	9596526
6462	Large exchange bias effect and complex magnetism in a tetragonal high entropy spinel oxide	Sharma N., Jangid S., Choudhury S., Mahatha S.K., Singh R.P., Marik S.	Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jangid, S., Indian Institute of Science Education and Research, Bhopal, Bhopal, 462066, India; Choudhury, S., UGC-DAE Consortium for Scientific Research, Khandwa Road Madhya Pradesh, Indore, 452001, India; Mahatha, S.K., UGC-DAE Consortium for Scientific Research, Khandwa Road Madhya Pradesh, Indore, 452001, India; Singh, R.P., Indian Institute of Science Education and Research, Bhopal, Bhopal, 462066, India; Marik, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Physics Letters	2023	36951
6463	Influence of dark matter on magnetized neutron stars	Parmar V., Das H.C., Sharma M.K., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, H.C., INFN, Sezione di Catania, Dipartimento di Fisica, Via S. Sofia 64, Catania, 95123, Italy; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	Physical Review D	2023	24700010
6464	SiO ₂ /B ₂ O ₃ glass formers effect on transparency and mechanical properties of soda-lime borosilicate glasses for automobile applications	Kumar S., Singh K., Kumar D.	Kumar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Non-Crystalline Solids	2023	223093
6465	Long term durability assessment of self-compacting concrete made with crushed recycled glass and metakaolin	Singh H., Siddique R.	Singh, H., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Construction and Building Materials	2023	9500618
6466	Investigating non-isothermal oxidation kinetics of a non-stoichiometrically synthesized Ti ₃ AlC ₂ MAX phase	Sharma P., Kainth S., Singh K., Mahajan R.L., Pandey O.P.	Sharma, P., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India, School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kainth, S., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mahajan, R.L., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Department of Mechanical Engineering and Institute for Critical Technology and Applied Science, Virginia Tech, Blacksburg, VA 24061, United States; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Journal of Alloys and Compounds	2023	9258388

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6467	Enhanced X-band absorption and shielding performance of Gd-substituted barium hexaferrite	Mahadevan S., Sankar A.R., Singh S., Sharma P.	Mahadevan, S., Center for Innovation and Product Development (CIPD), Vellore Institute of Technology, Chennai Campus, Tamil Nadu, Chennai, 600127, India; School of Mechanical Engineering, Vellore Institute of Technology, Chennai Campus, Tamil Nadu, Chennai, 600127, India; Sankar, A.R., Center for Innovation and Product Development (CIPD), Vellore Institute of Technology, Chennai Campus, Tamil Nadu, Chennai, 600127, India; School of Electronics Engineering, Vellore Institute of Technology, Chennai Campus, Tamil Nadu, Chennai, 600127, India; Singh, S., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Alloys and Compounds	2023	9258388
6468	Reducing unnecessary handovers and improving ranking abnormality based on multi-attribute decision making graph theory and matrix approach with Euclidean distance in heterogeneous wireless networks	Kaur G., Goyal R.K., Mehta R.	Kaur, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Concurrency and Computation: Practice and Experience	2023	15320626
6469	Membrane-active substituted triazines as antibacterial agents against Staphylococcus aureus with potential for low drug resistance and broad activity	Gupta S., Paul K.	Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	European Journal of Medicinal Chemistry	2023	2235234
6470	Upcycling Waste: Citrus limon Peel-Derived Carbon Quantum Dots for Sensitive Detection of Tetracycline in the Nanomolar Range	Kundu A., Basu S., Maity B.	Kundu, A., School of Chemistry and Biochemistry, Senior Research Fellow–Tiet-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty–Tiet-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty–Tiet-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Omega	2023	24701343
6471	Investigating dark matter-admixed neutron stars with NITR equation of state in light of PSR J0952-0607	Routaray P., Mohanty S.R., Das H., Ghosh S., Kalita P., Parmar V., Kumar B.	Routaray, P., Department of Physics & Astronomy, National Institute of Technology, Rourkela, 769008, India; Mohanty, S.R., Department of Physics & Astronomy, National Institute of Technology, Rourkela, 769008, India; Das, H., Dipartimento di Fisica, INFN Sezione di Catania, Via S. Sofia 64, Catania, 95123, Italy; Ghosh, S., Department of Physics & Astronomy, National Institute of Technology, Rourkela, 769008, India; Kalita, P., Department of Physics & Astronomy, National Institute of Technology, Rourkela, 769008, India; Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, B., Department of Physics & Astronomy, National Institute of Technology, Rourkela, 769008, India	Journal of Cosmology and Astroparticle Physics	2023	14757516
6472	Machine learning regression tools for erosion prediction of WC-10Co4Cr thermal spray coating	Singh J., Kumar S., Kumar R., Mohapatra S.K.	Singh, J., University Center for Research and Development, Chandigarh University, Punjab, Mohali, 140413, India; Kumar, S., Department of Mechanical Engineering, National Institute of Technology, Jharkhand, Jamshedpur, 831014, India; Kumar, R., University Center for Research and Development, Chandigarh University, Punjab, Mohali, 140413, India; Mohapatra, S.K., Department of Mechanical Engineering, Chandigarh University, Punjab, Mohali, 140413, India; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Results in Surfaces and Interfaces	2023	26668459
6473	A Novel Hybrid MSA-CSA Algorithm for Cloud Computing Task Scheduling Problems	Alsubai S., Garg H., Alqahtani A.	Alsubai, S., Department of Computer Science, College of Computer Engineering and Sciences, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India; Alqahtani, A., Department of Software Engineering, College of Computer Engineering and Sciences, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia	Symmetry	2023	20738994
6474	Optimum orientation of compact and elongated hexadecapole deformed actinide targets: Application to synthesizing superheavy nuclei	Sharma H., Jain S., Kumar R., Sharma M.K.	Sharma, H., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Jain, S., Key Laboratory of Frontiers in Theoretical Physics, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, 100190, China; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Physical Review C	2023	24699985
6475	High-Temperature Wear and Frictional Performance of Plasma-Nitrided AISI H13 Die Steel	Kumar A., Kaur M., Joseph A., Jhala G., Nanda T., Singh S.	Kumar, A., Mechanical Engineering Department, Chandigarh Group of Colleges, Sahibzada Ajit Singh Nagar, 140307, India; Kaur, M., Mechanical Engineering Department, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, 140407, India; Joseph, A., Plasma Surface Engineering Division, Facilitation Center for Industrial Plasma Technologies, Institute for Plasma Research, Gandhinagar, 382016, India; Jhala, G., Plasma Surface Engineering Division, Facilitation Center for Industrial Plasma Technologies, Institute for Plasma Research, Gandhinagar, 382016, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Technology, Patiala, 147004, India; Singh, S., Surface Engineering for Advanced Materials-SEAM, Swinburne University of Technology, Melbourne, 3122, Australia	Lubricants	2023	20754442

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6476	A NOTE ON α -BASKAKOV-DÜRRMEYER-TYPE OPERATORS	Kaur J., Goyal M.	Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Rocky Mountain Journal of Mathematics	2023	357596
6477	Methods and Applications of Data Mining in Business Domains	Amrit C., Abdi A.	Amrit, C., Department of Operations Management, Amsterdam Business School, University of Amsterdam, P.O. Box 15953, Amsterdam, 1001 NL, Netherlands, LM Thapar School of Management, Dera Bassi Campus, Chandigarh, 140507, India; Abdi, A., Department of Computing and Mathematics, Faculty of Science and Engineering, University of Derby, Derby, DE22 1GB, United Kingdom	Applied Sciences (Switzerland)	2023	20763417
6478	Coupled Cycling of Carbon and Water in the Form of Hydrous Carbonatitic Liquids in the Subarc Region	Chen W., Keshav S., Peng W., Zhang G.	Chen, W., Center of Deep Sea Research Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, Laboratory for Marine Geology, Qingdao National Laboratory for Marine Science and Technology, Qingdao, China, Center for Ocean Mega-Science, Chinese Academy of Sciences, Qingdao, China; Keshav, S., Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering & Technology, Patiala, India; Peng, W., College of Oceanography, Hohai University, Nanjing, China; Zhang, G., Center of Deep Sea Research Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, Laboratory for Marine Geology, Qingdao National Laboratory for Marine Science and Technology, Qingdao, China, Center for Ocean Mega-Science, Chinese Academy of Sciences, Qingdao, China	Journal of Geophysical Research: Solid Earth	2023	21699313
6479	Flow of hybrid nanomaterial over a wedge: shape factor of nanoparticles impact	Kumar A., Ray A.K., Saha S., Tanwar D.V., Kumar B., Sheremet M.A.	Kumar, A., Centre for Data Science, ITER, Siksha 'O' Anusandhan, Odisha, Bhubaneswar, 751030, India; Ray, A.K., Engineering Mathematics and Computing, Madhav Institute of Technology & Science, Madhya Pradesh, Gwalior, 474005, India; Saha, S., Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Tamilnadu, Chennai, 600127, India; Tanwar, D.V., Department of Mathematics, Graphic Era (Deemed to Be University), Dehradun, 242008, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sheremet, M.A., Laboratory on Convective Heat and Mass Transfer, Tomsk State University, Tomsk, 634050, Russian Federation	European Physical Journal Plus	2023	21905444
6480	Study of Rotational Effect on Even-Even 254,256Rf Isotopes of α -Particle Radioactivity Using Various Semi-Empirical Formulae	Alsultan T.Y.T., Majekodunmi J.T., Kumar R., Goh B.T., Bhuyan M.	Alsultan, T.Y.T., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Majekodunmi, J.T., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goh, B.T., Low Dimensional Materials Research Centre (LDMRC), Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia	Physics of Particles and Nuclei Letters	2023	15474771
6481	Comparative Analysis of Diversity Combining Schemes in Power Limited Cognitive Radio Under the Impact of Co-channel Interference	Bindra K.V., Sood V.V., Khanna R., Sharma S.	Bindra, K.V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sood, V.V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Wireless Personal Communications	2023	9296212
6482	Study of various ground state decay mechanisms of Actinide nuclei	Jindal C., Sharma N., Sharma M.K.	Jindal, C., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, N., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Chinese Physics C	2023	16741137
6483	Impedance spectroscopy, pyroelectric and electrocaloric response of sol gel synthesized 0.94Bi0.5Na0.5TiO3-0.06BaTiO3 ceramics	Kumar A., Jaglan N., Gautam A., Dhumrash S., Kaur K., Uniyal P.	Kumar, A., Smart Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jaglan, N., Smart Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gautam, A., Department of Applied Sciences, Chandigarh Engineering College, Jhanjeri, Punjab, Mohali, 140307, India; Dhumrash, S., Smart Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, K., Smart Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Uniyal, P., Smart Materials Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Applied Physics A: Materials Science and Processing	2023	9478396
6484	Design Issues in Intercalation-Doped-Multilayer Graphene Nanoribbon-Based Future Interconnects in Deep Submicron Regime	Kaur T., Rai M.K., Khanna R.	Kaur, T., Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, India; Rai, M.K., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Nano	2023	17932920
6485	Advanced ANN Based Secured Energy Efficient Routing Protocol in WSN	Sharma A., Kansal A.	Sharma, A., TIET, Punjab, Patiala, 147004, India, ECED, TIET, Punjab, Patiala, 147004, India; Kansal, A., TIET, Punjab, Patiala, 147004, India	Wireless Personal Communications	2023	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6486	Impact of image enhancement methods on lung disease diagnosis using x-ray images	Bhardwaj P., Kaur A.	Bhardwaj, P., Electronics and Communication, Thapar University, Punjab, Patiala, India; Kaur, A., Electronics and Communication, Thapar University, Punjab, Patiala, India	International Journal of Information Technology (Singapore)	2023	25112104
6487	Targeted drug delivery using beeswax-derived albendazole-loaded solid lipid nanoparticles in Haemonchus contortus, an albendazole-tolerant nematode	Sharma S., Goel V., Kaur P., Gadhawe K., Garg N., Das Singla L., Choudhury D.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goel, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gadhawe, K., Indian Institute of Technology (IIT), Mandi, Himachal Pradesh, Mandi, 175005, India; Garg, N., Indian Institute of Technology (IIT), Mandi, Himachal Pradesh, Mandi, 175005, India, Institute of Medical Sciences, Banaras Hindu University (BHU), Uttar Pradesh, Varanasi, 221005, India; Das Singla, L., Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Punjab, Ludhiana, 141001, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, BioX, Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Experimental Parasitology	2023	144894
6488	ACNN-BOT: An Ant Colony Inspired Feature Selection Approach for ANN Based Botnet Detection	Joshi C., Ranjan R.K., Bharti V.	Joshi, C., School of Computing, DIT University, Uttarakhand, Dehradun, India; Ranjan, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bharti, V., Department of Computer Science and Engineering, Maharishi Markandeshwar University (Deemed to be University), Haryana, Mullana, India	Wireless Personal Communications	2023	9296212
6489	Impact of quercetin concentration on the thermal stability of ultra high molecular weight polyethylene: a thermogravimetric study	Khattar N., Jagriti, Sharma P., Ahlawat V., Berar U., Diwan P.K.	Khattar, N., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136119, India; Jagriti, Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136119, India; Sharma, P., Thapar Institute of Engineering and Technology, Virginia Tech Center of Excellence in Emerging Materials, Patiala, 147004, India; Ahlawat, V., Department of Mechanical Engineering, UIET, Kurukshetra University, Kurukshetra, 136119, India; Berar, U., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136119, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136119, India	Reaction Kinetics, Mechanisms and Catalysis	2023	18785190
6490	Flow characteristics of microwave treated Indian coal: A deep learning modelling	Singh H., Kumar S., Mishra R., Mohapatra S.K., Singh A., Kumar S.	Singh, H., Department of Energy Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Kumar, S., Mechanical Engineering Department, National Institute of Technology, Jharkhand 831014, Jamshedpur, India; Mishra, R., Computing and Engineering, University of Huddersfield, Queensgate, Huddersfield, HD1 3DH, United Kingdom; Mohapatra, S.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab 140401, Rajpura, India; Kumar, S., Department of Energy Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India	Advanced Powder Technology	2023	9218831
6491	Immunoinformatics-Based Identification of the Conserved Immunogenic Peptides Targeting of Zika Virus Precursor Membrane Protein	Gupta Y., Baranwal M., Chudasama B.	Gupta, Y., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Chudasama, B., School of Physics & Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Viral Immunology	2023	8828245
6492	An Investigation on Carbon Dioxide Incorporated Sustainable Ready-Mix Concrete Using OPC and PPC	Rashid S., Singh M.	Rashid, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, M., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Arabian Journal for Science and Engineering	2023	2193567X
6493	Rise of the guardians: Gut microbial maneuvers in bacterial infections	Gupta U., Dey P.	Gupta, U., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Life Sciences	2023	243205
6494	Optimization of Semidense Bituminous Concrete Mix Gradation for Foam-Mix Asphalt Containing Agricultural and Industrial Wastes	Monu K., Sahdeo S.K., Ransinchung G.D.R.N.	Monu, K., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sahdeo, S.K., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ransinchung, G.D.R.N., Dept. of Civil Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, Roorkee, 247667, India	Journal of Materials in Civil Engineering	2023	8991561
6495	Synergistic effect of compatibilized nanoclay/polyethylene fibers on the impact strength of epoxy-glass fiber nanocomposites	Shelly D., Nanda T., Mehta R.	Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India, Tiet Virginia Tech Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India	Polymer Composites	2023	2728397
6496	Chirp Signal Based Timing Offset Estimation for GFDM Systems	Kaur M., Joshi H.D.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147001, India; Joshi, H.D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147001, India	Wireless Personal Communications	2023	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6497	Effect of double spin-orbit parameters of spin-orbit strength in reactions involving spherical-prolate, spherical-oblate, oblate-prolate and oblate-oblate configurations	Rajni, Kaushik A., Sharma M.K., Rai A.K.	Rajni, Department of Physics, Sardar Vallabhbhai National Institute of Technology, Gujarat, Surat, 395007, India, School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Kaushik, A., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Rai, A.K., Department of Physics, Sardar Vallabhbhai National Institute of Technology, Gujarat, Surat, 395007, India	Nuclear Physics A	2023	3759474
6498	Energy efficient NOMA based beamforming and power control architecture for Future communication networks	Bindle A., Gulati T., Kumar N.	Bindle, A., Electronics and Communication Engineering, Maharishi Markandeshwar (deemed to be) University, Mullana, Haryana, Ambala, India; Gulati, T., Electronics and Communication Engineering, Maharishi Markandeshwar (deemed to be) University, Mullana, Haryana, Ambala, India; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Engineering, Graphic Era University, Uttarakhand, Dehradun, India	Physical Communication	2023	18744907
6499	An Approach Toward Pattern Recognition and Decision-Making Using the Concept of Bipolar T-Spherical Fuzzy Sets	Wang H., Saad M., Karamti H., Garg H., Rafiq A.	Wang, H., School of Economics and Management, Nanchang Hangkong University, Nanchang, 330063, China; Saad, M., Department of Applied Mathematics & Statistics, Institute of Space Technology, Islamabad, 44000, Pakistan; Karamti, H., Department of Computer Sciences, College of Computer and Information Sciences, Pincess Nourah Bint Abdulrahman University, P.O. Box 84428, Riyadh, 11671, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Rafiq, A., Department of Applied Mathematics & Statistics, Institute of Space Technology, Islamabad, 44000, Pakistan	International Journal of Fuzzy Systems	2023	15622479
6500	Biomarker identification and cancer survival prediction using random spatial local best cat swarm and Bayesian optimized DNN	Dhillon A., Singh A., Bhalla V.K.	Dhillon, A., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, A., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bhalla, V.K., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Applied Soft Computing	2023	15684946
6501	Optimization of compression parameters of UHMWPE through thermal stability	Khattar N., Jagriti, Ahlawat V., Sharma P., Berar U., Diwan P.K.	Khattar, N., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Jagriti, Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Ahlawat, V., Department of Mechanical Engineering, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Sharma, P., Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Berar, U., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Materials Chemistry and Physics	2023	2540584
6502	Protein interactions and drug displacement studies of novel copper(II) and zinc(II) complexes of a dipyrzinylypyridine ligand	Sarkar P., Gupta S., Udaya Kumar A.H., Das D., Sutradhar S., Paul K., Lokanath N.K., Nath Ghosh B.	Sarkar, P., Department of Chemistry, National Institute of Technology Silchar, Assam, Silchar, India; Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, India; Udaya Kumar, A.H., Department of Studies in Physics, University of Mysore, Manasagangotri, Karnataka, Mysuru 570 006, India; Das, D., Department of Chemistry, National Institute of Technology Silchar, Assam, Silchar, India; Sutradhar, S., Department of Chemistry, National Institute of Technology Silchar, Assam, Silchar, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, India; Lokanath, N.K., Department of Studies in Physics, University of Mysore, Manasagangotri, Karnataka, Mysuru 570 006, India; Nath Ghosh, B., Department of Chemistry, National Institute of Technology Silchar, Assam, Silchar, India	Journal of Molecular Liquids	2023	1677322
6503	EXPERIMENTAL STUDIES on the SURFACE CHARACTERISTICS of BIMETALLIC JOINTS INTERFACE FABRICATED THROUGH MICROWAVE IRRADIATION	Kaushal S., Kumari S., Mudgal D., Gupta D., Vasudev H.	Kaushal, S., Gular Group of Institutions, Punjab, Ludhiana, 141401, India; Kumari, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Mudgal, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Gupta, D., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Vasudev, H., Lovely Professional University, Punjab, Jalandhar, 144001, India	Surface Review and Letters	2023	0218625X
6504	Modification of silicate structural units by K2O for enhancing automobile windshield glass properties	Kumar S., Kumar D., Singh K.	Kumar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Kumar, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Journal of Physics and Chemistry of Solids	2023	223697
6505	A method to solve Pythagorean fuzzy transportation problems	Bhatia T.K., Kumar A., Appadoo S.S., Sharma M.K.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed to Be University), Punjab, Patiala, 147004, India	International Journal of System Assurance Engineering and Management	2023	9756809

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6506	A Comprehensive Study of Different Techniques for Voltage References	Duggal K., Pandey R., Niranjan V.	Duggal, K., Department of Electronics and Communication Engineering, Indira Gandhi Delhi Technical University for Women, New Delhi, 110006, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Niranjan, V., Department of Electronics and Communication Engineering, Indira Gandhi Delhi Technical University for Women, New Delhi, 110006, India	Journal of Circuits, Systems and Computers	2023	2181266
6507	Interaction Power Bonferroni Mean Aggregation Operators Based on T-Spherical Fuzzy Information and Their Application in Multi-attribute Decision Making	Akram M., Wang H., Garg H., Ullah K.	Akram, M., Department of Mathematics, Riphah International University, Lahore Campus, Lahore, 54000, Pakistan; Wang, H., School of Economics and Management, Nanchang Hangkong University, Nanchang, 330063, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Ullah, K., Department of Mathematics, Riphah International University, Lahore Campus, Lahore, 54000, Pakistan	International Journal of Fuzzy Systems	2023	15622479
6508	Developing the inhibition mechanism for amide-based amino acids in carbonated concrete environment and assessing the migration ability in concrete	Purnima, Tiwari A.K., Goyal S., Luxami V.	Purnima, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Tiwari, A.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Building Engineering	2023	23527102
6509	Correction to: Proactive threshold-proxy re-encryption scheme for secure data sharing on cloud (The Journal of Supercomputing, (2023), 79, 13, (14117-14145), 10.1007/s11227-023-05221-3)	Raghav, Andola N., Verma K., Venkatesan S., Verma S.	Raghav, Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj, India; Andola, N., Thapar Institute of Engineering and Technology (TIET), Patiala, India; Verma, K., Department of Information Technology, KIIT University, Bhubaneswar, India; Venkatesan, S., Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj, India; Verma, S., Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj, India	Journal of Supercomputing	2023	9208542
6510	SAM C-GAN: a method for removal of face masks from masked faces	Kumar A., Kaushal M., Sharma A.	Kumar, A., School of Computer Science and Engineering, Vellore Institute of Technology, Tamil Nadu, Chennai, India; Kaushal, M., Thapar Institute of Engineering and Technology, CSED, Derabassi Campus, Punjab, India; Sharma, A., CSE, UIET, Panjab University, Chandigarh, India	Signal, Image and Video Processing	2023	18631703
6511	An investigation into the thermo-fluid behavior of volumetrically heated cavities irradiated from the side	Singh A., Kumar M., Khullar V.	Singh, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, M., Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan, Jaipur, 302017, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Thermal Sciences	2023	12900729
6512	A Deep Reinforcement Learning Scheme for Sum Rate and Fairness Maximization among D2D Pairs Underlying Cellular Network with NOMA	Vishnoi V., Budhiraja I., Gupta S., Kumar N.	Vishnoi, V., School of Computer Science Engineering and Technology, Bennett University, Noida, 201310, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, Noida, 201310, India; Gupta, S., School of Computer Science Engineering and Technology, Bennett University, Noida, 201310, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, CSED, Graphic Era University, Uttarakhand, Dehradun, 248002, India, Department of Electrical and Computer Engineerin, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, CSED, Chandigarh University, Mohali, Punjab, Gharuan, 140413, India	IEEE Transactions on Vehicular Technology	2023	189545
6513	Energy loss, dispersion and asymmetry in energy loss distribution curves of energetic ions in Terbium foils	Kumar S., Rani S., Sharma P., Diwan P.K.	Kumar, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Rani, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Sharma, P., TIET-Virginia Tech Center for Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Indian Journal of Physics	2023	9731458
6514	Medical image fusion by adaptive Gaussian PCNN and improved Roberts operator	Vajpayee P., Panigrahy C., Kumar A.	Vajpayee, P., Electronics and Communication Engineering, PDPM Indian Institute of Information Technology, Design and Manufacturing, Madhya Pradesh, Jabalpur, 482005, India; Panigrahy, C., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, A., Electronics and Communication Engineering, PDPM Indian Institute of Information Technology, Design and Manufacturing, Madhya Pradesh, Jabalpur, 482005, India	Signal, Image and Video Processing	2023	18631703
6515	Evaluation of drought-tolerant endophytic fungus Talaromyces purpureogenus as a bioinoculant for wheat seedlings under normal and drought-stressed circumstances	Kaur R., Saxena S.	Kaur, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Folia Microbiologica	2023	155632

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6516	Parametric analysis of dynamic routing protocol for wireless sensor networks	Rakheja R., Khera S., Turk N., Kamboj S.	Rakheja, R., Electronics Engineering Department, J.C.Bose University of Science and Technology, YMCA, Haryana, Faridabad, India; Khera, S., Electronics Engineering Department, J.C.Bose University of Science and Technology, YMCA, Haryana, Faridabad, India; Turk, N., Electronics Engineering Department, J.C.Bose University of Science and Technology, YMCA, Haryana, Faridabad, India; Kamboj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6517	Analysis and selection of haze-relevant features for haze detection	Kadian G., Kumar R.	Kadian, G., CSED, TIET, Punjab, Patiala, 147004, India; Kumar, R., CSED, TIET, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
6518	Federated learning for 6G-enabled secure communication systems: a comprehensive survey	Sirohi D., Kumar N., Rana P.S., Tanwar S., Iqbal R., Hijjii M.	Sirohi, D., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia, Department of Computer Science and Engineering, University of Petroleum and Energy Studies, Dehradun, 248001, India; Rana, P.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Iqbal, R., University of Dubai, Dubai, United Arab Emirates; Hijjii, M., Computer Science Department, Faculty of Computers & Information Technology, University of Tabuk, Tabuk, Saudi Arabia	Artificial Intelligence Review	2023	2692821
6519	Secrecy Rate Maximization in THz-Aided Heterogeneous Networks: A Deep Reinforcement Learning Approach	Sharma H., Kumar N., Budhiraja I., Barnawi A.	Sharma, H., the School of Computer Science, UPES, Dehradun, 248007, India; Kumar, N., the Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, the Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102-2801, Lebanon, the Department of Computer Engineering, Chandigarh University, Mohali, 140413, India, the Department of Computer Engineering, Graphic Era University, Dehradun, 248002, India, the Faculty of Computing and IT, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Budhiraja, I., the School of Computer Science Engineering and Technology, Bennett University, Noida, 201310, India; Barnawi, A., the King Abdulaziz University, Jeddah, 21589, Saudi Arabia	IEEE Transactions on Vehicular Technology	2023	189545
6520	Gut microbial considerations and feasibility of phytochemicals as anti-COVID prophylaxis: Critical role of bioavailability	Dey P.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Phytotherapy Research	2023	0951418X
6521	In-situ temperature monitoring during rotary ultrasonic-assisted drilling of fiber-reinforced composites	Shard A., Agarwal R., Garg M.P., Gupta V.	Shard, A., Department of Mechanical Engineering, DAV University, Jalandhar, India; Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Jalandhar, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Thermoplastic Composite Materials	2023	8927057
6522	Reducing scrap due to missed operations and machining defects in 90PS pistons	Singh J., Singh R., Singh S., Vasudev H., Kumar S.	Singh, J., University Centre for Research & Development, Chandigarh University, Mohali, 140413, India; Singh, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S., University Centre for Research & Development, Chandigarh University, Mohali, 140413, India, University School of Business, Chandigarh University, Mohali, 140413, India; Vasudev, H., School of Mechanical Engineering, Lovely Professional University, Phagwara, 144411, India; Kumar, S., Uttaranchal University, Uttarakhand, Dehradun, 248007, India	International Journal on Interactive Design and Manufacturing	2023	19552513
6523	Non-invasive Single Channel integration model for fetal ECG extraction and sustainable fetal healthcare using wavelet framework	Singh R., Rajpal N., Mehta R.	Singh, R., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Rajpal, N., University School of Information and Communication Technology, Guru Gobind Singh Indraprastha University, Dwarka, New-Delhi, India; Mehta, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147001, India	Multimedia Tools and Applications	2023	13807501
6524	An efficient speaker identification framework based on Mask R-CNN classifier parameter optimized using hosted cuckoo optimization (HCO)	Gaurav, Bhardwaj S., Agarwal R.	Gaurav, Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6525	An extended MABAC method based on prospect theory with unknown weight information under Fermatean fuzzy environment for risk investment assessment in B&R	Tan J., Liu Y., Senapati T., Garg H., Rong Y.	Tan, J., School of Science, Xihua University, Sichuan, Chengdu, 610039, China; Liu, Y., School of Mathematics and Information Sciences, Neijiang Normal University, Sichuan, Neijiang, 641100, China; Senapati, T., Department of Mathematics, Padima Janakalyan Banipith, Kukrakhupi, 721517, India, School of Mathematics and Statistics, Southwest University, Chongqing, Beibei, 400715, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Rong, Y., School of Management, Shanghai University, Baoshan District, Shanghai, 200444, China	Journal of Ambient Intelligence and Humanized Computing	2023	18685137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6526	A study of conformal Riemannian maps whose total manifold admits a Yamabe soliton	Maini R., Gupta G., Kumar R., Sachdeva R., Rani R., Bhatia S.S.	Maini, R., Department of Mathematics, Punjabi University, Patiala, 147 002, India; Gupta, G., Department of Mathematics, Punjabi University, Patiala, 147 002, India; Kumar, R., Department of Mathematics, Punjabi University, Patiala, 147 002, India; Sachdeva, R., Department of Mathematics, Punjabi University, Patiala, 147 002, India; Rani, R., Department of Mathematics, University College, Patiala, Ghanaur, 140 702, India; Bhatia, S.S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147 001, India	International Journal of Geometric Methods in Modern Physics	2023	2198878
6527	A Floating Decremental/ Incremental Meminductor Emulator Using Voltage Differencing Inverted Buffered Amplifier and Current Follower	Aggarwal B., Rai S.K., Arora A., Siddiqui A., Das R.	Aggarwal, B., Department of Electronics and Communication Engineering, Netaji Subhas University of Technology, New Delhi, 110078, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Arora, A., Department of Electronics and Communication Engineering, Netaji Subhas University of Technology, New Delhi, 110078, India; Siddiqui, A., Department of Electronics and Communication Engineering, Netaji Subhas University of Technology, New Delhi, 110078, India; Das, R., Department of Electronics and Communication Engineering, Asansol Engineering College, West Bengal, Asansol, 713305, India	Journal of Circuits, Systems and Computers	2023	2181266
6528	N-Heterocyclic imino-catalyzed 1,4-regioselective azide-alkyne cycloaddition (AAC): a metal-free approach	Revathi S., Shinde A.L., Rajashekhar M.K., Mandal D., Maity A.R., Garai S., Ghatak T.	Revathi, S., Advanced Catalysis Facility, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Tamil Nadu, Vellore, 632014, India; Shinde, A.L., Advanced Catalysis Facility, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Tamil Nadu, Vellore, 632014, India; Rajashekhar, M.K., Advanced Catalysis Facility, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Tamil Nadu, Vellore, 632014, India; Mandal, D., Thapar Institute of Engineering and Technology, Punjab, India; Maity, A.R., Amity University Kolkata, Kolkata, India; Garai, S., Department of Chemistry, Institute of Science, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Ghatak, T., Advanced Catalysis Facility, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Tamil Nadu, Vellore, 632014, India	Chemical Communications	2023	13597345
6529	Exploration of adulteration in common raw spices using antenna-based sensor	Nitika, Kaur J., Khanna R.	Nitika, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Microwave and Wireless Technologies	2023	17590787
6530	Landfill leachate management	Singh M., Ali M., Zargar N., Tyagi V.K., Kazmi A.A., Ojha C.S.P.	Singh, M., Department of Civil Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, 247667, India; Ali, M., Department of Civil Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, 247667, India; Zargar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tyagi, V.K., Environmental Hydrology Division, National Institute of Hydrology, Roorkee, Uttarakhand, 247667, India; Kazmi, A.A., Department of Civil Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, 247667, India; Ojha, C.S.P., Department of Civil Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, 247667, India	Landfill Leachate Management	2023	
6531	Seismic performance of corroded non-seismically and seismically detailed RC beam-column joints rehabilitated with High Strength Fiber Reinforced Concrete	Dangwal S., Singh H.	Dangwal, S., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, H., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Engineering Structures	2023	1410296
6532	Development of sustainable ternary cementitious binder with OPC integrating calcined clay and LF slag	Singh S.K., Tiwari N., Jyoti	Singh, S.K., CSIR-Central Building Research Institute, Roorkee, 247667, India; Tiwari, N., Thapar Institute of Engineering & Technology, Patiala, 147004, India; Jyoti, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	Journal of Building Engineering	2023	23527102
6533	Design of Adaptive Sensor Coupling-Based Upper Limb 7-DOF Exoskeleton for Smooth Human Motion Tracking: ASC-EXO	Suthar B., Zubair M., Kansal S., Mukherjee S.	Suthar, B., Khalifa University, Department of Aerospace Engineering, Abu Dhabi, United Arab Emirates; Zubair, M., Adamas University, Department of Mechanical Engineering, Kolkata, 700126, India; Kansal, S., Thapar Institute of Engineering Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Mukherjee, S., Indian Institute of Technology Delhi, Department of Mechanical Engineering, New Delhi, 110016, India	IEEE Sensors Journal	2023	1530437X
6534	Analysis of distance measures in intuitionistic fuzzy set theory: A line integral perspective	Liu X., Sun Y., Garg H., Zhang S.	Liu, X., School of Microelectronics & Data Science, Anhui University of Technology, Ma'anshan, Anhui, 243032, China; Sun, Y., School of Microelectronics & Data Science, Anhui University of Technology, Ma'anshan, Anhui, 243032, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphics Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Zhang, S., School of Microelectronics & Data Science, Anhui University of Technology, Ma'anshan, Anhui, 243032, China	Expert Systems with Applications	2023	9574174

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6535	A novel algorithm for autonomous parking vehicles using adjustable probabilistic neutrosophic hesitant fuzzy set features	Kaur G., Garg H.	Kaur, G., Department of Mathematics, Amity School of Applied Sciences, Amity University, Haryana, Gurugram, 122413, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq	Expert Systems with Applications	2023	9574174
6536	Semimetallic spin-density wave state in iron pnictides	Goyal G., Singh D.K.	Goyal, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physics Condensed Matter	2023	9538984
6537	Magnesium Matrix Composites by FSP- A Review	Singh B., Singh J., Joshi R.S., Singh S.	Singh, B., Department of Mechanical Engineering, Baba Banda Singh Bahadur Engineering College, Punjab, Fatehgarh Sahib, 140407, India; Singh, J., Department of Mechanical Engineering, Beant College of Engineering and Technology, Punjab143521, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab147001, India; Singh, S., Department of Mechanical Engineering, Lovely Professional University, Punjab144411, India	AIP Conference Proceedings	2023	0094243X
6538	Effect of GO-modified epoxy on the bond behavior of old-new concrete and comparison with different surface preparation techniques	Kaur M., Chawla H., Kwatra N.	Kaur, M., Research Scholar, TIET-VT Center of Excellence in Emerging Materials (CEEMS), Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala147004, India; Chawla, H., Affiliate Faculty, TIET-VT Center of Excellence in Emerging Materials (CEEMS) & Assistant Professor, Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala147004, India; Kwatra, N., Affiliate Faculty, TIET-VT Center of Excellence in Emerging Materials (CEEMS) & Professor, Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala147004, India	Construction and Building Materials	2023	9500618
6539	MXenes as Li-Ion Battery Electrodes: Progress and Outlook	Shetti N.P., Mishra A., Basu S., Aminabhavi T.M., Alodhayb A., Pandiaraj S.	Shetti, N.P., Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Vidyanagar, Karnataka, Hubballi, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India; Mishra, A., Department of Nanostructured Materials (K7), Jozef Stefan Institute, Ljubljana, 1000, Slovenia; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Aminabhavi, T.M., Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Vidyanagar, Karnataka, Hubballi, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India; Alodhayb, A., Department of Physics and Astronomy, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Pandiaraj, S., Department of Self-Development Skills, King Saud University, Riyadh, 11451, Saudi Arabia	Energy and Fuels	2023	8870624
6540	Pd(II)-Catalyzed Benzimidazole-Assisted Annulation of 3-(1H-Benzo[d]imidazol-2-yl)-2H-chromen-2-one: Access to Imidazo[1,2-a]chromeno[3,4-c]pyridine	Singla D., Luxami V., Paul K.	Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	European Journal of Organic Chemistry	2023	1434193X
6541	Blockchain-Based Secure and Intelligent Data Dissemination Framework for UAVs in Battlefield Applications	Jadav N.K., Rathod T., Gupta R., Tanwar S., Kumar N., Iqbal R., Atalla S., Mohammad H., Al-Rubaye S.	Jadav, N.K., Nirma University, India; Rathod, T., Nirma University, India; Gupta, R., Nirma University, India; Tanwar, S., Nirma University, India; Kumar, N., Thapar Institute of Engineering and Technology, India; Iqbal, R., University of Dubai, Dubai, United Arab Emirates; Atalla, S., University of Dubai, Dubai, United Arab Emirates; Mohammad, H., University of Tabuk, Saudi Arabia; Al-Rubaye, S., University, United Kingdom	IEEE Communications Standards Magazine	2023	24712825
6542	A scenario-based analysis of selected best management practices for reduced sediment and nutrient yield in the watershed located in the Shivalik hills, India	Walia S., Babbar R., Singh S.	Walia, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	H2Open Journal	2023	26166518
6543	Sea contribution to the charge radii and quadrupole moment of (Formular Presented) baryons	Bhall P., Batra M., Upadhyay A.	Bhall, P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Batra, M., Dev Samaj College for Women, Sector 45, Chandigarh, 160047, India; Upadhyay, A., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Progress of Theoretical and Experimental Physics	2023	20503911
6544	Scaling Up Banking Performance for the Realisation of Specific Sustainable Development Goals: The Interplay of Digitalisation and Training in the Transformation Journey	Bahl K., Kiran R., Sharma A.	Bahl, K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147004, India; Sharma, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, 147004, India	Sustainability (Switzerland)	2023	20711050

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6545	Comprehensive study of the kinetics of combustion and pyrolysis of petrochemical sludge: Experimentation and application of artificial neural network	Verma S., Kumar M., Kaur R., Kumar P., Sillanpää M., Štangar U.L.	Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, M., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, 247667, India; Kaur, R., Laboratory for Open Systems and Networks, Jožef Stefan Institute, Ljubljana, 1000, Slovenia; Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Sillanpää, M., Department of Biological and Chemical Engineering, Universitetsbyen 36, Aarhus C, 8000, Denmark, Department of Chemical Engineering, School of Mining, Metallurgy and Chemical Engineering, University of Johannesburg, P. O. Box 17011, Doornfontein, 2028, South Africa; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia	Journal of Analytical and Applied Pyrolysis	2023	1652370
6546	Investigating Li 6,7 -induced reactions on U 235,238 through a collective clusterization approach	Kaur R., Singh B., Kaur M., Sharma M.K., Singh P.P.	Kaur, R., IHub - AWaDH, Indian Institute of Technology Rupnagar, Punjab140001, India, University School of Engineering, Lamrin Tech Skills University, Punjab140001, India; Singh, B., Department of Physics, Akal University, Talwandi Sabo, Punjab151302, India; Kaur, M., Department of Physics, I.K.G. Punjab Technical University, Kapurthala, 144603, India; Sharma, M.K., School of Physics and Materials Science, Thapar University, Patiala, 147004, India; Singh, P.P., Department of Physics, Indian Institute of Technology Rupnagar, Punjab140001, India	Physical Review C	2023	24699985
6547	A Novel Fuzzy Relative-Position-Coding Transformer for Breast Cancer Diagnosis Using Ultrasonography	Guo Y., Jiang R., Gu X., Cheng H.-D., Garg H.	Guo, Y., Department of Computer Science, University of Illinois, Springfield, IL 62703, United States; Jiang, R., Department of Pediatrics, Xinxiang Medical University, Xinxiang, 453003, China; Gu, X., School of Information Science and Technology, North China University of Technology, Beijing, 100144, China; Cheng, H.-D., Department of Computer Science, Utah State University, Logan, UT 84322, United States; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Healthcare (Switzerland)	2023	22279032
6548	Effect of Li2O on devitrification and conductivity of MgO-V2O5 for energy storage	Dua V., Singh K.	Dua, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	APL Materials	2023	2166532X
6549	Parameter Estimation Techniques for Photovoltaic System Modeling	Singla M.K., Gupta J., Nijhawan P., Singh P., Giri N.C., Hendawi E., Abu El-Sebah M.I.	Singla, M.K., Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Rajpura, 140401, India; Gupta, J., Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Gurugram, 122505, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Giri, N.C., Department of Electronics and Communication Engineering, Centurion University of Technology and Management, Jatni752050, India; Hendawi, E., Department of Electrical Engineering, College of Engineering, Taif University, Taif, 21944, Saudi Arabia; Abu El-Sebah, M.I., Department of Power Electronics and Energy Conversion, Electronics Research Institute, Cairo, 11796, Egypt	Energies	2023	19961073
6550	Embedding Technology Interface and Digital Payment Drivers in the Unified Theory of Acceptance and Use of Technology 2 Model: Transforming Behavioral Intention to Sustained Intention	Gupta S., Kiran R., Sharma R.K.	Gupta, S., Thapar Institute of Engineering and Technology, School of Humanities and Social Sciences, Patiala, 147004, India; Kiran, R., Thapar Institute of Engineering and Technology, School of Humanities and Social Sciences, Patiala, 147004, India; Sharma, R.K., Thapar Institute of Engineering and Technology, School of Humanities and Social Sciences, Patiala, 147004, India	Sustainability (Switzerland)	2023	20711050
6551	An analysis of Gursev-Radicati mass formula for tetraquark systems	Sharma A., Upadhyay A.	Sharma, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Upadhyay, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physica Scripta	2023	318949
6552	Group decision-making algorithm with sine trigonometric p,q-quasirung orthopair aggregation operators and their applications	Rahim M., Garg H., Khan S., Alqahtani H., Abd El-Wahed Khalifa H.	Rahim, M., Department of Mathematics and Statistics, Hazara University, Khyber Pakhtunkhwa, Mansehra, 21300, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Nasiriyah, Dhi Qar, Iraq, College of Technical Engineering, The Islamic University, Najaf, Iraq; Khan, S., Department of Mathematics and Statistics, Hazara University, Khyber Pakhtunkhwa, Mansehra, 21300, Pakistan; Alqahtani, H., Department of Statistics and Business Analytics, United Arab Emirates University, United Arab Emirates; Abd El-Wahed Khalifa, H., Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya, 51951, Saudi Arabia, Department of Operations and Management Research, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, 12613, Egypt	Alexandria Engineering Journal	2023	11100168
6553	A Perspective on Removal of Cyanotoxins from Water Through Advanced Oxidation Processes	Verma S., Kumar P., Lavrenčić Štangar U.	Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Lavrenčić Štangar, U., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia	Global Challenges	2023	20566646

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6554	Plant growth-promoting endophyte <i>Nigrospora oryzae</i> mitigates abiotic stress in rice (<i>Oryza sativa</i> L.)	Sodhi G.K., Saxena S.	Sodhi, G.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	FEMS Microbiology Ecology	2023	1686496
6555	Investigation of phase, structural, and electrical properties of BNT–BT solid solutions in the vicinity of MPB regime	Singh P., Sharma A., Sharma P., Kolte J.	Singh, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Applied Physics A: Materials Science and Processing	2023	9478396
6556	Privacy-preserving cloud data sharing for healthcare systems with hybrid blockchain	Raghav, Andola N., Venkatesan S., Verma S.	Raghav, Indian Institute of Information Technology Allahabad, Prayagraj, India; Andola, N., Thapar Institute of Engineering and Technology, Thapar, India; Venkatesan, S., Indian Institute of Information Technology Allahabad, Prayagraj, India; Verma, S., Indian Institute of Information Technology Allahabad, Prayagraj, India	Peer-to-Peer Networking and Applications	2023	19366442
6557	Recycling of calcined low-grade limestone slurry in producing low carbon cementitious binder towards sustainable environment: ANOVA, statistical modeling & microstructural performance	Anurag, Kumar R., Goyal S.	Anurag, Advanced Concrete, Steel & Composites (ACSC) Division, CSIR- Central Building Research Institute, Uttarakhand, Roorkee, 247 667, India; Kumar, R., Advanced Concrete, Steel & Composites (ACSC) Division, CSIR- Central Building Research Institute, Uttarakhand, Roorkee, 247 667, India; Goyal, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Environmental Development	2023	22114645
6558	Fruit waste-derived cellulose-templated hierarchical spheres of ultrathin MoS ₂ nanosheets for oxygen evolution reactions	Joshi P., Upadhyay S., Pandey A., Pandey O.P., Srivastava M., Khatri O.P.	Joshi, P., CSIR-Indian Institute of Petroleum, Dehradun, 248005, India, Academy of Scientific and Innovative Research, Ghaziabad, 201002, India; Upadhyay, S., Department of Chemistry, Bar-Ilan Institute of Nanotechnology and Advanced Materials, Bar-Ilan University, Ramat Gan, 529002, Israel; Pandey, A., CSIR-Indian Institute of Petroleum, Dehradun, 248005, India, Academy of Scientific and Innovative Research, Ghaziabad, 201002, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Srivastava, M., CSIR-Indian Institute of Petroleum, Dehradun, 248005, India, Academy of Scientific and Innovative Research, Ghaziabad, 201002, India; Khatri, O.P., CSIR-Indian Institute of Petroleum, Dehradun, 248005, India, Academy of Scientific and Innovative Research, Ghaziabad, 201002, India	FlatChem	2023	24522627
6559	Generalized linear diophantine fuzzy Choquet integral with application to the project management and risk analysis	Riaz M., Garg H., Hashmi M.R., Farid H.M.A.	Riaz, M., Department of Mathematics, University of the Punjab, Lahore, 54590, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Hashmi, M.R., Department of Mathematics, University of the Punjab, Lahore, 54590, Pakistan, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, Uttarakhand, 248002, India; Farid, H.M.A., Department of Mathematics, University of the Punjab, Lahore, 54590, Pakistan, Applied Science Research Center, Applied Science Private University, Amman 11931, Jordan College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq	Computational and Applied Mathematics	2023	22383603
6560	PSO with improved local unimodal search ability for incipient pump fault identification	Singh U.K., Tripathi J.P., Khanna K.	Singh, U.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Tripathi, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2023	2562499
6561	Graphene oxide-coated Ag-TiO ₂ hybrid nanocomposites for superior photocatalytic activity	Kaur D., Singh K., Reynolds W.T., Jr., Pal B.	Kaur, D., School of Chemistry and Biochemistry, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Chemistry and Biochemistry, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Reynolds, W.T., Jr., Materials Science and Engineering Department, Virginia Tech, Blacksburg, VA 24061-0237, United States; Pal, B., School of Chemistry and Biochemistry, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Environmental Science and Pollution Research	2023	9441344
6562	Preparation of graphitic carbon nitride (g-C ₃ N ₄) for novel dielectric and photocatalytic dye removal applications	Gupta A., Jaidka S., Rajagopalan P., Mehtani H.K., Singhal V., Pandey O.P.	Gupta, A., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India; Jaidka, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rajagopalan, P., Cross College of Elite Program, National Cheng Kung University, Tainan, 70101, Taiwan; Mehtani, H.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singhal, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physica Scripta	2023	318949
6563	An Approach for Validating Roundabout Using Spline and Curvature for Map Data	Singh R., Rana P.S., Jindal N.	Singh, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Rana, P.S., Faculty, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Jindal, N., Faculty, Department Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India	Wireless Personal Communications	2023	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6564	Removal of cadmium and arsenic from water through biomineralization	Kaur M., Sidhu N., Reddy M.S.	Kaur, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sidhu, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Environmental Monitoring and Assessment	2023	1676369
6565	Cascaded dual fuzzy logic controller for stable microgrid operation mitigating effects of natural uncertainty in solar and wind energy sources	Mehta S., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	e-Prime - Advances in Electrical Engineering, Electronics and Energy	2023	27726711
6566	Real-Time Traffic Light Optimization Using Simulation of Urban Mobility	Garg T., Kaur G., Rana P.S.	Garg, T., Sant Longowal Institute of Engineering and Technology, Punjab, Longowal, Sangrur, 148106, India; Kaur, G., Sant Longowal Institute of Engineering and Technology, Punjab, Longowal, Sangrur, 148106, India; Rana, P.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	SN Computer Science	2023	2662995X
6567	Fructokinases in potato (Solanum tuberosum L.): molecular cloning, sequence analyses, three-dimensional structure prediction, enzyme activity and purification by aqueous two-phase system	Kaur G., Das N.	Kaur, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Plant Biochemistry and Biotechnology	2023	9717811
6568	A machine learning-based decision support system for temporal human cognitive state estimation during online education using wearable physiological monitoring devices	Gupta S., Kumar P., Tekchandani R.	Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India, Department of Computer Science, Whitman College, Walla Walla, WA, United States; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India	Decision Analytics Journal	2023	27726622
6569	An optimized deep convolutional neural network for adaptive learning using feature fusion in multimodal data	Gupta S., Kumar P., Tekchandani R.	Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India, Department of Computer Science, Whitman College, Walla Walla, WA, United States; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, 147004, India	Decision Analytics Journal	2023	27726622
6570	A systematic review on performance evaluation metric selection method for IoT-based applications	Patel K., Mistry C., Gupta R., Tanwar S., Kumar N.	Patel, K., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Mistry, C., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of CSE, Graphic Era University, Uttarakhand, Dehradun, India, School of Computing, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India	Microprocessors and Microsystems	2023	1419331
6571	Depth Resolved Thermal Wave Imaging Approach for Non-Destructive Testing and Evaluation of Steel Sample	Arora V., Mulaveesala R., Dua G.	Arora, V., InfraRed Vision & Automation Pvt. Ltd, Ward NO 8, Punjab, Rupnagar, Sun City, 140001, India, Indian Institute of Information Technology Una, Permanent Campus: Vill. Saloh, Teh., Himachal Pradesh, Haroli, 177209, India; Mulaveesala, R., InfraRed Imaging Laboratory (IRIL), Centre for Sensors, Instrumentation and cyber-physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Rd, Adarsh Nagar, Prem Nagar, Punjab, Patiala, 147004, India	Journal of Nondestructive Evaluation	2023	1959298
6572	Evaluation of Spectral Characteristics of Asphalt Mixtures	Patel V.D., Kumar A., Bharti R., Choudhary R., Kumar A.	Patel, V.D., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Kumar, A., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bharti, R., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Choudhary, R., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Kumar, A., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India	Journal of Materials in Civil Engineering	2023	8991561
6573	Real-time traffic, accident, and potholes detection by deep learning techniques: a modern approach for traffic management	Babbar S., Bedi J.	Babbar, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Neural Computing and Applications	2023	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6574	Healing of cracks in concrete by using bacterial spores immobilized in metakaolin	Sidhu N., Goyal S., Sudhakara Reddy M.	Sidhu, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Structures	2023	23520124
6575	An interpreter ranking index-based MCDM technique for COVID-19 treatments under a bipolar fuzzy environment	Garai T., Garg H.	Garai, T., Department of Mathematics, Syamsundar College, Syamsundar, West Bengal, Purba Bardhaman, 713424, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq	Results in Control and Optimization	2023	26667207
6576	Global intuitionistic fuzzy weighted C-ordered means clustering algorithm	Kaushal M., Garg H., Lohani Q.M.D.	Kaushal, M., Department of Mathematics, South Asian University, Chanakyapuri, New Delhi, 10021, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Lohani, Q.M.D., Department of Mathematics, South Asian University, Chanakyapuri, New Delhi, 10021, India	Information Sciences	2023	200255
6577	Synergic effect of B and N dopants in graphene for supercapacitance and electrochemical sensing applications	Kaur A., Pandey O.P., Brar L.K.	Kaur, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physics and Chemistry of Solids	2023	223697
6578	Predicting biomechanical properties of additively manufactured polydopamine coated poly lactic acid bone plates using deep learning	Sharma S., Gupta V., Mudgal D., Srivastava V.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India; Srivastava, V., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab147004, India	Engineering Applications of Artificial Intelligence	2023	9521976
6579	Anti-oxidant potential of plants and probiotic spp. in alleviating oxidative stress induced by H2O2	Kumar H., Dhalaria R., Guleria S., Cimler R., Sharma R., Siddiqui S.A., Valko M., Nepovimova E., Dhanjal D.S., Singh R., Kumar V., Pathera A.K., Verma N., Kaur T., Manickam S., Alomar S.Y., Kuča K.	Kumar, H., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Rokitanskeho 62, Hradec Kralove, 50003, Czech Republic; Dhalaria, R., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, 173229, India; Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Cimler, R., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Rokitanskeho 62, Hradec Kralove, 50003, Czech Republic; Sharma, R., School of Bioengineering & Food Technology, Shoolini University of Biotechnology and Management Sciences, Solan, 173229, India; Siddiqui, S.A., Campus Straubing for Biotechnology and Sustainability, Technical University of Munich, Essigberg 3, Straubing, 94315, Germany; Valko, M., Faculty of Chemical and Food Technology, Slovak University of Technology, Bratislava, 81237, Slovakia; Nepovimova, E., Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, 50005, Czech Republic; Dhanjal, D.S., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Singh, R., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, 144411, India; Kumar, V., Central Ayurveda Research Institute, Uttar Pradesh, Jhansi, 284003, India; Pathera, A.K., Amity Institute of Food Technology, Amity University, Noida, 201313, India; Verma, N., School of Management and Liberal Arts, Shoolini University of Biotechnology and Management Sciences, Solan, 173229, India; Kaur, T., Department of Microbiology, DAV University, Sarmastpur, Punjab, Jalandhar, 144001, India; Manickam, S., Petroleum and Chemical Engineering, Faculty of Engineering, Universiti Teknologi Brunei, Bandar Seri Begawan, BE1410, Brunei Darussalam; Alomar, S.Y., Zoology Department, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Kuča, K., Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, 50005, Czech Republic, Andalusian Research Institute in Data Science and Computational Intelligence (DaSCI), University of Granada, Granada, 18071, Spain, Biomedical Research Center, University Hospital Hradec Kralove, Hradec Kralove, 50005, Czech Republic	Biomedicine and Pharmacotherapy	2023	7533322

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6580	A systematic analysis of deep learning methods and potential attacks in internet-of-things surfaces	Barnawi A., Gaba S., Alphy A., Jabbari A., Budhiraja I., Kumar V., Kumar N.	Barnawi, A., Department of Information Technology, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 80221, Saudi Arabia; Gaba, S., Panipat Institute of Engineering and Technology, Haryana, Panipat, 132102, India, School of Computer Science Engineering and Technology (SCSET), Bennett University, Gautam Budh Nagar, Uttar Pradesh, Greater Noida, 201310, India; Alphy, A., SRM Institute of Science and Technology, Delhi NCR Campus, Uttar Pradesh, Ghaziabad, India; Jabbari, A., Department of Computer Science Network Engineering, College of Computer Science and Information Technology, Jazan University, Jazan, 45142, Saudi Arabia; Budhiraja, I., School of Computer Science Engineering and Technology (SCSET), Bennett University, Gautam Budh Nagar, Uttar Pradesh, Greater Noida, 201310, India; Kumar, V., School of Computer Science Engineering and Technology (SCSET), Bennett University, Gautam Budh Nagar, Uttar Pradesh, Greater Noida, 201310, India; Kumar, N., Department of Information Technology, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 80221, Saudi Arabia, Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Computer Science Engineering, Graphic Era University, Uttarakhand, Dehradun, India, Computer and Electrical Engineering, Lebanese American University, Beirut, Lebanon, Department of Computer Science and Engineering, Chandigarh University, Punjab, Gharuan, Mohali, Chandigarh, India	Neural Computing and Applications	2023	9410643
6581	Dispersal engendered synchronization and stability of mediated infectious diseases in the patchy environment using mean-field diffusive coupling	Verma T.	Verma, T., School of Mathematics, Thapar Institute of Engineering and Technology Patiala, Punjab, 147004, India	Communications in Nonlinear Science and Numerical Simulation	2023	10075704
6582	E-learning enhancement through educational data mining with Covid-19 outbreak period in backdrop: A review	Aulakh K., Roul R.K., Kaushal M.	Aulakh, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Roul, R.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaushal, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Educational Development	2023	7380593
6583	Deep Reinforcement Learning and NOMA-Based Multi-Objective RIS-Assisted IS-UAV-TNs: Trajectory Optimization and Beamforming Design	Guo K., Wu M., Li X., Song H., Kumar N.	Guo, K., Space Engineering University, School of Space Information, Beijing, 101407, China; Wu, M., Space Engineering University, School of Space Information, Beijing, 101407, China; Li, X., Henan Polytechnic University, School of Physics and Electronic Information Engineering, Jiaozuo, 454000, China; Song, H., University of Maryland Baltimore County (UMBC), Department of Information Systems, Baltimore, MD 21250, United States; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon, Chandigarh University, Computer Science and Engineering Department, Mohali, 160012, India, King Abdulaziz University, Faculty of Computing and IT, Jeddah, 21589, Saudi Arabia	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
6584	Optical, Structural and Mechanical Properties of Automobile Front Panel Windshield Glasses	Kumar S., Singh K., Kumar D.	Kumar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Silicon	2023	1876990X
6585	Endophytic fungi: a potential source for drugs against central nervous system disorders	Pant A., Vasundhara M.	Pant, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Vasundhara, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Brazilian Journal of Microbiology	2023	15178382
6586	Blockchain enabled food supply chain management: A systematic literature review and bibliometric analysis	Sharma A., Sharma A., Bhatia T., Singh R.K.	Sharma, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Sharma, A., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bhatia, T., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, R.K., International Management Institute, Kolkata, 700008, India	Operations Management Research	2023	19369735
6587	CBP: Coalitional-Game-Based Broadcast Proxy Re-Encryption in IoT	Maiti S., Misra S., Mondal A.	Maiti, S., Thapar Institute of Engineering and Technology Patiala, Computer Science and Engineering Department, Patiala, 147004, India; Misra, S., Indian Institute of Technology Kharagpur, Department of Computer Science and Engineering, Kharagpur, 721302, India; Mondal, A., Indian Institute of Technology Indore, Department of Computer Science and Engineering, Indore, 453552, India	IEEE Internet of Things Journal	2023	23274662
6588	Optimization of Chromium(III) Sorption by Activated Sludge Using Response Surface Methodology	Benhammadi S., Aguedal H., Ouazani F., Iddou A., Sethi S., Goel G.	Benhammadi, S., Mohammed BOUDIAF University of Science and Technology, Oran, Algeria; Aguedal, H., University of Saharan Agriculture, Adrar, Algeria; Ouazani, F., Djillali LIABES University of Sidi Bel Abbes, Algeria; Iddou, A., Higher School of Saharan Agriculture, Adrar, Algeria; Sethi, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Cranfield University, School of Aerospace, Transport and Manufacturing, Cranfield, MK430AL, United Kingdom	Chemical Engineering and Technology	2023	9307516

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6589	Synthesis of bio-based materials from agricultural residues for treatment of petrochemical wastewater	Nasir M., Kumar P., Srivastava V.C., Verma S., Kaur R., Mall I.D., Štangar U.L.	Nasir, M., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, Roorkee, 247667, India; Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia; Srivastava, V.C., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, Roorkee, 247667, India; Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kaur, R., Laboratory for Open Systems and Networks, Jožef Stefan Institute, Ljubljana, 1000, Slovenia; Mall, I.D., Department of Chemical Engineering, Indian Institute of Technology, Roorkee, Uttarakhand, Roorkee, 247667, India; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia	Clean Technologies and Environmental Policy	2023	1618954X
6590	Proactive threshold-proxy re-encryption scheme for secure data sharing on cloud	Raghav, Andola N., Verma K., Venkatesan S., Verma S.	Raghav, Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj, India; Andola, N., Thapar Institute of Engineering and Technology (TIET), Patiala, India; Verma, K., Department of Information Technology, KIIT University, Bhubaneswar, India; Venkatesan, S., Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj, India; Verma, S., Department of Information Technology, Indian Institute of Information Technology Allahabad, Prayagraj, India	Journal of Supercomputing	2023	9208542
6591	Low Frequency Magnetolectric Effect in Bi _{0.5} Na _{0.5} TiO ₃ -Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ Particulate Composites	Singh P., Laishram R., Kolte J., Sharma P.	Singh, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Laishram, R., Solid State Physics Laboratory, Lucknow Road, Timarpur, Delhi, 110054, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Electronic Materials Letters	2023	17388090
6592	Wilson's disease classification using higher-order Gabor tensors and various classifiers on a small and imbalanced brain MRI dataset	Tiwari A.	Tiwari, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147002, India	Multimedia Tools and Applications	2023	13807501
6593	An ensemble mosaicing and ridgelet based fusion technique for underwater panoramic image reconstruction and its refinement	Jindal H., Bharti M., Kasana S.S., Saxena S.	Jindal, H., Computer Science and Engineering Department, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh 173234, India; Bharti, M., Computer Science and Engineering Department, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh 173234, India; Kasana, S.S., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, 147004, India; Saxena, S., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
6594	Slot and SRR-Loaded Quad-Port, Hen-Shaped Fractal UWB-MIMO Antenna with Quad Band-Reject Ability for Handheld 4G/5G Wireless Devices	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2023	22286179
6595	Optimal Power Flow Solution Using Space Transformational Invasive Weed Optimization Algorithm	Kaur M., Narang N.	Kaur, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2023	22286179
6596	Performance Evaluation of a Novel Intrusion Detection System in Next Generation Networks	Sood K., Nguyen D.D.N., Nosouhi M.R., Kumar N., Jiang F., Chowdhury M., Doss R.	Sood, K., Deakin University, School of IT, Melbourne, VIC 3125, Australia; Nguyen, D.D.N., Deakin University, School of IT, Melbourne, VIC 3125, Australia; Nosouhi, M.R., Deakin University, School of IT, Melbourne, VIC 3125, Australia; Kumar, N., University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon, King Abdulaziz University, Faculty of Computing and IT, Jeddah, 21589, Saudi Arabia, Chandigarh University, Mohali, 140413, India, Thapar University, Patiala, 146004, India; Jiang, F., Deakin University, School of IT, Melbourne, VIC 3125, Australia; Chowdhury, M., Deakin University, School of IT, Melbourne, VIC 3125, Australia; Doss, R., Deakin University, School of IT, Melbourne, VIC 3125, Australia	IEEE Transactions on Network and Service Management	2023	19324537

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6597	Distributed Deep Reinforcement Learning Assisted Resource Allocation Algorithm for Space-Air-Ground Integrated Networks	Zhang P., Li Y., Kumar N., Chen N., Hsu C.-H., Barnawi A.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, 710071, China; Li, Y., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102 2801, Lebanon, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, Chandigarh University, Mohali, 140413, India; Chen, N., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, 266580, China; Hsu, C.-H., Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, Department of Medical Research, China Medical University Hospital, China Medical University, Taichung, 40402, Taiwan, Guangdong-Hong Kong-Macao Joint Laboratory for Intelligent Micro-Nano Optoelectronic Technology, School of Mathematics and Big Data, Foshan University, Foshan, 528000, China; Barnawi, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia	IEEE Transactions on Network and Service Management	2023	19324537
6598	Small Footprint Biocompatible Antenna for Implantable Devices: Design, In-Silico, In-Vitro and Ex-Vivo Testing	Singh G., Kaur J.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2023	22286179
6599	XPoM-based 8-port photonic interconnection with low polarization sensitivity utilizing S-E-S hybridization	Kaur H., Kaler R.S.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Nonlinear Optical Physics and Materials	2023	2188635
6600	Feature Extraction Based Deep Indexing by Deep Fuzzy Clustering for Image Retrieval Using Jaro Winkler Distance	Kumar B.M., Ainapure B.S., Singh S.P., Vyas S.	Kumar, B.M., Department of Information Technology, PSNA College of Engineering and Technology, Tamil Nadu, Dindigul, 624622, India; Ainapure, B.S., Department of Computer Engineering, Vishwakarma University, Laxmi Nagar, Maharashtra, Kondhwa, Pune, 411048, India; Singh, S.P., Departement of Information Technology, I.E.T., D.D.U. Gorakhpur University, Uttar Pradesh, Gorakhpur, 273009, India; Vyas, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India	Computer Journal	2023	104620
6601	On α - Bézier curves and surfaces	Kaur J., Goyal M.	Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Bollettino dell'Unione Matematica Italiana	2023	19726724
6602	Blockchain-Enabled Cybersecurity Efficient IIOHT Cyber-Physical System for Medical Applications	Lakhan A., Mohammed M.A., Nedoma J., Martinek R., Tiwari P., Kumar N.	Lakhan, A., Dawood University of Engineering and Technology, Department of CyberSecurity and Computer Science, Karachi, 74800, Pakistan; Mohammed, M.A., University of Anbar, College of Computer Science and Information Technology, Anbar, Ramadi, 31001, Iraq; Nedoma, J., VSB-Technical University of Ostrava, Department of Telecommunications, Ostrava, 70800, Czech Republic; Martinek, R., VSB-Technical University of Ostrava, Department of Cybernetics and Biomedical Engineering, Ostrava, 70800, Czech Republic; Tiwari, P., Halmstad University, School of Information Technology, Halmstad, 301 18, Sweden; Kumar, N., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, Lebanon, King Abdulaziz University, Faculty of Computing and IT, Jeddah, 22254, Saudi Arabia	IEEE Transactions on Network Science and Engineering	2023	23274697
6603	Intensity bound limit filter for high density impulse noise removal	Satti P., Shrotriya V., Garg B., Thanh D.N.H.	Satti, P., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147001, India; Shrotriya, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147001, India; Garg, B., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147001, India; Thanh, D.N.H., Department of Information Technology, College of Technology and Design, University of Economics Ho Chi Minh City (UEH), Ho Chi Minh City, 70000, Viet Nam	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6604	HUQRS: hazy unpaired dataset for road safety	Juneja A., Singla S.K., Kumar V.	Juneja, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Computer Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, India	Visual Computer	2023	1782789
6605	Corporate environmental responsiveness: a bibliometric and content analysis	Bhatt Y., Ghuman K.	Bhatt, Y., Graphic Era (Deemed to be University), Uttarakhand, Dehradun, 248001, India; Ghuman, K., LM Thapar School of Management, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, 147004, India	Management Review Quarterly	2023	21981620
6606	Energy and delay efficient data acquisition in wireless sensor networks by selecting optimal visiting points for mobile sink	Verma R.K., Jain S.	Verma, R.K., Department of Computer Science, Indian Institute of Information Technology, Lucknow, India; Jain, S., Thapar Institute of Engineering & Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6607	Utilization of banana waste as a resource material for biofuels and other value-added products	Gupta G., Baranwal M., Saxena S., Reddy M.S.	Gupta, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Biomass Conversion and Biorefinery	2023	21906815
6608	Slurry erosion performance analysis and characterization of high-velocity oxy-fuel sprayed Ni and Co hardsurfacing alloy coatings	Singh J.	Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of King Saud University - Engineering Sciences	2023	10183639
6609	Implementation of a multi-layered land degradation monitoring and forecasting framework toward integrated countermeasure planning in drylands	Gupta S.K., Kim J., Zucca C., Sharma A.	Gupta, S.K., Punjab Remote Sensing Centre, Punjab, Ludhiana, India, Porter School of Environment and Earth Sciences, Tel Aviv University, Tel Aviv, Israel; Kim, J., Department of Geoinformatics, University of Seoul, Seoul, South Korea; Zucca, C., Dipartimento di Agraria, Università degli Studi di Sassari, Sassari, Italy, Centre for Sustainable Management of Soil and Landscape (SMSL), Università degli Studi di Sassari, Sassari, Italy; Sharma, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Land Degradation and Development	2023	10853278
6610	Efficient dynamic key-aggregate cryptosystem for secure and flexible data sharing	Pareek G., Maiti S.	Pareek, G., Department of Computer Science and Engineering, Indian Institute of Information Technology Vadodara, International Campus Diu, U.T., Diu, India; Maiti, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Concurrency and Computation: Practice and Experience	2023	15320626
6611	Applications of statistical signal processing for infrared non-destructive testing and evaluation	Rani A., Arora V., Dua G., Sharma A., Mulaveesala R.	Rani, A., Infrared Imaging Research Lab, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Arora, V., Infrared Imaging Research Lab, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Dua, G., Thapar Institute of Engineering and Technology, Bhadson Road, Adarsh Nagar, Prem Nagar, Patiala, Punjab, 147004, India; Sharma, A., Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Mulaveesala, R., Centre for Sensors, Instrumentation and Cyber-Physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Advanced Signal Processing for Industry 4.0	2023	
6612	Unconventional Behavior of Na2O in MgO-V2O5 Glasses in Comparison to Silicate Glasses	Dua V., Choudhury S., Mahatha S.K., Singh K.	Dua, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhury, S., UGC-DAE Consortium for Scientific Research, Khandwa Road, Madhya Pradesh, Indore, 452001, India; Mahatha, S.K., UGC-DAE Consortium for Scientific Research, Khandwa Road, Madhya Pradesh, Indore, 452001, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physical Chemistry C	2023	19327447
6613	Persistence of the N = 50 shell closure over the isotopic chains of Sc, Ti, V and Cr nuclei using relativistic energy density functional	Yadav P.K., Kumar R., Bhuyan M.	Yadav, P.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia	Modern Physics Letters A	2023	2177323
6614	Coumarin-Pyrazole Based Fluorescent Sensor for Selective Detection of Dopamine in Aqueous Medium	Palta A., Singla D., Paul K., Luxami V.	Palta, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singla, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	ChemistrySelect	2023	23656549
6615	Robotic sensor based on score and accuracy values in q-rung complex diophantine neutrosophic normal set with an aggregation operation	Palanikumar M., Kausar N., Garg H., Kadry S., Kim J.	Palanikumar, M., Department of Mathematics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India; Kausar, N., Department of Mathematics, Faculty of Arts and Science, Yildiz Technical University, Esenler, 34220, Istanbul, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphics Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Kadry, S., Department of Applied Data Science, Noroff University College, Kristiansand, 4612, Norway, Artificial Intelligence Research Center (AIRC), Ajman University, Ajman, 346, United Arab Emirates, Department of Electrical and Computer Engineering, Lebanese American University, Byblos, 1102-2801, Lebanon; Kim, J., Department of Software, Kongju National University, Cheonan, 31080, South Korea	Alexandria Engineering Journal	2023	11100168
6616	Asymmetric SiO2 structural units modification by Li2O and their effect on optical and mechanical properties of soda lime silicate glasses	Kumar S., Singh K., Kumar D.	Kumar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Ceramics International	2023	2728842

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6617	Salmonella typhimurium detection and ablation using OmpD specific aptamer with non-magnetic and magnetic graphene oxide	Gupta R., Singh V., Sarawagi N., Kaur G., Kaur R., Priyadarshi N., Rishi V., Goyal B., Mishra P.P., Singhal N.K.	Gupta, R., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India, Department of Biotechnology, Panjab University, Sector 25, Chandigarh, 160014, India; Singh, V., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India, ICMR-National Institute for Implementation Research on Non-Communicable Diseases, New Pali Road, Rajasthan, Jodhpur, 342005, India; Sarawagi, N., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India; Kaur, G., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Kaur, R., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India, Department of Biotechnology, Panjab University, Sector 25, Chandigarh, 160014, India; Priyadarshi, N., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India; Rishi, V., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India; Goyal, B., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Mishra, P.P., Saha Institute of Nuclear Physics, Bidhan Nagar, West Bengal, Kolkata, 700064, India, Homi Bhabha National Institute, Maharashtra, Mumbai, 400094, India; Singhal, N.K., National Agri-Food Biotechnology Institute, Sector 81, Mohali, 140306, India	Biosensors and Bioelectronics	2023	9565663
6618	Simplified One-Pot Synthesis of Graphene Oxide from Different Coals and its Potential Application in Enhancing the Mechanical Performance of GFRP Nanocomposites	Garg A., Basu S., Lee S.-Y., Mahajan R.L., Mehta R.	Garg, A., TIET-VT Center of Excellence in Emerging Materials, School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., TIET-VT Center of Excellence in Emerging Materials, School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Lee, S.-Y., Department of Chemistry, Inha University, Incheon, 22212, South Korea; Mahajan, R.L., Department of Mechanical Engineering and Institute for Critical Technology and Applied Science, Virginia Tech, Blacksburg, VA 24061, United States, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Mehta, R., TIET-VT Center of Excellence in Emerging Materials, Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	ACS Applied Nano Materials	2023	25740970
6619	Taguchi optimized sliding wear behavior and hardness of novel Grewia optiva/Basalt fiber reinforced hybrid polyester composites	Bijlwan P.P., Prasad L., Sharma A., Kumar S.	Bijlwan, P.P., Mechanical Engineering Department, National Institute of Technology Uttarakhand, Srinagar Garhwal, India; Prasad, L., Mechanical Engineering Department, National Institute of Technology Uttarakhand, Srinagar Garhwal, India; Sharma, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, S., Mechanical Engineering Department, Dev Bhoomi Uttarakhand University Dehradun, Dehradun, India	Journal of Applied Polymer Science	2023	218995
6620	Transport effects in biochip sensors with redox cycling amplification	Dotan T., Nazarenko M., Atiya Y., Shacham-Diamand Y.	Dotan, T., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, 69978, Israel, Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, Israel; Nazarenko, M., Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, Israel; Atiya, Y., Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, Israel; Shacham-Diamand, Y., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, 69978, Israel, Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel-Aviv, Israel, TAU/TIET Food Security Center of Excellence (TTFSCoE), Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Electrochimica Acta	2023	134686
6621	Divergent and Selective Synthesis of 3-Alkylidene Oxindoles Using Pd-Catalyzed Multicomponent Reaction	Soam P., Mandal D., Tyagi V.	Soam, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Organic Chemistry	2023	223263
6622	Detection of psychological stress using principal component analysis of phonocardiography signals	Cheema A., Singh M.	Cheema, A., Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Singh, M., Thapar Institute of Engineering and Technology, Patiala, Punjab, India	Affective Computing in Healthcare: Applications based on biosignals and artificial intelligence	2023	
6623	A New Electronically Tunable Current Differencing Transconductance Amplifier Based Meminductor Emulator and its Application	Jain H., Rai S.K., Aggarwal B.	Jain, H., Netaji Subhas University of Technology, Delhi, 110 088, India; Rai, S.K., Thapar Institute of Engineering and Technology, Punjab, 147 004, India; Aggarwal, B., Netaji Subhas University of Technology, Delhi, 110 088, India	Indian Journal of Engineering and Materials Sciences	2023	9714588
6624	An Empire in Disguise: The Appropriation of Pre-Existing Modes of Governance in Dutch South Asia, 1650-1800	Schrikker A., Sur B.	Schrikker, A., Leiden University, Netherlands; Sur, B., Thapar Institute of Engineering and Technology, India	Law and History Review	2023	7382480
6625	A Study of Plane and Rayleigh Waves in a Microstructural Medium: the Role of Size Dependency and Thermal Effects	Sharma V., Kumar S.	Sharma, V., Department of Mathematics, Lovely Professional University, Punjab, Phagwara, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mechanics of Solids	2023	256544

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6626	A Novel Artificial-Intelligence-Based Approach for Classification of Parkinson's Disease Using Complex and Large Vocal Features	Nijhawan R., Kumar M., Arya S., Mendiritta N., Kumar S., Towfek S.K., Khafaga D.S., Alkahtani H.K., Abdelhamid A.A.	Nijhawan, R., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, M., Blackstraw Technologies Pvt Ltd, Chennai, 160015, India; Arya, S., Graphic Era University, Dehradun, 248002, India; Mendiritta, N., Computer Science and Engineering, Chandigarh University, Ajitgarh, 140413, India; Kumar, S., Department of Computer Science and Artificial Intelligence, SR University, Warangal, 506371, India, Department of Computer Science, Graphic Era Hill University, Dehradun, 248001, India; Towfek, S.K., Computer Science and Intelligent Systems Research Center, Blacksburg, VA 24060, United States, Department of Communications and Electronics, Delta Higher Institute of Engineering and Technology, Mansoura, 35111, Egypt; Khafaga, D.S., Computer Sciences, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, P.O. Box 84428, Riyadh, 11671, Saudi Arabia; Alkahtani, H.K., Department of Information Systems, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, P.O. Box 84428, Riyadh, 11671, Saudi Arabia; Abdelhamid, A.A., Department of Computer Science, College of Computing and Information Technology, Shaqra University, Shaqra, 11961, Saudi Arabia, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, 11566, Egypt	Biomimetics	2023	23137673
6627	Revolutionizing the Role of Solar Light Responsive BIVO4/BIOBr Heterojunction Photocatalyst for the Photocatalytic Deterioration of Tetracycline and Photoelectrocatalytic Water Splitting	Singla S., Devi P., Basu S.	Singla, S., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, P., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials	2023	19961944
6628	Unmanned Ariel Vehicle (UAV) Path Planning for Area Segmentation in Intelligent Landmine Detection Systems	Barnawi A., Kumar K., Kumar N., Thakur N., Alzahrani B., Almansour A.	Barnawi, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Kumar, K., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Kumar, N., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Thakur, N., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, 147004, India; Alzahrani, B., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Almansour, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia	Sensors	2023	14248220
6629	The dynamics, stability and modulation instability of Gaussian beams in nonlocal nonlinear media	Mishra M., Meena K., Yadav D., Singh B., Jana S.	Mishra, M., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Meena, K., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Yadav, D., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Singh, B., Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan, Sikar, 332311, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	European Physical Journal B	2023	14346028
6630	Conspicuous role of the neck-length parameter for future superheavy element discoveries	Chopra S., Hess P.O., Sharma M.K.	Chopra, S., Frankfurt Institute for Advanced Studies (FIAS), Frankfurt am Main, D-60438, Germany; Hess, P.O., Institute fur Theoretische Physik, Goethe Universitat, Frankfurt am Main, D-60438, Germany, Instituto de Ciencias Nucleares, UNAM, Mexico City, 04510, Mexico; Sharma, M.K., School of Physics and Material Science, Thapar University, Patiala, 147004, India	Physical Review C	2023	24699985
6631	Role of a Unitized Regenerative Fuel Cell in Remote Area Power Supply: A Review	Singla M.K., Gupta J., Nijhawan P., Oberoi A.S., Alsharif M.H., Jahid A.	Singla, M.K., Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Rajpura, 140401, India; Gupta, J., Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Gurugram, 122505, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Alsharif, M.H., Department of Electrical Engineering, College of Electronics and Information Engineering, Sejong University, 209 Neungdong-ro, Gwangjin-gu, Seoul, 05006, South Korea; Jahid, A., School of Electrical Engineering and Computer Science, University of Ottawa, 25 Templeton St, Ottawa, ON K1N 6N5, Canada	Energies	2023	19961073
6632	Elucidating the zinc-binding proteome of Fusarium oxysporum f. sp. lycopersici with particular emphasis on zinc-binding effector proteins	Kushwah A.S., Dixit H., Upadhyay V., Yadav S., Verma S.K., Prasad R.	Kushwah, A.S., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India; Dixit, H., Centre for Computational Biology & Bioinformatics, Central University of Himachal Pradesh, Himachal Pradesh, Kangra, 176206, India; Upadhyay, V., Centre for Computational Biology & Bioinformatics, Central University of Himachal Pradesh, Himachal Pradesh, Kangra, 176206, India; Yadav, S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Verma, S.K., Centre for Computational Biology & Bioinformatics, Central University of Himachal Pradesh, Himachal Pradesh, Kangra, 176206, India, Department of Environmental Studies, University of Delhi, Delhi, New Delhi, 110007, India; Prasad, R., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, 247667, India	Archives of Microbiology	2023	3028933

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6633	Optimizing leachate treatment with titanium oxide-impregnated activated carbon (TiO ₂ @ASC) in a fixed-bed column: characterization, modeling, and prediction study	Singh K., Lohchab R.K., Aguedal H., Goel G., Kataria N.	Singh, K., Department of Civil Engineering, MM Engineering College, Maharishi Markandeshwar (Deemed to Be University), Haryana, Mullana-Ambala, 133207, India, Department of Environmental Science & Engineering, Guru Jambheshwar University of Science and Technology, Haryana, Hisar, 25001, India; Lohchab, R.K., Department of Environmental Science & Engineering, Guru Jambheshwar University of Science and Technology, Haryana, Hisar, 25001, India; Aguedal, H., Laboratory of Saharan Natural Resources, Faculty of Sciences and Technology, University of Ahmed Draia Adrar, Adrar, Algeria, Higher School of Saharan Agriculture, Adrar, Algeria; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Aerospace, Transport and Manufacturing, Cranfield University, Cranfield, MK430AL, United Kingdom; Kataria, N., Department of Environmental Sciences, J. C. Bose University of Science and Technology, YMCA, Haryana, Faridabad, 121006, India	Environmental Science and Pollution Research	2023	9441344
6634	Leveraging ultrasonic actuation during inclined orthopaedic bone drilling: An experimental and histological study	Agarwal R., Gupta V., Singh J.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Applied Acoustics	2023	0003682X
6635	Development of a real-time eye movement-based computer interface for communication with improved accuracy for disabled people under natural head movements	Chhimpa G.R., Kumar A., Garhwal S., Dhiraj	Chhimpa, G.R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Garhwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Dhiraj, CSIR-Central Electronics Engineering Research Institute, Rajasthan, Pilani, India	Journal of Real-Time Image Processing	2023	18618200
6636	Promising drought and salinity tolerance features of <i>Nigrospora</i> species existing as endophytes in <i>Oryza sativa</i>	Sodhi G.K., Saxena S.	Sodhi, G.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	3 Biotech	2023	2190572X
6637	A New Generalized Approach for the Realization of Meminductor Emulator and Its Application	Goel A., Rai S.K., Aggarwal B.	Goel, A., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Aggarwal, B., ECED, Netaji Subhas University of Technology, New Delhi, Delhi, India	Wireless Personal Communications	2023	9296212
6638	A Fractional-Order Meminductor Emulator Using OTA and CDBA with Application in Adaptive Learning Circuit	Gupta A., Rai S.K., Gupta M.	Gupta, A., ECED, Netaji Subhas University of Technology, Delhi, New Delhi, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, M., ECED, Netaji Subhas University of Technology, Delhi, New Delhi, India	Wireless Personal Communications	2023	9296212
6639	An approach to multi-attribute decision making based on intuitionistic fuzzy rough Aczel-Alsina aggregation operators	Hussain A., Wang H., Garg H., Ullah K.	Hussain, A., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Wang, H., School of Economics and Management, Nanchang Hongkong University, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq; Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan	Journal of King Saud University - Science	2023	10183647
6640	Sustainably produced concrete using weathered Linz-Donawitz slag as a fine aggregate Substitute: A comprehensive study with Artificial intelligence approach	Singh P., Singh H., Danie Roy A.B.	Singh, P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Danie Roy, A.B., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Structures	2023	23520124
6641	Closed-form Analysis of RZF in Multicell Massive MIMO Over Correlated Rician Channel	Kaur H., Kansal A.	Kaur, H., Electronics & Communication Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kansal, A., Electronics & Communication Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Wireless Personal Communications	2023	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6642	Potassium hexacyanoferrate(III): A promising additive for perovskite precursors in carbon-based perovskite solar cells	kumar A., Sayyed M.I., Sabugaa M.M., Seemaladinne R., Gavilán J.C.O., Singh P., Sharma A., Kumar T.C.A.	kumar, A., Solar Lab, GLA University, Mathura, 281406, India; Sayyed, M.I., Department of Physics, Faculty of Science, Isra University, Amman, 11622, Jordan, Department of Nuclear Medicine Research, Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman bin Faisal University (IAU), PO Box 1982, Dammam, 31441, Saudi Arabia; Sabugaa, M.M., Department of Electronics Engineering, Agusan del Sur State College of Agriculture and Technology, Philippines; Seemaladinne, R., Department of Chemistry and Bio Chemistry, Lamar University, Beaumont, TX 77705, United States; Gavilán, J.C.O., Universidad Privada del Norte, Lima, Peru; Singh, P., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Department of Applied Sciences, Bharati Vidyapeeth's College of Engineering, A4, Paschim Vihar, New Delhi, 110063, India; Kumar, T.C.A., Department of Mechanical Engineering, Vignan's Foundation for Science Technology and Research, Vadlamudi, Guntur Dt., Andhra Pradesh 522213, India	Optical Materials	2023	9253467
6643	An efficient fragile watermarking scheme for tamper localization in satellite images	Shivani S., Sharma S., Saxena N.	Shivani, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Computers and Electrical Engineering	2023	457906
6644	Prediction of agricultural water deficiency and its management using long-term rainfall trends	Gorai S., Ratha D., Dhir A.	Gorai, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Sustainable Water Resources Management	2023	23635037
6645	Array configured chipless RFID tag with enhanced read range	Kaur M., Agarwal M., Khanna R.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	AEU - International Journal of Electronics and Communications	2023	14348411
6646	Probabilistic assessment of seismically triggered landslide hazard for Uttarakhand (India) in the Western Himalayas	Gupta K., Satyam N., Gupta V.	Gupta, K., Department of Civil Engineering, Indian Institute of Technology Indore, Madhya Pradesh, Indore, 453552, India; Satyam, N., Department of Civil Engineering, Indian Institute of Technology Indore, Madhya Pradesh, Indore, 453552, India; Gupta, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Natural Hazards	2023	0921030X
6647	An input signal dependent 8-to-12 bit variable resolution SAR ADC with digitally implemented bit enhancement Logic	Kandpal N., Singh A., Agarwal A.	Kandpal, N., Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Singh, A., Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Agarwal, A., Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India	AEU - International Journal of Electronics and Communications	2023	14348411
6648	An industrial disaster emergency decision-making based on China's Tianjin city port explosion under complex probabilistic hesitant fuzzy soft environment	Ashraf S., Garg H., Kousar M.	Ashraf, S., Institute of Mathematics, Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, 64200, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Kousar, M., Institute of Mathematics, Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, 64200, Pakistan	Engineering Applications of Artificial Intelligence	2023	9521976
6649	Development of an intelligent full-field polarization sensitive optical coherence tomography for breast cancer classification	Basu S., Agarwal R., Srivastava V.	Basu, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Srivastava, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Biophotonics	2023	1864063X
6650	Perspective on pulse compression favorable infrared imaging techniques for non-destructive testing and evaluation of solids	Arora V., Mulaveesala R., Dua G.	Arora, V., InfraRed Vision & Automation Pvt. Ltd, Ward No. 8 Punjab, Rupnagar, 140001, India, Indian Institute of Information Technology Una, Permanent Campus, Vill. Saloh, Teh. Haroli, Distt. Himachal Pradesh, Una, 177209, India; Mulaveesala, R., InfraRed Imaging Laboratory (IRIL), Centre for Sensors, Instrumentation and cyber-physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Bhadsan Rd, Adarsh Nagar, Prem Nagar Punjab, Patiala, 147004, India	Measurement Science and Technology	2023	9570233
6651	Durability assessment of sustainable metakaolin based high strength concrete incorporating crumb tire rubber	Sidhu A.S., Siddique R.	Sidhu, A.S., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India	Journal of Building Engineering	2023	23527102

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6652	Region coverage-aware path planning for unmanned aerial vehicles: A systematic review	Kumar K., Kumar N.	Kumar, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of CSED, Chandigarh University, Gharuan, Punjab, Mohali, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	Physical Communication	2023	18744907
6653	Comparative qualitative analysis and numerical solution of conformable fractional derivative generalized KdV-mKdV equation	Kumar R., Dharra R., Kumar S.	Kumar, R., Department of Mathematics, Maharishi Markandeshwar (Deemed to be University), Mullana, Haryana, Ambala, 133001, India; Dharra, R., Department of Mathematics, Maharishi Markandeshwar (Deemed to be University), Mullana, Haryana, Ambala, 133001, India; Kumar, S., Department of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	International Journal of System Assurance Engineering and Management	2023	9756809
6654	Design of a compact metamaterial absorber with wide angular stability and polarisation insensitive for C, X and broad Ku band applications	Puri V., Singh H.S.	Puri, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Electronics and Communication Engineering, SoET, Baba Ghulam Shah Badshah University, J and K, Rajouri, 185234, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India	Frequenz	2023	161136
6655	Detecting impersonation episode using teaching learning-based optimization and support vector machine techniques	Shukla A.K.	Shukla, A.K., Thapar Institute of Engineering and Technology, Patiala, India	Expert Systems	2023	2664720
6656	Intelligent and Robust UAV-Aided Multiuser RIS Communication Technique with Jittering UAV and Imperfect Hardware Constraints	Adam A.B.M., Wan X., Elhassan M.A.M., Muthanna M.S.A., Muthanna A., Kumar N., Guizani M.	Adam, A.B.M., Chongqing University of Posts and Telecommunications, School of Communications and Information Engineering, Chongqing, 400065, China; Wan, X., Chongqing University of Posts and Telecommunications, School of Communications and Information Engineering, Chongqing, 400065, China; Elhassan, M.A.M., Xiamen University, School of Informatics, Xiamen, 361005, China; Muthanna, M.S.A., Southern Federal University, Institute of Computer Technologies and Information Security, Taganrog, 347922, Russian Federation; Muthanna, A., Peoples' Friendship University of Russia, Moscow, 117198, Russian Federation; Kumar, N., School of Computer Science Engineering, Thapar University, Patiala, 147004, India, University of Petroleum and Energy Studies, Dehradun, 248001, India, Department of Computer Science and Information Engineering, Asia University, Taiwan, King AbdulAziz University, Jeddah, 21589, Saudi Arabia, Lebanese American University, Department of Computer Science and Electrical Engineering, Beirut, Lebanon, Chandigarh University, Department of Computer Science and Engineering, Mohali, India; Guizani, M., Mohamed Bin Zayed University of Artificial Intelligence, Masdar City, 108100, United Arab Emirates	IEEE Transactions on Vehicular Technology	2023	189545
6657	When content-centric networking meets multi-criteria group decision-making: Optimal cache placement policy achieved by MARCOS with q-rung orthopair fuzzy set pair analysis	Peng X., Garg H., Luo Z.	Peng, X., School of Information Engineering, Shaoguan University, Shaoguan, 512005, China, College of Computer, National University of Defense Technology, Changsha, 410073, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq; Luo, Z., College of Computer, National University of Defense Technology, Changsha, 410073, China	Engineering Applications of Artificial Intelligence	2023	9521976
6658	An integrated SWARA-CODAS decision-making algorithm with spherical fuzzy information for clean energy barriers evaluation	Jafarzadeh Ghouschi S., Garg H., Rahnamay Bonab S., Rahimi A.	Jafarzadeh Ghouschi, S., Faculty of Industrial Engineering, Urmia University of Technology, Urmia, Iran; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq; Rahnamay Bonab, S., Faculty of Industrial Engineering, Urmia University of Technology, Urmia, Iran; Rahimi, A., Faculty of Industrial Engineering, Urmia University of Technology, Urmia, Iran	Expert Systems with Applications	2023	9574174
6659	A logistic binary Jaya optimization-based channel selection scheme for motor-imagery classification in brain-computer interface	Tiwari A.	Tiwari, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, India	Expert Systems with Applications	2023	9574174
6660	Structure optimization: Configuring optimum performance of randomly distributed mixed carbon nanotube bundle interconnects	Sharma R., Rai M.K., Khanna R.	Sharma, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Circuit Theory and Applications	2023	989886

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6661	Modeling the influence of vaccination coverage on the dynamics of COVID-19 pandemic with the effect of environmental contamination	Kumar Rai R., Kumar Tiwari P., Khajanchi S.	Kumar Rai, R., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar Tiwari, P., Department of Basic Science and Humanities, Indian Institute of Information Technology, Bhagalpur, 813210, India; Khajanchi, S., Department of Mathematics, Presidency University, 86/1 College Street, Kolkata, 700073, India	Mathematical Methods in the Applied Sciences	2023	1704214
6662	A modified Chebyshev–Halley-type iterative family with memory for solving nonlinear equations and its stability analysis	Sharma H., Kansal M.	Sharma, H., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Mathematical Methods in the Applied Sciences	2023	1704214
6663	Response of a Small-Scale Retaining Wall-Backfill System Subjected to Amplified Motion Using Shake Table	Kumar A., Parihar A.	Kumar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Parihar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Iranian Journal of Science and Technology - Transactions of Civil Engineering	2023	22286160
6664	Artificial Intelligence in Paediatric Tuberculosis	Naidoo J., Shelmerdine S.C., Ugas-Charcape C.F., Sodhi A.S.	Naidoo, J., Envisionit Deep AI LTD, Coveham House, Downside Bridge Road, Cobham, KT11 3 EP, United Kingdom; Shelmerdine, S.C., Department of Clinical Radiology, Great Ormond Street Hospital for Children NHS Foundation Trust, London, United Kingdom, Great Ormond Street Hospital for Children, UCL Great Ormond Street Institute of Child Health, London, United Kingdom, NIHR Great Ormond Street Hospital Biomedical Research Centre, London, United Kingdom; Ugas-Charcape, C.F., Department of Diagnostic Imaging, Instituto Nacional de Salud del Niño San Borja, Lima, Peru; Sodhi, A.S., Department of Computer Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Pediatric Radiology	2023	3010449
6665	A new approach to investigate the effects of artificial neural networks based on bipolar complex spherical fuzzy information	Gwak J., Garg H., Jan N., Akram B.	Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of AI Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of IT and Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Jan, N., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea; Akram, B., Department of Mathematics, Gomal University, Dera Ismail Khan, Pakistan	Complex and Intelligent Systems	2023	21994536
6666	An integrated group decision-making method for the evaluation of hypertension follow-up systems using interval-valued q-rung orthopair fuzzy sets	Wan B., Hu Z., Garg H., Cheng Y., Han M.	Wan, B., Shenzhen Research Institute, Jiangxi University of Finance and Economics, Shenzhen, 518000, China, School of Software and IoT Engineering, Jiangxi University of Finance and Economics, Nanchang, 330013, China; Hu, Z., Shenzhen Research Institute, Jiangxi University of Finance and Economics, Shenzhen, 518000, China, School of Software and IoT Engineering, Jiangxi University of Finance and Economics, Nanchang, 330013, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Cheng, Y., Shenzhen Research Institute, Jiangxi University of Finance and Economics, Shenzhen, 518000, China; Han, M., School of Information and Engineering, Dalarna University, Falun, 79188, Sweden	Complex and Intelligent Systems	2023	21994536
6667	A review of redundancy allocation problem for two decades: bibliometrics and future directions	Devi S., Garg H., Garg D.	Devi, S., School of Engineering and Sciences, GD Goenka University, Gurugram, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Garg, D., School of Engineering and Sciences, GD Goenka University, Gurugram, India	Artificial Intelligence Review	2023	2692821
6668	Extracting Radiomic features from pre-operative and segmented MRI scans improved survival prognosis of glioblastoma Multiforme patients through machine learning: a retrospective study	Kaur G., Rana P.S., Arora V.	Kaur, G., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6669	Roles of Polyamines in Growth and Development of the Solanaceous Crops Under Normal and Stressful Conditions	Kaur Y., Das N.	Kaur, Y., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Plant Growth Regulation	2023	7217595

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6670	An Efficient Approach for Accident Severity Classification in Smart Transportation System	Kaur R., Roul R.K., Batra S.	Kaur, R., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Arabian Journal for Science and Engineering	2023	2193567X
6671	Multi-attribute decision making for power Dombi operators under Pythagorean fuzzy information with MABAC method	Jana C., Garg H., Pal M.	Jana, C., Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore, 721102, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Pal, M., Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore, 721102, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6672	Computational analysis of bidirectional carbon fibre/epoxy nanocomposites using different failure criteria	Kumar M., Saini J.S.	Kumar, M., Mechanical Engineering Department, Chandigarh University, Punjab, Mohali, India; Saini, J.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
6673	Effect of tool pin profiles on the properties of foamable precursor developed by friction stir processing	Kumar M., Singh R.K.R., Jain V.	Kumar, M., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singh, R.K.R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
6674	An enhanced reversible data hiding algorithm using deep neural network for E-healthcare	Bhardwaj R., Tripathi I.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Tripathi, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6675	Hybrid Nature-Inspired Optimization and Encryption-Based Watermarking for E-Healthcare	Anand A., Singh A.K.	Anand, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Singh, A.K., National Institute of Technology Patna, Department of Computer Science and Engineering, Bihar, Patna, 800005, India	IEEE Transactions on Computational Social Systems	2023	2329924X
6676	MRI de-noising using improved unbiased NLM filter	Sahu S., Anand A., Singh A.K., Agrawal A.K., Singh M.P.	Sahu, S., Department of ECE, Malla Reddy Engineering College (Autonomous), Maisammaguda, Telangana, Hyderabad, India; Anand, A., Department of CSE, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, A.K., Department of Computer Science and Engineering, NIT Patna, Patna, India; Agrawal, A.K., Department of CSE, Galgotias College of Engineering and Technology, Greater Noida, India; Singh, M.P., Department of Computer Science and Engineering, NIT Patna, Patna, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6677	Isolated word language identification system with hybrid features from a deep belief network	Sangwan P., Deshwal D., Kumar D., Bhardwaj S.	Sangwan, P., Department of ECE, Maharaja Surajmal Institute of Technology, New Delhi, India; Deshwal, D., Department of ECE, Maharaja Surajmal Institute of Technology, New Delhi, India, Department of ECE, IFTM University, Uttar Pradesh, Moradabad, India; Kumar, D., Department of ECE, IFTM University, Uttar Pradesh, Moradabad, India; Bhardwaj, S., Department of EIE, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, The Bradley Department of Electrical and Computer engineering, Virginia Tech, Blacksburg, VA, United States	International Journal of Communication Systems	2023	10745351
6678	Absorption dominant electromagnetic interference shielding in the novel polypyrrole-CaCu ₃ Ti ₄ O ₁₂ -CoFe ₂ O ₄ nanocomposites	Dhugga L.K., Baskey H.B., Gaur K.K., Singh D.P.	Dhugga, L.K., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Baskey, H.B., Special Materials Group, DMSRDE (DRDO Lab) Kanpur208013, India; Gaur, K.K., Defence Research Development Organization, Complex Lucknow Road, Delhi, Timarpur, 110054, India; Singh, D.P., School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Composites Science and Technology	2023	2663538
6679	Treatment of Leftover Kitchen Waste Mixed with Different Waste in A Single Phase Anaerobic Batch Process	Dhamodharan K., Kalamdhad A.S., Singh K.R.	Dhamodharan, K., Department of Civil Engineering, Indian Institute of Technology, Guwahati, 781039, India, School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kalamdhad, A.S., Department of Civil Engineering, Indian Institute of Technology, Guwahati, 781039, India; Singh, K.R., Department of Civil Engineering, GLA University, Mathura, 281406, India	AIP Conference Proceedings	2023	0094243X
6680	Insights into the Interaction Mechanism of Boceprevir with SARS-CoV-2 Main Protease	Kaur G., Goyal B.	Kaur, G., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	ChemistrySelect	2023	23656549

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6681	Multiepitope glycan based laser assisted fluorescent nanocomposite with dual functionality for sensing and ablation of Pseudomonas aeruginosa	Garg P., Priyadarshi N., Ambule M.D., Kaur G., Kaul S., Gupta R., Sagar P., Bajaj G., Yadav B., Rishi V., Goyal B., Srivastava A.K., Singhal N.K.	Garg, P., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India, Department of Biotechnology, Panjab University, Sector 25, Chandigarh, 160014, India; Priyadarshi, N., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India; Ambule, M.D., Medicinal & Process Chemistry Division, CSIR-Central Drug Research Institute, Lucknow, 226031, India, Academy of Scientific and Innovative Research, Ghaziabad, 201002, India; Kaur, G., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaul, S., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India, Department of Biotechnology, Panjab University, Sector 25, Chandigarh, 160014, India; Gupta, R., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India; Sagar, P., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India; Bajaj, G., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India, Department of Biotechnology, Panjab University, Sector 25, Chandigarh, 160014, India; Yadav, B., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India, Regional Center for Biotechnology (RCB), Faridabad, 121001, India; Rishi, V., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Srivastava, A.K., Medicinal & Process Chemistry Division, CSIR-Central Drug Research Institute, Lucknow, 226031, India, Academy of Scientific and Innovative Research, Ghaziabad, 201002, India; Singhal, N.K., National Agri-Food Biotechnology Institute (NABI), Sector-81, S.A.S. Nagar, Punjab, Mohali, India	Nanoscale	2023	20403364
6682	Unsupervised classification for uncertain varying responses: The wisdom-in-the-crowd (WICRO) algorithm	Ratner N., Kagan E., Kumar P., Ben-Gal I.	Ratner, N., Department of Industrial Engineering, Tel-Aviv University, Ramat-Aviv, Tel-Aviv, 69978, Israel; Kagan, E., Department of Industrial Engineering and Management, Faculty of Engineering, Ariel University, Ariel, 40700, Israel; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ben-Gal, I., Department of Industrial Engineering, Tel-Aviv University, Ramat-Aviv, Tel-Aviv, 69978, Israel	Knowledge-Based Systems	2023	9507051
6683	DNA damage and intercalation by elinafide modified bis-naphthalimides for their anticancer activity	Gupta S., Paul K.	Gupta, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Journal of Molecular Liquids	2023	1677322
6684	Improved cosine similarity and distance measures-based TOPSIS method for cubic Fermatean fuzzy sets	Rahim M., Garg H., Amin F., Perez-Dominguez L., Alkhayyat A.	Rahim, M., Department of Mathematics and Statistics, Hazara University, KP, Mansehra, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India; Amin, F., Department of Mathematics and Statistics, Hazara University, KP, Mansehra, Pakistan; Perez-Dominguez, L., Departamento de ingeniería industrial, Universidad Autónoma de Ciudad Juárez; Alkhayyat, A., Qaulity Assurance Department, The Islamic University, Najaf, Iraq	Alexandria Engineering Journal	2023	11100168
6685	Synthesis of biogenic calcium silicate glasses from biomass: Physical, dielectric and electrical properties	Sharma G., Sharma D., Singh K., Jha P., Bansal N., Mishra Y.K., Singh K., Sharma A., Sharma S.K.	Sharma, G., Nanoscale Research Facility, IIT Delhi, New Delhi, Hauz Khas, 110016, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Biomaterials and Sensor Laboratory, Department of Physics, Ch. Charan Singh University, Meerut Campus, Uttar Pradesh, Meerut, 245004, India; Sharma, D., Department of Physics, IIT Delhi, New Delhi, Hauz Khas, 110016, India; Singh, K., Department of Biophysics and Cell Biology, Faculty of Medicine & Doctoral School of Molecular Cellular and Immune Biology, University of Debrecen, Debrecen, 4032, Hungary; Jha, P., State Forensic Science Laboratory, Madhya Pradesh, Sagar, 470001, India; Bansal, N., Amity School of Physical Sciences, Amity University, Punjab, Mohali, India; Mishra, Y.K., Mads Clausen Institute, NanoSYD, University of Southern Denmark, Sønderborg, Denmark; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, A., Biomaterials and Sensor Laboratory, Department of Physics, Ch. Charan Singh University, Meerut Campus, Uttar Pradesh, Meerut, 245004, India; Sharma, S.K., Biomaterials and Sensor Laboratory, Department of Physics, Ch. Charan Singh University, Meerut Campus, Uttar Pradesh, Meerut, 245004, India	Journal of Non-Crystalline Solids	2023	223093
6686	Investigation of tribological and metallurgical effects on Ti-6Al-4V laminates made by LSEM for Ti/GFRP stacked composite	Kumar P., Joshi R.S., Singla R.K.	Kumar, P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Joshi, R.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Wear	2023	431648

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6687	Bioresource-Based Graphene Quantum Dots and Their Applications: A Review	Sohal N., Singla S., Malode S.J., Basu S., Maity B., Shetti N.P.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malode, S.J., Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Karnataka, Hubballi, 580031, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., Center for Energy and Environment, School of Advanced Sciences, KLE Technological University, Karnataka, Hubballi, 580031, India, University Center for Research & Development (UCRD), Chandigarh University, Panjab, Mohali, 140413, India	ACS Applied Nano Materials	2023	25740970
6688	Insulin-cobalt core-shell nanoparticles for receptor-targeted bioimaging and diabetic wound healing	Sharda D., Choudhury D.	Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech (USA) Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	RSC Advances	2023	20462069
6689	Scientific Python (SciPy) based Simulation and Control of Underactuated Robotic System	Mavi H.S., Mallick R., Singla A.	Mavi, H.S., Department of Mechanical Engineering, Tiet, Patiala, India; Mallick, R., Department of Mechanical Engineering, Tiet, Patiala, India; Singla, A., Department of Mechanical Engineering, Tiet, Patiala, India	ACM International Conference Proceeding Series	2023	
6690	Joint Space Trajectory Controller for Modular Reconfigurable Manipulator	Patel S.M., Singla E., Singla A.	Patel, S.M., Department of Mechanical Engineering, Iit, Ropar, 60103918, India; Singla, E., Department of Mechanical Engineering, Iit, Ropar, 60103918, India; Singla, A., Thapar Institute of Engineering and Technology, Patiala, India	ACM International Conference Proceeding Series	2023	
6691	Towards Trajectory Tracking Control of a Flexible Tube Manipulator	Bhatt N., Singla A., Soni S.	Bhatt, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Soni, S., Biomedical Applications Group, CSIR-Central Scientific Instruments Organization, Chandigarh, 160030, India	ACM International Conference Proceeding Series	2023	
6692	Vibration suppression during trajectory tracking of a PRR manipulator	Kumar S., Saha S.K., Singla A., Singh S.P., Bera T.K.	Kumar, S., Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India; Saha, S.K., Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India; Singla, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S.P., Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India; Bera, T.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	ACM International Conference Proceeding Series	2023	
6693	Estimation of Ground Reaction Force for Coupled Dynamic Modelling and Control of the Lower Limb Exoskeleton	Chander S.A., Mukherjee A., Singla A.	Chander, S.A., Academy of Scientific and Innovative Research (AcSIR), CSIR-CSIO, Chandigarh, India; Mukherjee, A., Rwth Aachen University, Aachen, Germany; Singla, A., Thapar Institute of Engineering and Technology, Patiala, India	ACM International Conference Proceeding Series	2023	
6694	Bond Graph Modeling and LQR Based Neuro-Fuzzy Control of Spatial Inverted Pendulum	Chawla I., Rayankula V., Chopra V., Singla A.	Chawla, I., Department of Mechanical and Industrial Engineering, Iit Roorkee, Roorkee, India; Rayankula, V., Department of Mechanical Engineering, Srkr Engineering College, Bhimavaram, India; Chopra, V., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	ACM International Conference Proceeding Series	2023	
6695	Data wrangling dynamics	Kaur S., Bala A., Garg A.	Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bala, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Garg, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Data Wrangling: Concepts, Applications and Tools	2023	
6696	Perspective taking and mindfulness as mediators of the relationship between maladaptive narcissism and empathy	Virk P., Kumari S.	Virk, P., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, India; Kumari, S., School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology, India	Social Behavior and Personality	2023	3012212
6697	Tapping the Potential of Academic Leadership, Experiential Learning, and Employability of Students to Enhance Higher Educational Institute Performance	Pandita A., Kiran R.	Pandita, A., Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., Thapar Institute of Engineering and Technology, Patiala, India	SAGE Open	2023	21582440
6698	Placing of the recently observed bottom strange states BsJ(6063) and BsJ(6114) in bottom spectra	Garg R., Gupta P., Upadhyay A.	Garg, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, P., Mehr Chand Mahajan DAV College for Women, Chandigarh, 160036 UT, India; Upadhyay, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Progress of Theoretical and Experimental Physics	2023	20503911

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6699	A Prominent Streptomyces sp. Biomass-Based Biosorption of Zinc (II) and Lead (II) from Aqueous Solutions: Isotherm and Kinetic	Kumari S., Agrawal N.K., Agarwal A., Kumar A., Malik N., Goyal D., Rajput V.D., Minkina T., Sharma P., Garg M.C.	Kumari, S., Amity Institute of Environmental Science (AIES), Amity University Uttar Pradesh, Sector-125, Noida, 201313, India; Agrawal, N.K., Department of Applied Sciences and Humanities, Moradabad Institute of Technology, Moradabad, 244001, India; Agarwal, A., Department of Applied Sciences and Humanities, Moradabad Institute of Technology, Moradabad, 244001, India; Kumar, A., Department of Zoology, Kisan (P.G) College, Hapur, C. C. S. University, Simbhaoli, Meerut, 245207, India; Malik, N., Department of Zoology, S.M. College Chandausi, Shambal, M. J. P. Rohilkhand University, Bareilly, 243632, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Rajput, V.D., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Minkina, T., Academy of Biology and Biotechnology, Southern Federal University, Rostov-on-Don, 344090, Russian Federation; Sharma, P., Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Garg, M.C., Amity Institute of Environmental Science (AIES), Amity University Uttar Pradesh, Sector-125, Noida, 201313, India, Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Separations	2023	22978739
6700	Choquet Integral-Based Aczel–Alsina Aggregation Operators for Interval-Valued Intuitionistic Fuzzy Information and Their Application to Human Activity Recognition	Garg H., Tehreem, Nguyen G.N., Alballa T., Khalifa H.A.E.-W.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam; Tehreem, Department of Mathematics, Faculty of Basic and Applied Sciences, Air University, PAF Complex E-9, Islamabad, 44000, Pakistan; Nguyen, G.N., Institute of Research and Development, Duy Tan University, Da Nang, 550000, Viet Nam, School of Computer Science, Duy Tan University, Da Nang, 550000, Viet Nam; Alballa, T., Department of Mathematics, College of Sciences, Princess Nourah bint Abdulrahman University, P.O. Box 84428, Riyadh, 11671, Saudi Arabia; Khalifa, H.A.E.-W., Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya, 51951, Saudi Arabia, Department of Operations and Management Research, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, 12613, Egypt	Symmetry	2023	20738994
6701	Quest for a universal cluster preformation formula: A new paradigm for estimating the cluster formation energy	Majekodunmi J.T., Kumar R., Bhuyan M.	Majekodunmi, J.T., Institute of Engineering Mathematics, Universiti Malaysia Perlis - Arau, Perlis, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia	EPL	2023	2955075
6702	A Cubic Class of Iterative Procedures for Finding the Generalized Inverses	Kansal M., Kaur M., Rani L., Jäntschi L.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kaur, M., Department of Mathematics, Lovely Professional University, Phagwara, 144411, India; Rani, L., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jäntschi, L., Department of Physics and Chemistry, Technical University of Cluj-Napoca, Muncii Blvd. No. 103-105, Cluj-Napoca, 400641, Romania	Mathematics	2023	22277390
6703	Smart Farming Revolution: Portable and Real-Time Soil Nitrogen and Phosphorus Monitoring for Sustainable Agriculture	Singh H., Halder N., Singh B., Singh J., Sharma S., Shacham-Diamand Y.	Singh, H., Faculty of Engineering, Tel Aviv University, Aviv, 6997801, Israel, TAU/TIET Food Security Centre of Excellence, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Halder, N., TAU/TIET Food Security Centre of Excellence, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, B., TAU/TIET Food Security Centre of Excellence, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, J., TAU/TIET Food Security Centre of Excellence, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., TAU/TIET Food Security Centre of Excellence, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shacham-Diamand, Y., Faculty of Engineering, Tel Aviv University, Aviv, 6997801, Israel, TAU/TIET Food Security Centre of Excellence, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sensors	2023	14248220
6704	Bitcoin Price Prediction Using Sentiment Analysis and Long Short-Term Memory (LSTM)	Kumar A., Srivastava V., Chaubey M.K., Sehgal M.	Kumar, A., Bharati Vidyapeeth (Deemed to be university), Institute of management and research, New Delhi, India; Srivastava, V., Computer science department, Thapar Institute of Engineering and Technology, Patiala, India; Chaubey, M.K., Bharati Vidyapeeth (Deemed to be university), Institute of management and research, New Delhi, India; Sehgal, M., Bharati Vidyapeeth (Deemed to be university), Institute of management and research, New Delhi, India	International Journal of Intelligent Systems and Applications in Engineering	2023	21476799
6705	Time-fractional (2+1)-dimensional navier-stokes equations: similarity reduction and exact solutions for one-parameter lie group of rotations	Verma P., Pandit S., Kumar M., Kumar V., Poonam P.	Verma, P., Department of Mathematics, Baba Mastnath University, Haryana, Asthal Bohar, Rohtak, 124021, India; Pandit, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, M., Department of Mathematics, Baba Mastnath University, Haryana, Asthal Bohar, Rohtak, 124021, India; Kumar, V., Department of Mathematics, D.A.V. College Pundri, Haryana, Kaithal, 136026, India; Poonam, P., Department of Mathematics, Govt. College for Women, Jassaur Kheri, Jhajjar, India	Physica Scripta	2023	318949
6706	C–H Functionalized Molecules: Synthesis, Reaction Mechanism, and Biological Activity	Tandon N., Thakur R., Tandon R., Singh I., Paul K., Ahmad Bhat A.	Tandon, N., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Thakur, R., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Tandon, R., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India; Singh, I., School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, 144411, India; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Ahmad Bhat, A., Department of Chemistry, School of Physical Sciences, Lovely Professional University, Phagwara, 144411, India	Asian Journal of Organic Chemistry	2023	21935807

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6707	Preformation probability and kinematics of cluster emission yielding Pb-daughters* * Supported by the Fundamental Research Grant Scheme (FRGS/1/2019/STG02/UNIMAP/02/2) from the Ministry of Education Malaysia stipulated with the Institute of Engineering Mathematics (IMK) of the Faculty of Applied and Human Sciences UniMAP as the beholder, Science and Engineering Research Board (SERB, CRG/2021/001229), FOSTECT Project (FOSTECT.2019B.04), FAPESP Project (2017/05660-0)	Majekodunmi J.T., Bhuyan M., Anwar K., Abdullah N., Kumar R.	Majekodunmi, J.T., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Anwar, K., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Abdullah, N., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Chinese Physics C	2023	16741137
6708	Graphene oxide reinforced chitosan/polyvinyl alcohol antibacterial coatings on stainless steel surfaces exhibit superior bioactivity without human cell cytotoxicity	Dhiman N.K., Reddy M.S., Agnihotri S.	Dhiman, N.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Agnihotri, S., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management, Kundli, Haryana, Sonapat, 131028, India, Centre for Advanced Translational Research in Food Nano-Biotechnology (CATR-FNB), National Institute of Food Technology Entrepreneurship and Management, Kundli, Haryana, Sonapat, 131028, India	Colloids and Surfaces B: Biointerfaces	2023	9277765
6709	Advancement in biological and mechanical behavior of 3D printed poly lactic acid bone plates using polydopamine coating: Innovation for healthcare	Sharma S., Mudgal D., Gupta V.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of the Mechanical Behavior of Biomedical Materials	2023	17516161
6710	Discrete-Time Constrained Controller for Proportional Directional Control Valve-Based Electrohydraulic System With Parametric Uncertainty and Disturbances	Kumawat A.K., Rout R., Kumawat R., Rawat M.	Kumawat, A.K., Department of Mechatronics Engineering, Manipal University Jaipur, Rajasthan, Jaipur, 303007, India; Rout, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumawat, R., Department of Computer and Communication Engineering, Manipal University Jaipur, Rajasthan, Jaipur, 303007, India; Rawat, M., Department of Mechatronics Engineering, Manipal University Jaipur, Rajasthan, Jaipur, 303007, India	Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME	2023	220434
6711	An inventory model for partial backlogging items with memory effect	Pakhira R., Ghosh U., Garg H., Mishra V.N.	Pakhira, R., Academy of Technology, Adisaptagram, West Bengal, Hooghly, India; Ghosh, U., Department of Applied Mathematics, University of Calcutta, Kolkata, 700009, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Mishra, V.N., Department of Mathematics, Indira Gandhi National Tribal University, Madhya Pradesh, Lalpur, Amarkantak, Anuppur, India	Soft Computing	2023	14327643
6712	Electrochemical Performance of Concrete Conductive Anode Paint Used as an Impressed Current Anode Material	Goyal A., Pouya H.S., Ganjian E.	Goyal, A., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pouya, H.S., Structural Rehabilitation, Transportation UK and Europe, Atkins, Birmingham, B33AX, United Kingdom; Ganjian, E., Concrete Corrosion Tech Ltd., Humphrey Middlemore Dr., Birmingham, B170JN, United Kingdom	Journal of Materials in Civil Engineering	2023	8991561
6713	Determinants of quantification of tourism waste in the hilly terrain of Himalayas: A spatial approach	Sharma R., Kumar A.	Sharma, R., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Waste Management	2023	0956053X
6714	New Electronically Tunable Four-Quadrant Analog Multiplier Employing Single EXCCII and Its Applications	Das R., Rai S.K.	Das, R., Electronics and Communication Engineering, Asansol Engineering College, West Bengal, Asansol, India; Rai, S.K., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Wireless Personal Communications	2023	9296212

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6715	Machine Learning Based Power Efficient Optimized Communication Ensemble Model with Intelligent Fog Computing for WSNs	Jain A., Bhardwaj A.K.	Jain, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Chandigarh, India	Wireless Personal Communications	2023	9296212
6716	Endophytes: Saviour of apples from post-harvest fungal pathogens	Gupta S., Saxena S.	Gupta, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India	Biological Control	2023	10499644
6717	GA based optimized graphene antenna design for detection of explosives and drugs using THz spectroscopy	Singh G., Sandha K.S., Kansal A.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sandha, K.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Micro and Nanostructures	2023	27730123
6718	Decompositional and chemical reaction kinetics study of eggshell powder waste for value-added materials	Kaur N., Singh K.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Thermal Analysis and Calorimetry	2023	13886150
6719	An enhanced efficient optimization algorithm (EINFO) for accurate extraction of proton exchange membrane fuel cell parameters	Singla M.K., Hassan M.H., Gupta J., Jurado F., Nijhawan P., Kamel S.	Singla, M.K., Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Punjab, India; Hassan, M.H., Department of Electrical Engineering, Faculty of Engineering, Aswan University, Aswan, 81542, Egypt; Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jurado, F., Department of Electrical Engineering, University of Jaén, 23700 EPS Linares, Jaén, Spain; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kamel, S., Department of Electrical Engineering, Faculty of Engineering, Aswan University, Aswan, 81542, Egypt	Soft Computing	2023	14327643
6720	Investigation of Robotics Technology Based on Bipolar Complex Intuitionistic Fuzzy Soft Relation	Gwak J., Garg H., Jan N.	Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of AI Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of IT & Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Jan, N., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea	International Journal of Fuzzy Systems	2023	15622479
6721	A Comprehensive Review of Computational Desmoggling Techniques	Juneja A., Kumar V., Singla S.K.	Juneja, A.; Kumar, V., Department of Information Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Jalandhar, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Archives of Computational Methods in Engineering	2023	11343060
6722	A modified U-net-based architecture for segmentation of satellite images on a novel dataset	Maurya A., Akashdeep, Mittal P., Kumar R.	Maurya, A., M.E Research Scholar UIET, Panjab University, Chandigarh, India; Akashdeep, CSE UIET, Panjab University, Chandigarh, India; Mittal, P., CSIED TIET, Patiala, India; Kumar, R., CSE, UIET, Panjab University, Chandigarh, India	Ecological Informatics	2023	15749541
6723	Investigations on corrosion inhibition performance of self-healing nano-clay modified epoxy coatings	Sharma N., Sharma S., Sharma S.K., Mahajan R.L., Mehta R.	Sharma, N., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S.K., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mahajan, R.L., Department of Mechanical Engineering, Virginia Tech, Blacksburg, United States, TIET-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Building Engineering	2023	23527102
6724	A double boost 9-level switched capacitor-based multilevel inverter for photovoltaic applications	Agarwal R., Gupta K.K., Singh S.	Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2023	989886
6725	Exploring different computational methods for the High-Frequency band of HRV to capture information related to RSA	Narang M., Singh M.	Narang, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Biomedical Signal Processing and Control	2023	17468094

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6726	Sine augmented scaled arithmetic optimization algorithm for frequency regulation of a virtual inertia control based microgrid	Khadanga R.K., Das D., Kumar A., Panda S.	Khadanga, R.K., Department of Electrical and Electronics Engineering, Centurion University of Technology and Management, Odisha, Bhubaneswar, 761008, India; Das, D., Department of Electrical Engineering, Government College of Engineering, Odisha, Kalahandi, 766002, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Panda, S., Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, Burla, 768018, India	ISA Transactions	2023	190578
6727	Segmentation of retinal blood vessels by a novel hybrid technique-Principal Component Analysis (PCA) and Contrast Limited Adaptive Histogram Equalization (CLAHE)	Sidhu R.K., Sachdeva J., Katoch D.	Sidhu, R.K., Department of Electronics and Communication Engineering, Chandigarh University, Mohali, India; Sachdeva, J., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Katoch, D., Department of Ophthalmology, Advanced Eye Centre, PGIMER, Chandigarh, India	Microvascular Research	2023	262862
6728	E-CNNNet: Time-reassigned Multisynchrosqueezing transform-based deep learning framework for MI-BCI task classification	Kaur M., Upadhyay R., Kumar V.	Kaur, M., Department of Electronics and Communication, Thapar Institute of Engineering & Technology, Patiala, India; Upadhyay, R., Department of Electronics and Communication, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, V., Department of Electronics and Communication, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Imaging Systems and Technology	2023	8999457
6729	Adaptive Radii selection based inpainting method for impulse noise removal	Mukhopadhyay R., Gupta P., Satti P., Garg B.	Mukhopadhyay, R., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, P., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Satti, P., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, B., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6730	Stress recognition with multi-modal sensing using bootstrapped ensemble deep learning model	Singh G., Phukan O.C., Kumar R.	Singh, G., Department of Electronics and Communication Engineering, National Institute of Technology Kurukshetra, Kurukshetra, India; Phukan, O.C., PES University, Bengaluru, India; Kumar, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Expert Systems	2023	2664720
6731	A multimodal facial cues based engagement detection system in e-learning context using deep learning approach	Gupta S., Kumar P., Tekchandani R.	Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Multimedia Tools and Applications	2023	13807501
6732	Classifying the heart sound signals using textural-based features for an efficient decision support system	Taneja K., Arora V., Verma K.	Taneja, K., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Arora, V., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Verma, K., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Expert Systems	2023	2664720
6733	GBEAKA: Group-based efficient authentication and key agreement protocol for LPloMT using 5G	Singh G.	Singh, G., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Internet of Things (Netherlands)	2023	25426605
6734	AI-based fruit identification and quality detection system	Goyal K., Kumar P., Verma K.	Goyal, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Verma, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
6735	UrbanEnQoSPlace: A Deep Reinforcement Learning Model for Service Placement of Real-Time Smart City IoT Applications	Bansal M., Chana I., Clarke S.	Bansal, M., Thapar Institute of Engineering and Technology (Deemed University), Computer Science and Engineering Department, Punjab, Patiala, 147004, India; Chana, I., Thapar Institute of Engineering and Technology (Deemed University), Computer Science and Engineering Department, Punjab, Patiala, 147004, India; Clarke, S., Trinity College Dublin, Dublin, D02 PN40, Ireland	IEEE Transactions on Services Computing	2023	19391374
6736	Influence of discontinuities on the fracture behaviour of CNT reinforced composites subjected to thermo-mechanical load using XIGA	Yadav A., Bhardwaj G., Godara R.K.	Yadav, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Godara, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Strain Analysis for Engineering Design	2023	3093247
6737	Efficacy of polymeric nanofibrous membranes for proficient wastewater treatment	Kumar S., Shandilya M., Uniyal P., Thakur S., Parihar N.	Kumar, S., School of Physics and Materials Science, Shoolini University, H.P., Solan, 173229, India; Shandilya, M., School of Physics and Materials Science, Shoolini University, H.P., Solan, 173229, India; Uniyal, P., Smart Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Thakur, S., Department of Biotechnology, Eternal University, Baru Sahib, 173101, India; Parihar, N., School of Biological Engineering and Sciences, Shobhit University Gangoh, U.P., Saharanpur, India	Polymer Bulletin	2023	1700839

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6738	Proposition of new ensemble data-intelligence model for evapotranspiration process simulation	Saggi M.K., Jain S., Bhatia A.S., Sharda R.	Saggi, M.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, A.S., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India; Sharda, R., Department of Soil and Water Engineering, Punjab Agricultural University, Punjab, Ludhiana, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6739	Impact of pandemic on development and demography in different continents and nations	Singh P.K., Pandey A.K., Kiran R., Bhatt R.K., Chouhan A.	Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Pandey, A.K., Centre for Integrated Rural Development, Banaras Hindu University, Varanasi, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Bhatt, R.K., Department of Economics, Banaras Hindu University, Varanasi, India; Chouhan, A., Department of Economics, Banaras Hindu University, Varanasi, India	International Journal of Finance and Economics	2023	10769307
6740	Unveiling How Hydroxytyrosol Destabilizes α -Syn Oligomers Using Molecular Simulations	Kaur G., Mankoo O.K., Goyal D., Goyal B.	Kaur, G., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Mankoo, O.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Goyal, D., Department of Chemistry, DAV College, Sector 10, Chandigarh, 160011, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physical Chemistry B	2023	15206106
6741	Exploring the corrosion inhibition mechanism of Serine (Ser) and Cysteine (Cys) in alkaline concrete pore solution simulating carbonated environment	Purnima, Goyal S., Luxami V.	Purnima, Research Scholar, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, S., Professor, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Luxami, V., Professor, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Construction and Building Materials	2023	9500618
6742	Legendre neural network method for solving nonlinear singular systems	Veerasamy M., Jaganathan S.C.B., Dhasarathan C., Mubarakali A., Ramasamy V., Kalpana R., Marina N.	Veerasamy, M., Department of CSE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, India; Jaganathan, S.C.B., School of Computing Science and Engineering, VIT Bhopal University, Sehore, MP, India; Dhasarathan, C., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Mubarakali, A., College of Computer Science, King Khalid University, Abha, Saudi Arabia; Ramasamy, V., Computer Science and Engineering Department, Adithya Institute of Technology, Kurumbapalayam, Coimbatore, Tamil Nadu, India; Kalpana, R., Madanapalle Institute of Technology and Science, Angallu, Andhra Pradesh, India; Marina, N., University of Information Science and Technology St. Paul the Apostle, Ohrid, North Macedonia	Intelligent Technologies for Sensors: Applications, Design, and Optimization for a Smart World	2023	
6743	The future of web crowdfunding: An ethereum blockchain approach	Jaganathan S.C.B., Veerasamy M., Mubarakali A., Dhasarathan C., Ramasamy V., Kalpana R., Marina N.	Jaganathan, S.C.B., School of Computing Science and Engineering, VIT Bhopal University, Sehore, MP, India; Veerasamy, M., Department of CSE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, India; Mubarakali, A., College of Computer Science, King Khalid University, Abha, Saudi Arabia; Dhasarathan, C., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Ramasamy, V., Computer Science and Engineering Department, Adithya Institute of Technology, Kurumbapalayam, Coimbatore, Tamil Nadu, India; Kalpana, R., Dept. of Computer Science and Engineering, Madanapalle Institute of Technology and Science, Angallu, Andhra Pradesh, India; Marina, N., University of Information Science and Technology St. Paul the Apostle, Ohrid, North Macedonia	Intelligent Technologies for Sensors: Applications, Design, and Optimization for a Smart World	2023	
6744	Supply chain resilience: A review, conceptual framework and future research	Shishodia A., Sharma R., Rajesh R., Munim Z.H.	Shishodia, A., Operations Management, LM Thapar School of Management, Thapar University, Patiala, India; Sharma, R., Operations Management, Jaipuria Institute of Management Noida, Noida, India, Operations and Supply Chain Management, National Institute of Industrial Engineering, Mumbai, India; Rajesh, R., Management Division, ABV Indian Institute of Information Technology and Management, Gwalior, India; Munim, Z.H., Faculty of Technology, Natural and Maritime Sciences, University of South-Eastern Norway, Kongsberg, Norway	International Journal of Logistics Management	2023	9574093
6745	Orange Pomace-Derived Fluorescent Carbon Quantum Dots: Detection of Dual Analytes in the Nanomolar Range	Kundu A., Maity B., Basu S.	Kundu, A., School of Chemistry and Biochemistry, Senior Research Fellow–TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty–TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty–TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	ACS Omega	2023	24701343
6746	An investigation on the effects of both amine grafting and blending with biodegradable chitosan membrane for CO2 capture from CO2/N2 gas mixtures	Katare A., Sharma S., Horo H., Bhowmick S., Kundu L.M., Mandal B.	Katare, A., Department of Chemical Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Sharma, S., Department of Chemical Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Horo, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhowmick, S., Department of Chemistry, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Kundu, L.M., Department of Chemistry, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Mandal, B., Department of Chemical Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India	Chemical Engineering Journal	2023	13858947

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6747	Construction of Ag deposited g-C3N4 loaded Co[sbnd]Al LDH ternary composites with aim of pharmaceutical wastewater treatment:Pathways and mechanism for ciprofloxacin degradation	Kaur H., Singh S., Pal B.	Kaur, H., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pal, B., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Applied Clay Science	2023	1691317
6748	Role of Sm2O3 on surface to bulk crystallization and thermal properties of Fe2O3-V2O5-B2O3-SiO2 glasses	Kaur J., Mattu N.K., Mudahar I., Singh K.	Kaur, J., Department of Physics, Punjabi University, Punjab, Patiala, 147002, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mattu, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mudahar, I., Department of Physics, Punjabi University, Punjab, Patiala, 147002, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Non-Crystalline Solids	2023	223093
6749	Performance of bacterial mediated mineralization in concrete under carbonation and chloride induced corrosion	Joshi S., Ahn Y.-H., Goyal S., Reddy M.S.	Joshi, S., Department of Civil Engineering, Yeungnam University, Gyeongsan, 38541, South Korea, Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Ahn, Y.-H., Department of Civil Engineering, Yeungnam University, Gyeongsan, 38541, South Korea; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Building Engineering	2023	23527102
6750	Novel MoS2/C3N5 composites with extended spectral response towards highly efficient photocatalytic abatement of hazardous pollutants	Monga D., Basu S.	Monga, D., Department of Chemistry, RIMT University, Mandi Gobindgarh147301, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Environmental Management	2023	3014797
6751	Time-of-Use tariff rates estimation for optimal demand-side management using electric vehicles	Kaur A.P., Singh M.	Kaur, A.P., Electrical and Instrumentation Engineering Department, TIET, Punjab, Patiala, 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, TIET, Punjab, Patiala, 147004, India	Energy	2023	3605442
6752	Generalized picture fuzzy distance and similarity measures on the complete lattice and their applications	Jin J., Garg H., You T.	Jin, J., College of Mathematics and Information Science, Guiyang University, Guiyang, 550005, China, School of Mathematical Sciences, Guizhou Normal University, Guiyang, 550025, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq; You, T., School of Mathematical Sciences, Guizhou Normal University, Guiyang, 550025, China	Expert Systems with Applications	2023	9574174
6753	Artificial intelligence based flexible manufacturing system (FMS)	Mishra A.	Mishra, A., Thapar Institute of Engineering and Technology, Patiala, India	Advanced Signal Processing for Industry 4.0, Volume 1: Evolution, communication protocols, and applications in manufacturing systems	2023	
6754	Applications of infrared imaging for non-destructive testing and evaluation of industrial components	Kaur N., Dua G., Mulaveesala R., Arora V.	Kaur, N., Thapar Institute of Engineering and Technology, India; Dua, G., Thapar Institute of Engineering and Technology, Adarsh Nagar, Prem Nagar, Patiala, Punjab, India; Mulaveesala, R., Centre for Sensors, Instrumentation and cyber-physical Systems Engineering (SeNSE), Indian Institute of Technology Delhi, India; Arora, V., InfraRed Vision and Automation Pvt Ltd, Punjab, India	Advanced Signal Processing for Industry 4.0, Volume 1: Evolution, communication protocols, and applications in manufacturing systems	2023	
6755	Comparison of the performances of different drying enhancers for waterborne polyvinyl alcohol films	Ahuja S.	Ahuja, S., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India	Journal of Applied Polymer Science	2023	218995
6756	EDFA: Ensemble deep CNN for assessing student's cognitive state in adaptive online learning environments	Gupta S., Kumar P., Tekchandani R.	Gupta, S., Thapar Institute of Engineering and Technology, Adarsh Nagar, Prem Nagar, Patiala, Punjab, 147004, India; Kumar, P., Thapar Institute of Engineering and Technology, Adarsh Nagar, Prem Nagar, Patiala, Punjab, 147004, India; Tekchandani, R., Thapar Institute of Engineering and Technology, Adarsh Nagar, Prem Nagar, Patiala, Punjab, 147004, India	International Journal of Cognitive Computing in Engineering	2023	26663074
6757	Mixed Convection from Tandem Semi-Circular Cylinders Arranged in a Vertical Channel	Gupta R.K., Chandra A., Gupta R.K.	Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Gupta, R.K., Department of Chemical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Iranian Journal of Chemistry and Chemical Engineering	2023	10219986

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6758	Association of IL4RA polymorphism in predicting susceptibility toward chronic obstructive pulmonary disease	Pandit D., Sharma P., Yadav H., Garg K., Chopra V., Sharma S.	Pandit, D., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Yadav, H., Tb & Chest Diseases Hospital, Department of Pulmonary Medicine Government Medical College, Punjab, Patiala, 147001, India; Garg, K., Tb & Chest Diseases Hospital, Department of Pulmonary Medicine Government Medical College, Punjab, Patiala, 147001, India; Chopra, V., Tb & Chest Diseases Hospital, Department of Pulmonary Medicine Government Medical College, Punjab, Patiala, 147001, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Pharmacogenomics	2023	14622416
6759	Deep Learning-Based Adaptive Beamforming for Interference Cancellation in V2I Scenarios	Bhadauria P., Kumar R., Sharma S.	Bhadauria, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Traitement du Signal	2023	7650019
6760	Tafsir or Ta'wil? The Shaykhī Contribution to the Qur'ānic Tradition of Nineteenth Century Iran	Chamankhah Assistant Professor of Literary and Cultural Studies & Political Science L.	Chamankhah Assistant Professor of Literary and Cultural Studies & Political Science, L., Thapar School of Liberal Arts and Sciences (TSLAS) at Thapar Institute of Engineering and Technology (TIET), Patiala, India	Muslim World	2023	274909
6761	Guest Editorial: Special Section on Machine Learning and Artificial Intelligence for Managing Networks, Systems, and Services - Part II	Zincir-Heywood N., Birke R., Bou-Harb E., Casale G., El-Khatib K., Inoue T., Kumar N., Lutfiyya H., Puthal D., Shami A., Stakhanova N., Zulkernine F.	Zincir-Heywood, N., Dalhousie University, Faculty of Computer Science, Halifax, B3H 4R2, Canada; Birke, R., University of Turin, Department of Computer Science, Turin, 10124, Italy; Bou-Harb, E., The University of Texas at San Antonio, College of Business, San Antonio, TX 78249, United States; Casale, G., Imperial College London, Department of Computing, London, SW7 2BX, United Kingdom; El-Khatib, K., University of Ontario Institute of Technology, Faculty of Business and Information Technology, Oshawa, L1G 0C5, Canada; Inoue, T., Ntt Corporation, Ntt Network Innovation Laboratories, Yokosuka, Japan; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Lutfiyya, H., Western University, Department of Computer Science, London, N6A 3K7, Canada; Puthal, D., Newcastle University, School of Computing, Newcastle upon Tyne, NE1 7RU, United Kingdom; Shami, A., Western University Electrical and Computer Engineering, London, N6A 3K7, Canada; Stakhanova, N., University of Saskatchewan, Department of Computer Science, Saskatoon, S7N 5C9, Canada; Zulkernine, F., Queen's University, School of Computing, Kingston, K7L 3N6, Canada	IEEE Transactions on Network and Service Management	2023	19324537
6762	Magnetism and Exchange Bias Properties in Ba2ScRuO6	Mohanty P., Marik S., Singh R.P.	Mohanty, P., Indian Institute of Science Education and Research Bhopal, Madhya Pradesh, Bhopal, 462066, India; Marik, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, R.P., Indian Institute of Science Education and Research Bhopal, Madhya Pradesh, Bhopal, 462066, India	Magnetochemistry	2023	23127481
6763	Role of incentives on the dynamics of infectious diseases: implications from a mathematical model	Pal K.K., Rai R.K., Tiwari P.K., Kang Y.	Pal, K.K., Department of Basic Science and Humanities, Indian Institute of Information Technology, Bhagalpur, 813210, India; Rai, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tiwari, P.K., Department of Basic Science and Humanities, Indian Institute of Information Technology, Bhagalpur, 813210, India; Kang, Y., Science and Mathematics Faculty, Arizona State University, Mesa, AZ 85212, United States	European Physical Journal Plus	2023	21905444
6764	Aethra-net: Single image and video dehazing using autoencoder	Juneja A., Kumar V., Singla S.K.	Juneja, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab-147004, India; Kumar, V., Department of Information Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar-Punjab-144027, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab-147004, India	Journal of Visual Communication and Image Representation	2023	10473203
6765	Effect of CuO on physical, structural and optical properties of lithium borosilicate glasses	Kaushik H.K., Kaur A., Garg V., Abida K., Kumar S., Singh K., Singh S.P., Khan S.	Kaushik, H.K., Mahamana Malviya (M.M.) Degree College, Khekra, Bagpat, C.C.S. University Meerut250001, India, M. M. (PG) College Modinagar, Ghaziabad, C.C.S. University Meerut250001, India; Kaur, A., Department of Physics, Punjabi University, Punjab, Patiala, 147002, India; Garg, V., M. M. (PG) College Modinagar, Ghaziabad, C.C.S. University Meerut250001, India, Kisan (PG) College Simbhaoli, Hapur, C.C. S. University Meerut250001, India; Abida, K., Department of Chemistry, KVSCOS, Swami Vivekanand Subharti University, Uttar Pradesh, Meerut, 250005, India; Kumar, S., Dhanauri PG College Dhanauri, Roorkee 247667, Uttarakhand, Haridwar, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S.P., Department of Physics, Punjabi University, Punjab, Patiala, 147002, India; Khan, S., Department of Physics, RIMT University, Punjab, Mandi Gobindgarh, 147301, India	Materials Today Communications	2023	23524928

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6766	High velocity ballistic performance of ZrSiO4 reinforced aluminum alloy matrix composites	Kumar S., Panwar R.S., Pandey O.P., Nagpal P.K., Sharma V.	Kumar, S., Terminal Ballistics Research Laboratory (DRDO), Chandigarh, 160003, India; Panwar, R.S., Department of Metallurgical and Materials Engineering, Punjab Engineering College, Chandigarh, 160012, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Nagpal, P.K., I.K. Gujral Punjab Technical University, Kapurthala, Jalandhar, 144603, India; Sharma, V., Department of Mechanical Engineering, Sagar Institute of Research & Technology, Bhopal, 462041, India	Materials Today Communications	2023	23524928
6767	Pose invariant non-frontal 2D, 2.5D face detection and recognition technique	Thavani S., Sharma S., Kumar V.	Thavani, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., Computer Science and Engineering Department, Punjab Engineering College, Chandigarh, India; Kumar, V., Information Technology Department, Dr. B.R. Ambedkar National Institute of Technology, Punjab, Jalandhar, India	International Journal of Information Technology (Singapore)	2023	25112104
6768	Enumerating and Modelling the Seasonal alterations of Surface Urban Heat and Cool Island: A Case Study over Indian Cities	Bhanage V., Kulkarni S., Sharma R., Lee H.S., Gedam S.	Bhanage, V., Centre of Studies in Resources Engineering, IIT Bombay, Powai, Mumbai, 400076, India, Transdisciplinary Science and Engineering Program, Graduate School of Advanced Science and Engineering, Hiroshima University, Hiroshima, 739-8529, Japan; Kulkarni, S., Institute of Engineering Innovation, School of Engineering, The University of Tokyo, Tokyo, 113-8656, Japan; Sharma, R., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Lee, H.S., Transdisciplinary Science and Engineering Program, Graduate School of Advanced Science and Engineering, Hiroshima University, Hiroshima, 739-8529, Japan, Centre for Planetary Health and Innovation Science, The IDEC Institute, Hiroshima University, Hiroshima, 739-8529, Japan; Gedam, S., Centre of Studies in Resources Engineering, IIT Bombay, Powai, Mumbai, 400076, India	Urban Science	2023	24138851
6769	Review on transition metals containing lithium borate glasses properties, applications and perspectives	Dua V., Arya S.K., Singh K.	Dua, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Arya, S.K., Department of Applied Sciences and Technology, ABES Institute of Technology, UP, Ghaziabad, 201009, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Materials Science	2023	222461
6770	Starch modified NiFe layered double hydroxide composites for better adsorption and photocatalytic removal of reactive dye and piroxicam-20 drug	Bansal M., Pal B.	Bansal, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Environmental Science and Pollution Research	2023	9441344
6771	Enhanced photocatalytic urea oxidation under neutral medium by reduced graphene oxide coated TiO2 nanoparticles	Soni P., Pal B., Das R.K.	Soni, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Das, R.K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Catalysis Communications	2023	15667367
6772	Endophytic Fusarium species, a unique bioresource for disaggregator of misfolded alpha-synuclein	Vats S., Saxena S.	Vats, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Archives of Microbiology	2023	3028933
6773	Interplay between membrane proteins and membrane protein-lipid pertaining to plant salinity stress	Dutta D.	Dutta, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Cell Biochemistry and Function	2023	2636484
6774	Proxy smart contracts for zero trust architecture implementation in Decentralised Oracle Networks based applications	Gupta A., Gupta R., Jadav D., Tanwar S., Kumar N., Shabaz M.	Gupta, A., Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu, India, Department of Computer Science & Engineering, Nirma University, Gujarat, India, Department of Computer Science & Engineering, Thapar University, Punjab, India; Gupta, R., Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu, India, Department of Computer Science & Engineering, Nirma University, Gujarat, India, Department of Computer Science & Engineering, Thapar University, Punjab, India; Jadav, D., Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu, India, Department of Computer Science & Engineering, Nirma University, Gujarat, India, Department of Computer Science & Engineering, Thapar University, Punjab, India; Tanwar, S., Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu, India, Department of Computer Science & Engineering, Nirma University, Gujarat, India, Department of Computer Science & Engineering, Thapar University, Punjab, India; Kumar, N., Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu, India, Department of Computer Science & Engineering, Nirma University, Gujarat, India, Department of Computer Science & Engineering, Thapar University, Punjab, India; Shabaz, M., Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu, India, Department of Computer Science & Engineering, Nirma University, Gujarat, India, Department of Computer Science & Engineering, Thapar University, Punjab, India	Computer Communications	2023	1403664

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6775	Analysis of quad-band polarization- and incident-angle independent low profile metamaterial absorber	Kaur M., Singh H.S.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, 147004, India	Frequenz	2023	161136
6776	Fragmentation analysis of various compound nuclei formed in the mass region 200 and the associated entrance channel effects	Sarkar G., Kaur A., Maiti M., Sharma M.K.	Sarkar, G., Department of Physics, Indian Institute of Technology Roorkee, Roorkee, 247 667, India; Kaur, A., Department of Physics, Faculty of Science, University of Zagreb, Bijenička c. 32, Zagreb, 10000, Croatia; Maiti, M., Department of Physics, Indian Institute of Technology Roorkee, Roorkee, 247 667, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India	Pramana - Journal of Physics	2023	3044289
6777	Structural, morphological and conducting properties of copper and nickel-substituted strontium manganite	Kaur P., Singh K.	Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Today Communications	2023	23524928
6778	Regression analysis and features of negative activation energy for MHD nanofluid flow model: A comparative study	Kumar B., Prachi, Singhal A., Nandkeolyar R., Kumar P., Chamkha A.J.	Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Prachi, Department of Applied Sciences and Humanities, RIT, Roorkee, 247667, India; Singhal, A., School of Sciences, Christ (Deemed to be University), Delhi NCR201003, India; Nandkeolyar, R., Department of Mathematics, National Institute of Technology, Jamshedpur831014, India; Kumar, P., Department of Applied Mechanics, Indian Institute of Technology, Delhi110016, India; Chamkha, A.J., Faculty of Engineering, Kuwait College of Science and Technology, Doha District, Kuwait	Propulsion and Power Research	2023	2212540X
6779	Modeling heterogeneity in an open percolation backbone fractal traffic network	Verma M., Sharma S.	Verma, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Physica A: Statistical Mechanics and its Applications	2023	3784371
6780	The α -particle clustering and half-lives of the newly discovered 207,208Th decay chains within relativistic-Hartree-Bogoliubov approach	Majekodunmi J.T., Alsultan T.Y.T., Anwar K., Badawi M N., Jain D., Kumar R., Bhuyan M.	Majekodunmi, J.T., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Alsultan, T.Y.T., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Anwar, K., Institute of Engineering Mathematics, Universiti Malaysia Perlis, Perlis, Arau, 02600, Malaysia; Badawi M, N., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Jain, D., Department of Physics, Mata Gujri College, Punjab, Fatehgarh, 140407, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia	Nuclear Physics A	2023	3759474
6781	Flu-Net: two-stream deep heterogeneous network to detect flu like symptoms from videos using grey wolf optimization algorithm	Gupta H., Imran J., Sharma C.	Gupta, H., Department of Computer Science and Engineering, Quantum University, Roorkee, India; Imran, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, C., Department of Computer Science and Engineering, Quantum University, Roorkee, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6782	Tribological characteristics of LM13 alloy based ilmenite-boron carbide reinforced hybrid composites for brake drum applications	Gupta R., Nanda T., Pandey O.P.	Gupta, R., MED, TIET, Punjab, Patiala, India; Nanda, T., MED, TIET, Punjab, Patiala, India; Pandey, O.P., SPMS, TIET, Punjab, Patiala, India	Wear	2023	431648
6783	Towards a precise understanding of social entrepreneurship: An integrated bibliometric-machine learning based review and research agenda	Kaushik V., Tewari S., Sahasranamam S., Hota P.K.	Kaushik, V., Indian Institute of Management Kashipur, Uttarakhand, Kashipur, India; Tewari, S., Indian Institute of Management Kashipur, Uttarakhand, Kashipur, India; Sahasranamam, S., Hunter Centre for Entrepreneurship, Strathclyde Business School, University of Strathclyde, Glasgow, United Kingdom; Hota, P.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, India, Research School of Management, Australian National University, Australia	Technological Forecasting and Social Change	2023	401625
6784	ISSR marker assisted genetic diversity assessment in natural populations of two endemic orchids Aerides multiflora and Rhynchosylis retusa from Uttarakhand, India	Lal A., Pant M., Pant G., Palni L.M.S., Kumar A., Kumar G.	Lal, A., Department of Biotechnology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Pant, M., Department of Biotechnology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Pant, G., Department of Microbiology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Palni, L.M.S., Department of Biotechnology, Graphic Era (Deemed to be University), Uttarakhand, Dehradun, India; Kumar, A., Department of Biotechnology, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India; Kumar, G., Department of Microbiology, School of Bioengineering and Biosciences, Lovely Professional University, Punjab, India	South African Journal of Botany	2023	2546299

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6785	Power optimization of a single-core processor using LSTM based encoder–decoder model for online DVFS	Thethi S.K., Kumar R.	Thethi, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Kumar, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India	Sadhana - Academy Proceedings in Engineering Sciences	2023	2562499
6786	Gordian knot uncut: Understanding the problem of founder exit in social ventures	Singaram R., Radu-Lefebvre M., Gartner W.B.	Singaram, R., Audencia Business School, Nantes, France, LM Thapar School of Management, Punjab, India; Radu-Lefebvre, M., Audencia Business School, Nantes, France; Gartner, W.B., Babson College, Babson ParkMA, United States, Linneaus University, Växjö, Sweden	Journal of Business Venturing Insights	2023	23526734
6787	Intuitionistic fuzzy three-way ranking-based TOPSIS approach with a novel entropy measure and its application to medical treatment selection	Jin J., Garg H.	Jin, J., College of Mathematics and Information Science, Guiyang University, Guizhou, Guiyang, 550005, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq	Advances in Engineering Software	2023	9659978
6788	A hybrid deep learning CNN-ELM approach for parking space detection in Smart Cities	Kaur R., Roul R.K., Batra S.	Kaur, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Roul, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Batra, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Neural Computing and Applications	2023	9410643
6789	Insights into the fracturing process of plain concrete under crack opening	Singh P., Yogesh R., Bhowmik S., Kishen J.M.C.	Singh, P., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Yogesh, R., Department of Civil Engineering, Indian Institute of Science, Bangalore, 560 012, India; Bhowmik, S., Department of Civil Engineering, National Institute of Technology, Rourkela, 769008, India; Kishen, J.M.C., Department of Civil Engineering, Indian Institute of Science, Bangalore, 560 012, India	International Journal of Fracture	2023	3769429
6790	Directional fretting wear behaviour of constrained groove pressed aluminium sheet	Yadav P.C., Gupta G., Gupta R., Nisar A.	Yadav, P.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, G., Department of Materials Science and Engineering, Indian Institute of Technology Kanpur, Kanpur, 208016, India; Gupta, R., Department of Metallurgical Engineering, Indian Institute of Technology (BHU), Varanasi, 221005, India; Nisar, A., Plasma Forming Laboratory, Department of Mechanical and Materials Engineering, Florida International UniversityFL 33174, United States	Materials Today Communications	2023	23524928
6791	Detection and classification of dermatoscopic images using segmentation and transfer learning	Shrestha H., Jaganathan S.C.B., Dhasarathan C., Suriyan K.	Shrestha, H., Department of Computer Science, Saarland University, Saarbrücken, Germany; Jaganathan, S.C.B., School of Computing Science and Engineering, VIT Bhopal University, Bhopal-Indore Highway, Kothrikalan, Madhya Pradesh, Sehore, 466114, India; Dhasarathan, C., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Suriyan, K., Department of Electronics and Communication Engineering, Study World College of Engineering, Tamilnadu, Coimbatore, India	Multimedia Tools and Applications	2023	13807501
6792	DL-DARE: Deep learning-based different activity recognition for the human–robot interaction environment	Kansal S., Jha S., Samal P.	Kansal, S., Computer Science Engineering Department, Thapar Institute of Engineering Technology Patiala, Punjab, Patiala, 147004, India; Jha, S., Computer Science Engineering Department, Thapar Institute of Engineering Technology Patiala, Punjab, Patiala, 147004, India; Samal, P., Computer Science Engineering Department, Thapar Institute of Engineering Technology Patiala, Punjab, Patiala, 147004, India	Neural Computing and Applications	2023	9410643
6793	Hybrid sooty tern naked mole-rat algorithm and Fuzzy Type-2 logic-based trust and energy-aware stable clustering protocol	Mittal N., Singh S., Nayyar A., Singh U.	Mittal, N., Skill Faculty of Engineering and Technology, Shri Vishwakarma Skill University, Palwal-121102, Haryana, India; Singh, S., Deptt. of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, 140413, India, Department of ECE, Indraprastha Institute of Information Technology, Delhi, 110020, India; Nayyar, A., Graduate School, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang 550000, Viet Nam; Singh, U., Department of Electronics & Communication Engineering, Thapar University, Punjab, Patiala, 147004, India	Expert Systems with Applications	2023	9574174
6794	How does techno-economic analysis and lifecycle assessment help in commercializing the biohydrogen supply chain?	Ganeshan P., Vigneswaran V.S., Gowd S.C., Kondusamy D., Sanjay kumar C., Krishnamoorthy N., Kumar D., Juneja A., Paramasivan B., Raju N.N., Rajendran K., Pugazhendhi A.	Ganeshan, P., Department of Environmental Science and Engineering, SRM University-AP, Andhra Pradesh, India; Vigneswaran, V.S., Department of Environmental Science and Engineering, SRM University-AP, Andhra Pradesh, India; Gowd, S.C., Department of Environmental Science and Engineering, SRM University-AP, Andhra Pradesh, India; Kondusamy, D., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, India; Sanjay kumar, C., Department of Chemical Engineering, Indian Institute of Bombay, India; Krishnamoorthy, N., Department of Biotechnology & Medical Engineering, National Institute of Technology Rourkela, India; Kumar, D., Department of Chemical Engineering, State University of New York College of Environmental Science and Forestry, Syracuse, NY 13210, United States; Juneja, A., Department of Biology, Syracuse University, Syracuse, NY 13210, United States; Paramasivan, B., Department of Biotechnology & Medical Engineering, National Institute of Technology Rourkela, India; Raju, N.N., Department of Mechanical Engineering, Indian Institute of Technology Guwahati, India; Rajendran, K., Department of Environmental Science and Engineering, SRM University-AP, Andhra Pradesh, India; Pugazhendhi, A., School of Engineering, Lebanese American University, Byblos, Lebanon, University Centre for Research & Development, Department of Civil Engineering, Chandigarh University, Mohali, India	Fuel	2023	162361

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6795	Effect of rare earth oxide microparticles on mechanical, corrosion, antibacterial, and hemolytic behavior of Mg-Hydroxyapatite composite for orthopedic applications – A preliminary in-vitro study	Aggarwal D., Kumar V., Sharma S.	Aggarwal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Biotechnology Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Biomedical Materials Research - Part B Applied Biomaterials	2023	15524973
6796	Preparation, characterization, and application of soy protein isolate/Mg–Al layered double hydroxide-based bionanocomposite films	Sharma S., Das N., Pal B.	Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Chemical Papers	2023	3666352
6797	Reliability evaluation of a novel fault tolerant multilevel inverter with reduced components	Dewangan N.K., Verma D., Agrawal R., Kumar D., Gupta K.K.	Dewangan, N.K., Department of Mechatronics, Manipal Institute of Technology, Manipal Academy of Higher Education, Karnataka, Manipal, 576104, India; Verma, D., Department of Electrical and Electronics Engineering, Birla Institute of Technology, Mesra, Jaipur Campus, Jaipur, India; Agrawal, R., Electrical and Electronics Engineering, Trinity Institute of Technology and Research, Bhopal, India; Kumar, D., Department of Industrial Research Design and Development (IRDD), Aartech Solonics Ltd, Mandideep, 462046, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2023	9487921
6798	A novel deep learning approach to predict subject arm movements from EEG-based signals	Kansal S., Garg D., Upadhyay A., Mittal S., Talwar G.S.	Kansal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, India; Garg, D., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, India; Upadhyay, A., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, India; Mittal, S., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, India; Talwar, G.S., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab, Patiala, India	Neural Computing and Applications	2023	9410643
6799	Day-ahead multi-objective procurement of voltage control ancillary service in dynamic wind-solar incorporated deregulated power system	Sharma A., Jain S.K.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India; Jain, S.K., Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2023	9487921
6800	BaO Variation Effect on Crystallization Kinetics of SrO-SiO ₂ -B ₂ O ₃ -ZrO ₂ Glasses	Walia T., Singh K.	Walia, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Silicon	2023	1876990X
6801	Detection and diabetic retinopathy grading using digital retinal images	Malhi A., Grewal R., Pannu H.S.	Malhi, A., Bournemouth University, Poole, United Kingdom, Department of Computer Science, Aalto University, Espoo, Finland; Grewal, R., Thapar Institute of Engineering and Technology, Patiala, India; Pannu, H.S., Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Intelligent Robotics and Applications	2023	23665971
6802	Novel Gained and Lost Dominance Score Method Based on Cumulative Prospect Theory for Group Decision-Making Problems in Probabilistic Hesitant Fuzzy Environment	Liao N., Cai Q., Garg H., Wei G., Xu X.	Liao, N., School of Business, Sichuan Normal University, Chengdu, 610101, China; Cai, Q., School of Business, Sichuan Normal University, Chengdu, 610101, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Wei, G., School of Business, Sichuan Normal University, Chengdu, 610101, China; Xu, X., School of Civil Engineering, Chongqing University of Arts and Sciences, Chongqing, 402160, China	International Journal of Fuzzy Systems	2023	15622479
6803	Model-based person identification in multi-gait scenario using hybrid classifier	Singh J.P., Singh U.P., Jain S.	Singh, J.P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, U.P., School of Mathematics, Shri Mata Vaishno Devi University, Katra, 182320, India; Jain, S., Department of Computer Science and Information Technology, Central University of Jammu, Samba, 181143, India	Multimedia Systems	2023	9424962
6804	Hybrid controller for mid-range mid-power audio application	Joshi S., Tolani S., Sensarma P.	Joshi, S., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147003, India; Tolani, S., Sardar Vallabhbhai National Institute of Technology Surat, Gujarat395007, India; Sensarma, P., Indian Institute of Technology Kanpur, Uttar Pradesh, Kalyanpur, Kanpur, 208016, India	ISA Transactions	2023	190578

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6805	Dynamic SFC Embedding Algorithm Assisted by Federated Learning in Space-Air-Ground-Integrated Network Resource Allocation Scenario	Zhang P., Zhang Y., Kumar N., Guizani M.	Zhang, P., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China, Xidian University, State Key Laboratory of Integrated Services Networks, Xi'an, 710071, China; Zhang, Y., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to Be University, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon; Guizani, M., Mohamed Bin Zayed University of Artificial Intelligence, Machine Learning Department, Abu Dhabi, United Arab Emirates	IEEE Internet of Things Journal	2023	23274662
6806	Impact of Thickness and wt% on the Dielectric Properties of Sugarcane Bagasse and MWCNT Composite Material as Microwave Absorber	Tripathi A., Sandha K.S.	Tripathi, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sandha, K.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Waste and Biomass Valorization	2023	18772641
6807	Multi-dimensional information-driven many-objective software modularization approach	Prajapati A., Parashar A., Rathee A.	Prajapati, A., Department of Computer Science Engineering & Information Technology, Jaypee Institute of Information Technology, Noida, 201307, India; Parashar, A., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, 147004, India; Rathee, A., Department of Computer Science, Government College Barota, Haryana, 131301, India	Frontiers of Computer Science	2023	20952228
6808	Hyperspectral image segmentation: a comprehensive survey	Grewal R., Kasana S.S., Kasana G.	Grewal, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Kasana, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India	Multimedia Tools and Applications	2023	13807501
6809	Hatred and trolling detection transliteration framework using hierarchical LSTM in code-mixed social media text	Shekhar S., Garg H., Agrawal R., Shivani S., Sharma B.	Shekhar, S., Department of Computer Engineering and Applications, GLA University, Mathura, 281406, India; Garg, H., Department of Computer Engineering and Applications, GLA University, Mathura, 281406, India; Agrawal, R., Department of Computer Engineering and Applications, GLA University, Mathura, 281406, India; Shivani, S., Department of Computer Science & Engineering, Thapar University, Patiala, 147004, India; Sharma, B., Chitkara University School of Engineering and Technology, Chitkara University, Himachal Pradesh, Chandigarh, India	Complex and Intelligent Systems	2023	21994536
6810	A new grey system approach to forecast closing price of Bitcoin, Bionic, Cardano, Dogecoin, Ethereum, XRP Cryptocurrencies	Singh P.K., Pandey A.K., Bose S.C.	Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, A.K., Centre for Integrated and Rural Development, Banaras Hindu University, Varansi, India; Bose, S.C., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Quality and Quantity	2023	335177
6811	Authorization and privacy preservation in cloud-based distributed ehr system using blockchain technology and anonymous digital ring signature	Grover B., Kushwaha D.K.	Grover, B., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kushwaha, D.K., Department of Information Technology, Noida Institute of Engineering and Technology, U.P., Greater Noida, India	Health Services and Outcomes Research Methodology	2023	13873741
6812	A study on transport of Escherichia coli through saturated porous medium	Chalotra A., Ratha D., Babbar R., Baranwal M.	Chalotra, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Environmental Science and Technology	2023	17351472
6813	Optimization of Pretreatment of Wheat Straw Using Response Surface Methodology for Production of Lactic Acid Using Bacillus sonorensis Strain DGS15	Chawla S.K., Goyal D.	Chawla, S.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Bioenergy Research	2023	19391234
6814	Deep Fusion: Crafting Transferable Adversarial Examples and Improving Robustness of Industrial Artificial Intelligence of Things	Wang Y., Tan Y.-A., Baker T., Kumar N., Zhang Q.	Wang, Y., Beijing Institute of Technology, School of Cyberspace Science and Technology, Beijing, 100811, China; Tan, Y.-A., Beijing Institute of Technology, School of Cyberspace Science and Technology, Beijing, 100811, China; Baker, T., University of Sharjah, Department of Computer Science, Sharjah, 27272, United Arab Emirates; Kumar, N., Thapar University, Patiala, 147004, India, Asia University, Department of Computer Science and Information Engineering, Taichung City, 413, Taiwan, King Abdul Aziz University, Jeddah, 22254, Saudi Arabia, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India; Zhang, Q., Beijing Institute of Technology, School of Computer Science and Technology, Beijing, 100081, China	IEEE Transactions on Industrial Informatics	2023	15513203

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6815	A hybrid tiny YOLO v4-SPP module based improved face mask detection vision system	Kumar A., Kalia A., Sharma A., Kaushal M.	Kumar, A., Department of Computer Science, Himachal Pradesh University, Shimla, India; Kalia, A., Department of Computer Science, Himachal Pradesh University, Shimla, India; Sharma, A., CSE, UIET, Panjab University, Chandigarh, India; Kaushal, M., CSED, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6816	A CNN-based scheme for COVID-19 detection with emergency services provisions using an optimal path planning	Barnawi A., Chhikara P., Tekchandani R., Kumar N., Boulares M.	Barnawi, A., Department of Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Boulares, M., Department of Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia	Multimedia Systems	2023	9424962
6817	A review on terpenes for treatment of gastric cancer: current status and nanotechnology-enabled future	Attri K., Sharda D., Chudasama B., Mahajan R.L., Choudhury D.	Attri, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chudasama, B., School of Physics and Material Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mahajan, R.L., Department of Mechanical Engineering, Virginia TechInstitute for Critical Technology and Applied Science, Virginia Tech, Blacksburg, VA 24061, United States, Thapar Institute of Engineering and Technology-Virginia Tech Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Thapar Institute of Engineering and Technology-Virginia Tech Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	RSC Sustainability	2023	27538125
6818	GenSMILES: An enhanced validity conscious representation for inverse design of molecules	Bhadwal A.S., Kumar K., Kumar N.	Bhadwal, A.S., National Institute of Technology, Srinagar, Uttarakhand, 246174, India; Kumar, K., National Institute of Technology, Srinagar, Uttarakhand, 246174, India; Kumar, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102 2801, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, 22233, Saudi Arabia, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India, Department of Computer Science and Engineering, Chandigarh University, Punjab, Gharuan, Mohali, 140413	Knowledge-Based Systems	2023	9507051
6819	Metaverse-based higher education: A review	Gupta M., Garg A., Garg A.	Gupta, M., Chitkara Business School, Chitkara University, India; Garg, A., Thapar Institute of Engineering and Technology, India; Garg, A., Cuelearn Pvt. Ltd., Bangalore, India	Applications of Neuromarketing in the Metaverse	2023	
6820	Flow of water conveying Fe ₃ O ₄ and Mn-ZnFe ₂ O ₄ nanoparticles over a rotating disk: Significance of thermophoresis and Brownian motion	Sharma K., Vijay N., Bhardwaj D., Jindal R.	Sharma, K., Department of Mathematics, MNIT Jaipur302017, India; Vijay, N., Department of Mathematics, MNIT Jaipur302017, India; Bhardwaj, D., Department of Electronics & Communication Engineering, TIET Patiala147004, India; Jindal, R., Department of Mathematics, MNIT Jaipur302017, India	Journal of Magnetism and Magnetic Materials	2023	3048853
6821	Maclaurin symmetric mean aggregation operators based on novel Frank T-norm and T-conorm for intuitionistic fuzzy multiple attribute group decision-making	Hussain A., Wang H., Ullah K., Garg H., Pamucar D.	Hussain, A., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Wang, H., School of Economics and Management, Nanchang Hongkong University, China; Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Pamucar, D., Faculty of Organizational Sciences, University of Belgrade, Belgrade, 11000, Serbia, College of Engineering, Yuan Ze University, Taiwan	Alexandria Engineering Journal	2023	11100168
6822	High-performance association rule mining: Mortality prediction model for cardiovascular patients with COVID-19 patterns	Nadakinamani R.G., Reyana A., Gupta Y., Kautish S., Ghorashi S., Jamjoom M.M., Wagdy Mohamed A.	Nadakinamani, R.G., Specialist Cardiologist, Badr Al Samaa Hospital, Oman; Reyana, A., Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences, Tamil Nadu, Coimbatore, India; Gupta, Y., Thapar Institute of Engineering and Technology, Patiala, India; Kautish, S., Patan College For Professional Studies, Kathmandu, Nepal; Ghorashi, S., Department of Computer Sciences, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, P.O. Box 84428, Riyadh, 11671, Saudi Arabia; Jamjoom, M.M., Department of Computer Sciences, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, P.O. Box 84428, Riyadh, 11671, Saudi Arabia; Wagdy Mohamed, A., Operations Research Department, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, 12613, Egypt, Department of Mathematics and Actuarial Science School of Sciences Engineering, The American University in Cairo, Cairo, 11835, Egypt	Alexandria Engineering Journal	2023	11100168

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6823	Development of field applicable remediation procedure using bio-cementitious grout for concrete cracks in variable orientations	Anand K., Goyal S., Reddy M.S.	Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Building Engineering	2023	23527102
6824	Enzyme-catalyzed addition of diazo compounds to in-situ generated imines	Kamboj P., Tyagi V.	Kamboj, P., School of Chemistry and BiochemistryThapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Tyagi, V., School of Chemistry and BiochemistryThapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Tetrahedron	2023	404020
6825	Buoyancy-driven mixed convection flow of FENE-P fluids over a flat plate	Singla T., Kumar B., Sharma S.	Singla, T., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Modern Physics B	2023	2179792
6826	Social Network Analysis: A Survey on Measure, Structure, Language Information Analysis, Privacy, and Applications	Singh S.S., Srivastava V., Kumar A., Tiwari S., Singh D., Lee H.-N.	Singh, S.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Srivastava, V., Department of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India; Kumar, A., Department of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, D., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Buk-gu, Gwangju, 61005, South Korea; Lee, H.-N., School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Buk-gu, Gwangju, 61005, South Korea	ACM Transactions on Asian and Low-Resource Language Information Processing	2023	23754699
6827	Blockchain adoption in agri-food supply chain management: an empirical study of the main drivers using extended UTAUT	Sharma A., Sharma A., Singh R.K., Bhatia T.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R.K., International Management Institute – Kolkata, Kolkata, India; Bhatia, T., Thapar Institute of Engineering and Technology, Patiala, India	Business Process Management Journal	2023	14637154
6828	Comparative study of the performance of PID and pole placement control-based robotic arm for pick and place operations	Jain S., Himanshu, Jain P.	Jain, S., Thapar Institute of Engineering and Technology, Patiala, India; Himanshu, Thapar Institute of Engineering and Technology, Patiala, India; Jain, P., Thapar Institute of Engineering and Technology, Patiala, India	AIP Conference Proceedings	2023	0094243X
6829	Emerging ethical leadership in crisis management	Dhamija P.	Dhamija, P., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India, CIDB Centre of Excellence, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa, South Africa	Emotional Intelligence for Leadership Effectiveness: Management Opportunities and Challenges during Times of Crisis	2023	
6830	Stationary hypergeometric solitons and their stability in a Bose-Einstein condensate with PT-symmetric potential	Bhatia S., Goyal A., Jana S., Kumar C.N.	Bhatia, S., Department of Physics, Panjab University, Chandigarh, 160014, India; Goyal, A., Department of Physics, Goswami Ganesh Dutta Sanatan Dharma College, Chandigarh, 160030, India; Jana, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, C.N., Department of Physics, Panjab University, Chandigarh, 160014, India	Physics Letters, Section A: General, Atomic and Solid State Physics	2023	3759601
6831	Triazole-Peptide Conjugate as a Modulator of A β -Aggregation, Metal-Mediated A β -Aggregation, and Cytotoxicity	Mann S., Kaur A., Kaur A., Priyadarshi N., Goyal B., Singhal N.K., Goyal D.	Mann, S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Priyadarshi, N., National Agri-Food Biotechnology Institute, Punjab, S.A.S. Nagar, 140306, India; Goyal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singhal, N.K., National Agri-Food Biotechnology Institute, Punjab, S.A.S. Nagar, 140306, India; Goyal, D., Department of Chemistry, DAV College, Sector 10, Chandigarh, 160011, India	ACS Chemical Neuroscience	2023	19487193
6832	Parametric experimental investigation of additive manufacturing-based distal ulna bone plate: a response surface methodology-based design approach	Sharma S., Gupta V., Mudgal D.	Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Rapid Prototyping Journal	2023	13552546
6833	Investigation of the range of signal under different atmospheric conditions in FSO communication employing spatial diversity	Rao A.K., Kaur G., Singh H., Kumar R.	Rao, A.K., E.C.E Deptt., Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., E.C.E Deptt., Thapar Institute of Engineering and Technology, Patiala, India; Singh, H., E.C.E Deptt., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., E.C.E Deptt., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Optoelectronics and Advanced Materials	2023	14544164

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6834	Statistical Analysis for Log-Normal Distribution in the Presence of Hybrid Censoring and Step-Stress	Yadav P., Kumar D., Singh S.	Yadav, P., Department of Statistics, Central University of Haryana, Haryana, India; Kumar, D., Department of Statistics, Central University of Haryana, Haryana, India; Singh, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Strength of Materials	2023	392316
6835	Experimental investigation and modelling of rainfall-induced erosion of semi-arid region soil under various vegetative land covers	Al Balasmeh O., Karmaker T., Babbar R.	Al Balasmeh, O., Ecological Modelling Laboratory, Department of Physical & Environmental Sciences, University of Toronto, Toronto, ON M1C 1A4, Canada, Water Diplomacy Center, Jordan University of Science and Technology, Irbid, 22110, Jordan, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Karmaker, T., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Hydroinformatics	2023	14647141
6836	Accelerated Arithmetic Optimization Algorithm by Cuckoo Search for Solving Engineering Design Problems	Hijjawi M., Alshinwan M., Khashan O.A., Alshdaifat M., Almanaseer W., Alomoush W., Garg H., Abualigah L.	Hijjawi, M., Faculty of Information Technology, Applied Science Private University, Amman, 11931, Jordan; Alshinwan, M., Faculty of Information Technology, Applied Science Private University, Amman, 11931, Jordan, MEU Research Unit, Middle East University, Amman, 11831, Jordan; Khashan, O.A., Research and Innovation Centers, Rabdan Academy, P.O. Box 114646, Abu Dhabi, United Arab Emirates; Alshdaifat, M., Faculty of Engineering, Department of Civil Engineering, The Hashemite University, Zarqa, 13133, Jordan; Almanaseer, W., Faculty of Information Technology, Applied Science Private University, Amman, 11931, Jordan; Alomoush, W., School of Information Technology, Skyline University College, P.O. Box 1797, Sharjah, United Arab Emirates; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, 54001, Iraq, College of Technical Engineering, The Islamic University, Najaf, 54001, Iraq; Abualigah, L., MEU Research Unit, Middle East University, Amman, 11831, Jordan, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Computer Science Department, Prince Hussein Bin Abdullah Faculty for Information Technology, Al al-Bayt University, Mafraq, 25113, Jordan, Hourani Center for Applied Scientific Research, Al-Ahliyya Amman University, Amman, 19328, Jordan, Department of Computing and Information Systems, School of Engineering and Technology, Sunway University Malaysia, Petaling Jaya, 27500, Malaysia	Processes	2023	22279717
6837	On Selection of the Efficient Water Purification Strategy at Commercial Scale Using Complex Intuitionistic Fuzzy Dombi Environment	Masmali I., Khalid A., Shuaib U., Razaq A., Garg H., Razzaque A.	Masmali, I., Department of Mathematics, College of Science, Jazan University, Jazan, 45142, Saudi Arabia; Khalid, A., Department of Mathematics, Government College University, Faisalabad, 38000, Pakistan; Shuaib, U., Department of Mathematics, Government College University, Faisalabad, 38000, Pakistan; Razaq, A., Department of Mathematics, Division of Science and Technology, University of Education, Lahore, 54770, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, 54001, Iraq; Razzaque, A., Department of Basic Sciences, King Faisal University Al Ahsa, Al Hofuf, 31982, Saudi Arabia	Water (Switzerland)	2023	20734441
6838	Solar Light-Induced Photocatalytic Response of BiOCl/PANI Composite towards the Degradation of Tetracycline	Goyal J., Sharma S., Basu S.	Goyal, J., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Catalysts	2023	20734344
6839	Two-Tier Feature Extraction with Metaheuristics-Based Automated Forensic Speaker Verification Model	Gaurav, Bhardwaj S., Agarwal R.	Gaurav, Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhardwaj, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electronics (Switzerland)	2023	20799292
6840	Hydrothermal synthesis of nickel oxide nanoflowers as a blend of 1D and 2D morphologies for its improved OER activity and supercapacitance	Upadhyay S., Kumar N., Tanwar N., Priya R., Chetana S., Joshi N.C., Hossain I., Pandey O.P.	Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Electronics & Communication Engineering, Graphic Era (Deemed to be University), Dehradun, India; Tanwar, N., Chandigarh University, Chandigarh, India; Priya, R., Chandigarh University, Chandigarh, India; Chetana, S., Department of Mechanical Engineering, ATME College of Engineering, Karnataka, Mysore, India; Joshi, N.C., Division of Research and Innovation, Uttaranchal University, Dehra Dun, India; Hossain, I., School of Natural Sciences and Mathematics, Ural Federal University, Yekaterinburg, 620000, Russian Federation; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Materials Science: Materials in Electronics	2023	9574522
6841	The Technology Interface and Student Engagement Are Significant Stimuli in Sustainable Student Satisfaction	Pandita A., Kiran R.	Pandita, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kiran, R., Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sustainability (Switzerland)	2023	20711050

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6842	Multivariate variational mode decomposition & phase space reconstruction based motor imagery EEG classification	Dovedi T., Upadhyay R., Kumar V.	Dovedi, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Computers and Electrical Engineering	2023	457906
6843	Plant growth promotion and abiotic stress mitigation in rice using endophytic fungi: Advances made in the last decade	Sodhi G.K., Saxena S.	Sodhi, G.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Environmental and Experimental Botany	2023	988472
6844	The considerations of size effects on Plane and Rayleigh waves in a rotating couple stress medium	Sharma V., Kumar S.	Sharma, V., Department of Mathematics, Lovely Professional University, Punjab, Phagwara, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2023	16785878
6845	Penicillium citrinum, a Drought-Tolerant Endophytic Fungus Isolated from Wheat (Triticum aestivum L.) Leaves with Plant Growth-Promoting Abilities	Kaur R., Saxena S.	Kaur, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Current Microbiology	2023	3438651
6846	Rubberized cement-stabilized aggregates: Mechanical performance, thermal properties, and effect on temperature fluctuation in road pavements	Pham P.N., Tran T.T.T., Nguyen P., Truong T.A., Siddique R., Liu Y., Zhuge Y.	Pham, P.N., Faculty of Road and Bridge Engineering, The University of Danang - University of Science and Technology, 54 Nguyen Luong Bang str., Danang City, Viet Nam; Tran, T.T.T., Faculty of Road and Bridge Engineering, The University of Danang - University of Science and Technology, 54 Nguyen Luong Bang str., Danang City, Viet Nam; Nguyen, P., Faculty of Road and Bridge Engineering, The University of Danang - University of Science and Technology, 54 Nguyen Luong Bang str., Danang City, Viet Nam; Truong, T.A., Faculty of Road and Bridge Engineering, The University of Danang - University of Science and Technology, 54 Nguyen Luong Bang str., Danang City, Viet Nam; Siddique, R., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Liu, Y., UniSA STEM, University of South AustraliaSA 5000, Australia; Zhuge, Y., UniSA STEM, University of South AustraliaSA 5000, Australia	Transportation Geotechnics	2023	22143912
6847	'A plant's major strength in rhizosphere': the plant growth promoting rhizobacteria	Bhadrecha P., Singh S., Dwibedi V.	Bhadrecha, P., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Singh, S., Department of Biotechnology and Microbiology, School of Sciences, Noida International University, Gautam Budh Nagar, Uttar Pradesh, Gautam Budh Nagar, 203201, India; Dwibedi, V., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India, Thapar Institute of Engineering and Technology, Department of Biotechnology, PATIALA, 147004, India	Archives of Microbiology	2023	3028933
6848	Bacterial exopolysaccharides as emerging bioactive macromolecules: from fundamentals to applications	Kaur N., Dey P.	Kaur, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Research in Microbiology	2023	9232508
6849	Effect of Sm2O3 on the physical, structural and optical properties of 40 SiO2 - 40 B2O3 - 10 V2O5 - (10-x) Fe2O3 glasses	Kaur J., Kaur P., Mudahar I., Singh K.	Kaur, J., Department of Physics, Punjabi University, Punjab, Patiala, 147002, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mudahar, I., Department of Physics, Punjabi University, Punjab, Patiala, 147002, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Ceramics International	2023	2728842
6850	An optimum localization approach using hybrid TSNMRA in 2D WSNs	Singh P., Singh P., Mittal N., Singh U., Singh S.	Singh, P., Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, India; Singh, P., Department of Electronics and Electrical Engineering, Lovely Professional University, Punjab, Phagwara, India; Mittal, N., Skill faculty of engineering and technology, Shri Vishwakarma Skill University, Haryana, Palwal, India; Singh, U., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, India, Department of ECE, Indraprastha Institute of Information Technology, Delhi, India	Computer Networks	2023	13891286
6851	Esterification as well as transesterification of waste oil using potassium imbued tungstophosphoric acid supported graphene oxide as heterogeneous catalyst: Optimization and kinetic modeling	Singh H., Ali A.	Singh, H., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Ali, A., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, Affiliate Faculty: Virginia Tech-TIET Center of Excellent in Emerging Materials, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Renewable Energy	2023	9601481

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6852	The role of occupancy and transition rate on traffic flow in a percolation-backbone fractal	Verma M., Sharma S.	Verma, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chaos, Solitons and Fractals	2023	9600779
6853	Fractional variational duality results for higher-order multiobjective problems	Dhingra V., Kailey N.	Dhingra, V., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Japan Journal of Industrial and Applied Mathematics	2023	9167005
6854	Thermomechanical analysis of foulants and graphene platelets reinforced polymer matrix coated steel substrates	Sharma N., Jain D., Sharma B., Batra R.C.	Sharma, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, B., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Batra, R.C., Department of Biomedical Engineering and Mechanics, M/C 0219, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States	Composite Structures	2023	2638223
6855	Characterization of Storage Stability of EPDM Rubberized Asphalt with Tire Pyrolytic Oil and Sulfur	Kumar A., Choudhary R., Kumar A.	Kumar, A., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Choudhary, R., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, 781039, India; Kumar, A., Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Materials in Civil Engineering	2023	8991561
6856	Reinforcement of compatibilized nanoclay/inviya fibers to epoxy-based glass fiber nanocomposites for high-impact strength applications	Shelly D., Nanda T., Mehta R.	Shelly, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mehta, R., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, TIET-Virginia Tech Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Patiala, India	Archives of Civil and Mechanical Engineering	2023	16449665
6857	Novel g-C ₃ N ₄ /BiVO ₄ heterostructured nanohybrids for high efficiency photocatalytic degradation of toxic chemical pollutants	Reddy C.V., Nagar A., Shetti N.P., Reddy I.N., Basu S., Shim J., Kakarla R.R.	Reddy, C.V., School of Mechanical Engineering, Yeungnam University, Gyeongsan, 712-749, South Korea; Nagar, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Shetti, N.P., Department of Chemistry, School of Advanced Sciences, KLE Technological University, Vidyanagar, Karnataka, Hubballi, 580 031, India; Reddy, I.N., School of Mechanical Engineering, Yeungnam University, Gyeongsan, 712-749, South Korea; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shim, J., School of Mechanical Engineering, Yeungnam University, Gyeongsan, 712-749, South Korea; Kakarla, R.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Chemosphere	2023	456535
6858	A Novel Method for Authentication Using Chaotic Behaviour of Chua's Oscillator in (n,k) Secret Shared Data Scheme for Secure Communication	Sharma N., Kumar P., Rai S.K.	Sharma, N., Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Kumar, P., Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Rai, S.K., Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India	IEEE Transactions on Circuits and Systems I: Regular Papers	2023	15498328
6859	Physiotherapy-based human activity recognition using deep learning	Deotale D., Verma M., Suresh P., Kumar N.	Deotale, D., Department of Artificial Intelligence, G H Raisoni College of Engineering and Management, Pune, India; Verma, M., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Suresh, P., CIDRIE, Muthoot Institute of Technology and Science, Ernakulam, Kochi, India; Kumar, N., Department of Computer Science and Engineering, Thapar University Patiala Punjab and School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Chandigarh University, Gharuan, Mohali and Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	Neural Computing and Applications	2023	9410643
6860	Autism spectrum disorder prediction using bidirectional stacked gated recurrent unit with time-distributor wrapper: an EEG study	Wadhera T., Bedi J., Sharma S.	Wadhera, T., Indian Institute of Information Technology, Una, India; Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Neural Computing and Applications	2023	9410643
6861	Parameter adaptive unit-linking pulse coupled neural network based MRI-PET/SPECT image fusion	Panigrahy C., Seal A., Gonzalo-Martin C., Pathak P., Jalal A.S.	Panigrahy, C., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Seal, A., PDPM Indian Institute of Information Technology, Design and Manufacturing, Madhya Pradesh, Jabalpur, 482005, India; Gonzalo-Martin, C., Center for Biomedical Technology, Campus de Montegancedo, Universidad Politécnica de Madrid, Community of Madrid, Pozuelo de Alarcón, 28233, Spain; Pathak, P., GLA University, Uttar Pradesh, Mathura, 281406, India; Jalal, A.S., GLA University, Uttar Pradesh, Mathura, 281406, India	Biomedical Signal Processing and Control	2023	17468094
6862	A Systematic Review of Factors Affecting the Process Parameters and Various Measurement Techniques in Forging Processes	Sharma S., Sharma M., Gupta V., Singh J.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, J., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Steel Research International	2023	16113683

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6863	Intelligent Reflecting Surface Aided NOMA-HARQ Based IoT Framework for Future Wireless Networks	Sarkar D., Yadav S.S., Pal V., Yogita, Kumar N.	Sarkar, D., Nit Meghalaya, Department of Ece, Shillong, 793003, India; Yadav, S.S., Nit Meghalaya, Department of Ece, Shillong, 793003, India; Pal, V., Nit Meghalaya, Department of Cse, Shillong, 793003, India; Yogita, Nit Meghalaya, Department of Cse, Shillong, 793003, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, King Abdulaziz University, Faculty of Computing and It, Jeddah, 22254, Saudi Arabia, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102-2801, Lebanon	IEEE Transactions on Vehicular Technology	2023	189545
6864	Hybrid ensemble framework with self-attention mechanism for social spam detection on imbalanced data	Rao S., Verma A.K., Bhatia T.	Rao, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, A.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhatia, T., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Expert Systems with Applications	2023	9574174
6865	MAG-D: A multivariate attention network based approach for cloud workload forecasting	Patel Y.S., Bedi J.	Patel, Y.S., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bedi, J., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Future Generation Computer Systems	2023	0167739X
6866	An adaptive stochastic investigation of partial differential equations using wavelet collocation generalized polynomial chaos method	Kaur N., Goyal K.	Kaur, N., Department of Mathematics, Indian Institute of Technology, Uttarakhand, Roorkee, India, Department of Mathematics, Graphic Era Hill University, Uttarakhand, Dehradun, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Communications in Nonlinear Science and Numerical Simulation	2023	10075704
6867	Fusion of blockchain and IoT in scientific publishing: Taxonomy, tools, and future directions	Tanwar S., Ribadiya D., Bhattacharya P., Nair A.R., Kumar N., Jo M.	Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Ribadiya, D., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Bhattacharya, P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Nair, A.R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India, Department of Electrical and computer Engineering, Lebanese American University, Lebanon, King Abdul Aziz University, Jeddah, Saudi Arabia, University of Petroleum & Energy Studies, Dehradun, India; Jo, M., Department of Computer Convergence Software, Korea University, Seoul, South Korea	Future Generation Computer Systems	2023	0167739X
6868	Probabilistic physical modelling and prediction of regional seismic landslide hazard in Uttarakhand state (India)	Gupta K., Satyam N., Gupta V.	Gupta, K., Department of Civil Engineering, Indian Institute of Technology Indore, Madhya Pradesh, Indore, 453552, India; Satyam, N., Department of Civil Engineering, Indian Institute of Technology Indore, Madhya Pradesh, Indore, 453552, India; Gupta, V., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Landslides	2023	1612510X
6869	Weakly supervised prototype topic model with discriminative seed words: modifying the category prior by self-exploring supervised signals	Li X., Wang B., Wang Y., Ouyang J., Garg H., Thanh D.N.H.	Li, X., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Wang, B., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Wang, Y., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Ouyang, J., College of Computer Science and Technology, Jilin University, Changchun, China, Key Laboratory of Symbolic Computation and Knowledge Engineering of Ministry of Education, Jilin University, Changchun, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Thanh, D.N.H., Department of Information Technology, College of Technology and Design, University of Economics Ho Chi Minh City (UEH), Ho Chi Minh City, Viet Nam	Soft Computing	2023	14327643
6870	Performance prediction of DMUs using integrated DEA-SVR approach with imprecise data: application on Indian banks	Nishtha, Puri J., Setia G.	Nishtha, School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Puri, J., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Setia, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Soft Computing	2023	14327643
6871	Experimental investigation on mechanical and microstructural behaviour of GFRP elastomeric nanocomposites	Kamboj S., Sharma L., Chhibber R., Mehta R.	Kamboj, S., Engineering Division, Indian Railway, Haryana, Jagadhari, India; Sharma, L., University Centre of Research & Development, Chandigarh University, Punjab, Mohali, India; Chhibber, R., MED, Indian Institute of Technology-Jodhpur, Rajasthan, India; Mehta, R., Chemical Engineering Department, Thapar University, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
6872	An improved reversible data hiding method in encrypted domain for E-healthcare	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6873	A deep learning framework for copy-move forgery detection in digital images	Kaur N., Jindal N., Singh K.	Kaur, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
6874	An overview of violence detection techniques: current challenges and future directions	Mumtaz N., Ejaz N., Habib S., Mohsin S.M., Tiwari P., Band S.S., Kumar N.	Mumtaz, N., Department of Computer Science, Iqra University, Islamabad Campus, Islamabad, Pakistan; Ejaz, N., Department of Computer Science, Iqra University, Islamabad Campus, Islamabad, Pakistan; Habib, S., Department of Information Technology, College of Computer, Qassim University, Buraidah, 52571, Saudi Arabia; Mohsin, S.M., Department of Computer Science, COMSATS University, Islamabad, 45550, Pakistan; Tiwari, P., School of Information Technology, Halmstad University, Halmstad, Sweden; Band, S.S., Future Technology Research Center, National Yunlin University of Science and Technology, 123 University Road, Section 3, Yunlin, Douliou, 64002, Taiwan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed University), Patiala, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, King Abdul Aziz University, Jeddah, Saudi Arabia	Artificial Intelligence Review	2023	2692821
6875	GCWCN: 6G-Based Global Coverage Wireless Communication Network Architecture	Wang C., Zhang P., Kumar N., Liu L., Yang T.	Wang, C., China University of Petroleum, China, Xidian University, China; Zhang, P., China University of Petroleum, China, Xidian University, China; Kumar, N., Thapar Institute of Engineering & Technology, India, Asia University, University of Petroleum and Energy Studies, India; Liu, L., Asia University, University of Petroleum and Energy Studies, India, Xidian Guangzhou Institute of Technology, China; Yang, T., Peng Cheng Laboratory, China, Dalian Maritime University, China	IEEE Network	2023	8908044
6876	Blockchain-as-a-Service for Business Process Management: Survey and Challenges	Viriyasitavat W., Da Xu L., Dhiman G., Bi Z.	Viriyasitavat, W., Chulalongkorn University, Statistics, Bangkok, 10330, Thailand; Da Xu, L., Old Dominion University, Information Technology and Decision Sciences, Norfolk, VA 23529, United States; Dhiman, G., Thapar University, Computer Science and Engineering, Patiala, 147004, India; Bi, Z., Indiana University Purdue University at Fort Wayne, Department of Civil and Mechanical Engineering, Fort Wayne, IN 46805, United States	IEEE Transactions on Services Computing	2023	19391374
6877	Methods for Detecting COVID-19 Patients Using Interval-Valued T-Spherical Fuzzy Relations and Information Measures	Wang Y., Ullah K., Mahmood T., Garg H., Zedam L., Zeng S., Li X.	Wang, Y., College of Economic and Management, Nanjing University of Aeronautics and Astronautics, Nanjing, 211106, China; Ullah, K., Department of Mathematics, Riphah International University, Lahore Campus, Lahore, 54000, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Islamabad, 44000, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India; Zedam, L., Laboratory of Pure and Applied Mathematics, Department of Mathematics, Med Boudiaf University of Msila, Ichbilila, Msila, 28000, Algeria; Zeng, S., School of Business, Ningbo University, Ningbo, 315100, China; Li, X., Research Institute of Extenics and Innovation Methods, Guangdong University of Technology, Guangzhou, 510006, China	International Journal of Information Technology and Decision Making	2023	2196220
6878	The influence of human, organizational and relational capital of universities on their performance: a developing economy perspective	Chatterji N., Kiran R.	Chatterji, N., Amity Business School, Amity University Haryana, Gurugram, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Intellectual Capital	2023	14691930
6879	Vulnerability of CNNs against Multi-Patch Attacks	Sharma A., Bian Y., Nanda V., Munz P., Narayan A.	Sharma, A., University of British Columbia, Kelowna, BC, Canada; Bian, Y., University of Science and Technology of China, Anhui, Hefei, China; Nanda, V., Thapar Institute of Engineering and Technology, Patiala, India; Munz, P., TrojAI Inc., Saint John, NB, Canada; Narayan, A., Western University, London, ON, Canada	SaT-CPS 2023 - Proceedings of the 2023 ACM Workshop on Secure and Trustworthy Cyber-Physical Systems	2023	
6880	A review on recent advances and progress in Mo2C@C: A suitable and stable electrocatalyst for HER	Mir R.A., Upadhyay S., Pandey O.P.	Mir, R.A., Virginia Tech Centre of Excellence in Emerging Materials (VT-CEEMS), Thapar Institute of Engineering & Technology (TIET), Patiala, India, University of Toronto, Canada; Upadhyay, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, India, Division of Research & Innovation, Uttaranchal University, Dehradun, 248007, India; Pandey, O.P., Virginia Tech Centre of Excellence in Emerging Materials (VT-CEEMS), Thapar Institute of Engineering & Technology (TIET), Patiala, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, India	International Journal of Hydrogen Energy	2023	3603199
6881	Performance prognosis of FRMC-to-concrete bond strength using ANFIS-based fuzzy algorithm	Kumar A., Arora H.C., Kumar K., Garg H.	Kumar, A., AcSIR—Academy of Scientific and Innovative Research, Ghaziabad, 201002, India, Structural Engineering Department, CSIR—Central Building Research Institute, Roorkee, 247667, India; Arora, H.C., AcSIR—Academy of Scientific and Innovative Research, Ghaziabad, 201002, India, Structural Engineering Department, CSIR—Central Building Research Institute, Roorkee, 247667, India; Kumar, K., Department of Hydro and Renewable Energy, Indian Institute of Technology, Roorkee, 247667, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University) Patiala, 147004 Punjab, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan	Expert Systems with Applications	2023	9574174

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6882	Application of Taguchi design in optimization of performance and emissions characteristics of n-butanol/diesel/biogas under dual fuel mode	Goyal D., Goyal T., Mahla S.K., Goga G., Dhir A., Balasubramanian D., Hoang A.T., Wae-Hayee M., Josephin J.S.F., Sonthalia A., Varuvel E.G., Brindhadevi K.	Goyal, D., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Goyal, T., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Goga, G., Department of Mechanical Engineering, Bharat Group of Colleges, Sardulgarh, Punjab, Mansa, India; Dhir, A., School of Energy, TIET Patiala, India; Balasubramanian, D., Department of Mechanical Engineering, Mepco Schlenk Engineering College, Tamil Nadu, India, Mechanical Engineering, Faculty of Engineering, KhonKaen University, KhonKaen, Thailand, Center for Alternative Energy Research and Development, KhonKaen University, KhonKaen, Thailand; Hoang, A.T., Institute of Engineering, HUTECH University, Ho Chi Minh City, Viet Nam; Wae-Hayee, M., Department of Mechanical and Mechatronics Engineering, Faculty of Engineering, Prince of Songkla University, Hatyai, Songkhla, 90110, Thailand; Josephin, J.S.F., Department of Computer Engineering, Faculty of Engineering and Natural Sciences, Istinye University, Istanbul, Turkey; Sonthalia, A., Department of Automobile Engineering, SRM Institute of Science and Technology, NCR Campus, Modi Nagar 201204, India; Varuvel, E.G., Department of Mechanical Engineering, Faculty of Engineering and Natural Sciences, Istinye University, Istanbul, Turkey; Brindhadevi, K., Center for Transdisciplinary Research (CFTR), Department of Pharmacology, Saveetha Dental College, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, India	Fuel	2023	162361
6883	Deep Reinforcement Learning Algorithm for Latency-Oriented IIoT Resource Orchestration	Zhang P., Zhang Y., Kumar N., Hsu C.-H.	Zhang, P., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China, Xidian University, State Key Laboratory of Integrated Services Networks, Xi'an, 710071, China; Zhang, Y., China University of Petroleum (East China), College of Computer Science and Technology, Qingdao, 266580, China, Xidian University, State Key Laboratory of Integrated Services Networks, Xi'an, 710071, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, King Abdulaziz University, Faculty of Computing and Information Technology, Jeddah, 21589, Saudi Arabia, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon; Hsu, C.-H., Department of Computer Science and Information Engineering, Asia University, Taichung, 41354, Taiwan, China Medical University Hospital, China Medical University, Department of Medical Research, Taichung, 40402, Taiwan, School of Mathematics and Big Data, Foshan University, Guangdong-Hong Kong-Macao Joint Laboratory for Intelligent Micro-Nano Optoelectronic Technology, Foshan, 528000, China	IEEE Internet of Things Journal	2023	23274662
6884	Deformable patch-based-multi-layer perceptron Mixer model for forest fire aerial image classification	Mittal P., Sharma A., Singh R.	Mittal, P., University Institute of Engineering and Technology, Computer Science and Engineering Department, Chandigarh, India, Thapar University, Computer Science and Engineering Department, Patiala, India; Sharma, A., University Institute of Engineering and Technology, Computer Science and Engineering Department, Chandigarh, India; Singh, R., University of the West of Scotland, Cyber Security Department, Lanarkshire, United Kingdom	Journal of Applied Remote Sensing	2023	19313195
6885	ON SOME COMBINATORIAL INTERPRETATIONS FOR ROGERS-RAMANUJAN TYPE IDENTITIES	Gupta V., Rana M.	Gupta, V., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rana, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	South East Asian Journal of Mathematics and Mathematical Sciences	2023	9727752
6886	Effect of Goods and Service Tax System on Business Performance of Micro, Small and Medium Enterprises	Bhalla N., Sharma R.K., Kaur I.	Bhalla, N., Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Sharma, R.K., Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Kaur, I., Thapar Institute of Engineering and Technology, Deemed University, Patiala, India	SAGE Open	2023	21582440
6887	Difference approximation of positive linear operators on unit square	Grewal B.K., Rani M.	Grewal, B.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rani, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Maejo International Journal of Science and Technology	2023	19057873
6888	Temperature dependence of quasiparticle interference in d-wave superconductors	Al Rashid H., Goyal G., Akbari A., Singh D.K.	Al Rashid, H., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, G., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Akbari, A., Max Planck Institute for the Chemical Physics of Solids, Dresden, D-01187, Germany; Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	SciPost Physics Core	2023	26669366
6889	Quantification of Triacetin in a Mixture of Tri-, Di-, Monoacetin and Glycerol by qHNMR Technique	Abida K., Ali A.	Abida, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Affiliate Faculty: TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Analytical Chemistry	2023	10619348

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6890	Association of MLH1-93G>A polymorphisms toward lung cancer susceptibility and its association with clinical outcome in North Indian patients treated with platinum-based chemotherapy	Singh S., Singh N., Baranwal M., Sharma S.	Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research, Chandigarh, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Cancer Research and Therapeutics	2023	9731482
6891	Chemically Defined Lactobacillus plantarum Cell-Free Metabolites Demonstrate Cytoprotection in HepG2 Cells through Nrf2-Dependent Mechanism	Rezgui R., Walia R., Sharma J., Sidhu D., Alshagadali K., Ray Chaudhuri S., Saeed A., Dey P.	Rezgui, R., Department of Medical Laboratory Sciences, College of Applied Medical Sciences, University of Hail, Hail, 55473, Saudi Arabia, Medical and Diagnostic Research Centre, University of Hail, Hail, 55473, Saudi Arabia; Walia, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, , Punjab, Patiala, 147004, India; Sharma, J., Department of Biotechnology, Thapar Institute of Engineering and Technology, , Punjab, Patiala, 147004, India; Sidhu, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, , Punjab, Patiala, 147004, India; Alshagadali, K., Department of Medical Laboratory Sciences, College of Applied Medical Sciences, University of Hail, Hail, 55473, Saudi Arabia, Medical and Diagnostic Research Centre, University of Hail, Hail, 55473, Saudi Arabia; Ray Chaudhuri, S., Council of Scientific and Industrial Research (CSIR), Institute of Microbial Technology, Chandigarh, 160036, India; Saeed, A., Department of Medical Laboratory Sciences, College of Applied Medical Sciences, University of Hail, Hail, 55473, Saudi Arabia, Medical and Diagnostic Research Centre, University of Hail, Hail, 55473, Saudi Arabia; Dey, P., Department of Medical Microbiology, Faculty of Medical Laboratory Sciences, University of Medical Sciences & Technology, Khartoum, 12810, Sudan; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, , Punjab, Patiala, 147004, India	Antioxidants	2023	20763921
6892	Examining the Relationship between Entrepreneurial Perceived Behaviour, Intentions, and Competencies as Catalysts for Sustainable Growth: An Indian Perspective	Malhotra S., Kiran R.	Malhotra, S., School of Humanities and Social Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kiran, R., School of Humanities and Social Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sustainability (Switzerland)	2023	20711050
6893	Parameter Estimation of Fuel Cells Using a Hybrid Optimization Algorithm	Singla M.K., Gupta J., Singh B., Nijhawani P., Abdelaziz A.Y., El-Shahat A.	Singla, M.K., Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Rajpura, 140401, India; Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, B., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Nijhawani, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Abdelaziz, A.Y., Faculty of Engineering and Technology, Future University in Egypt, Cairo, 11835, Egypt; El-Shahat, A., Energy Technology Program, School of Engineering Technology, Purdue University, West Lafayette, IN 47907, United States	Sustainability (Switzerland)	2023	20711050
6894	Exploring Factors of HR Climate and Their Influence on Faculty Retention: Unfolding HRM in Indian Higher Educational Settings	Verma S., Kaur G.	Verma, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, G., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	SAGE Open	2023	21582440
6895	A Multimodal Feature Fusion Framework for Sleep-Deprived Fatigue Detection to Prevent Accidents	Virk J.S., Singh M., Panjwani U., Ray K.	Virk, J.S., EIE Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, M., EIE Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, M., EIE Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Panjwani, U., DIPAS, Defence Research and Development Organisation, Delhi, 110054, India; Ray, K., DIPAS, Defence Research and Development Organisation, Delhi, 110054, India	Sensors	2023	14248220
6896	Highly Effectual Photocatalytic Remediation of Tetracycline under the Broad Spectrum of Sunlight by Novel BIVO4/Sb2S3 Nanocomposite	Singla S., Devi P., Basu S.	Singla, S., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, P., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Catalysts	2023	20734344
6897	Fusion dynamics of spherical and deformed projectiles with hexadecapole deformed target nuclei	Sharma H., Jain S., Amritpal, Kumar R., Sharma M.K.	Sharma, H., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Jain, S., Department of Physics and Astronomical Sciences, Central University of Jammu, J &K, Samba, 181143, India; Amritpal, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	European Physical Journal A	2023	14346001

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6898	Shapley-Value-Based Hybrid Metaheuristic Multi-Objective Optimization for Energy Efficiency in an Energy-Harvesting Cognitive Radio Network	Bakshi S., Sharma S., Khanna R.	Bakshi, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147005, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147005, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147005, India	Mathematics	2023	22277390
6899	Programmed Out-of-Plane Curvature to Enhance Multimodal Stiffness of Bending-Dominated Composite Lattices	Tiwari P., Naskar S., Mukhopadhyay T.	Tiwari, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Naskar, S., University of Southampton, Southampton, SO17 1BJ, United Kingdom; Mukhopadhyay, T., University of Southampton, Southampton, SO17 1BJ, United Kingdom	AIAA Journal	2023	11452
6900	Impact of Personality Traits on Communication Effectiveness of Teachers: Exploring the Mediating Role of Their Communication Style	Dhillon N., Kaur G.	Dhillon, N., Thapar Institute of Engineering and Technology (T.I.E.T), Punjab, Patiala, India; Kaur, G., Thapar Institute of Engineering and Technology (T.I.E.T), Punjab, Patiala, India	SAGE Open	2023	21582440
6901	Storage stability performance of composite modified asphalt with scrap non-tire automotive rubber, waste plastic pyrolytic oil and sulfur	Kumar A., Choudhary R., Kumar A.	Kumar, A., Department of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, India; Choudhary, R., Department of Civil Engineering, Indian Institute of Technology Guwahati, Assam, Guwahati, India; Kumar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	PLoS ONE	2023	19326203
6902	EEG-Based Emotion Classification in Financial Trading Using Deep Learning: Effects of Risk Control Measures	Tripathi B., Sharma R.K.	Tripathi, B., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, R.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Sensors	2023	14248220
6903	Large group decision-making based on interval rough integrated cloud model	Jiang J., Liu X., Garg H., Zhang S.	Jiang, J., School of Microelectronics & Data Science, Anhui University of Technology, Anhui, Ma'anshan, 243002, China; Liu, X., School of Microelectronics & Data Science, Anhui University of Technology, Anhui, Ma'anshan, 243002, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Zhang, S., School of Microelectronics & Data Science, Anhui University of Technology, Anhui, Ma'anshan, 243002, China	Advanced Engineering Informatics	2023	14740346
6904	Construction of Bis-Indole Derivatives Using α -Amylase Enzyme: Application in the Gram-Scale Synthesis of Bis-Indole Containing Bioactive Molecules	Kamboj P., Tyagi V.	Kamboj, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India	Asian Journal of Organic Chemistry	2023	21935807
6905	Deep learning based whale detection from satellite imagery	Kapoor S., Kumar M., Kaushal M.	Kapoor, S., University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Kumar, M., University Institute of Engineering and Technology, Panjab University, Chandigarh, India; Kaushal, M., Computer Science and Engineering Department (DB Campus), Thapar Institute of Engineering and Technology, Patiala, India	Sustainable Computing: Informatics and Systems	2023	22105379
6906	Multiobjective Symmetric Duality in Higher-Order Fractional Variational Programming	Kaur A., Sharma M.K., Ahmad I.	Kaur, A., P.G. Department of Mathematics, MCM DAV College for Women, Chandigarh, 160036, India; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ahmad, I., Department of Mathematics, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia	Asia-Pacific Journal of Operational Research	2023	2175959
6907	Behavior of corrosion damaged non-seismically and seismically detailed reinforced concrete beam-column sub-assemblages under cyclic loading	Dangwal S., Singh H.	Dangwal, S., Research Scholar, Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, H., Research Scholar, Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Engineering Failure Analysis	2023	13506307
6908	Mutational analysis of catalytic site domain of CCHFV L RNA segment	Kaushal N., Baranwal M.	Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Molecular Modeling	2023	16102940
6909	A compact two-state pattern reconfigurable antenna for 5G Sub-6 GHz cellular applications	Kaur M., Shankar Singh H., Agarwal M.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala 147 004, India; Shankar Singh, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala 147 004, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala 147 004, India	AEU - International Journal of Electronics and Communications	2023	14348411

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6910	Combined empirical mode decomposition and phase space reconstruction based psychologically stressed and non-stressed state classification from cardiac sound signals	Cheema A., Singh M., Kumar M., Setia G.	Cheema, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, M., Department of Engineering Cybernetics, Norwegian University of Science and Technology, Trondheim, Norway; Setia, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Biomedical Signal Processing and Control	2023	17468094
6911	Performance Analysis of a Lightweight Robust Chaotic Image Re-encryption Scheme for 5G Heterogeneous Networks	Kakkar A., Singh M.	Kakkar, A., T.I.E.T, Punjab, Patiala, India; Singh, M., Chitkara University Institute and Engineering and Technology, Chitkara University, Punjab, Rajpura, India	Wireless Personal Communications	2023	9296212
6912	A Comparative Study of ZnS-ZnO Nanocomposite Assembly for Photocatalytic Removal of Crystal Violet Dye	Gupta A., Kaur J., Pandey O.P.	Gupta, A., Department of Mechanical Engineering, GLA University, UP, Mathura, 281406, India, Functional Materials Lab, School of Physics and Materials Sciences, Thapar Institute of engineering and Technology, Punjab, Patiala, 147004, India; Kaur, J., Functional Materials Lab, School of Physics and Materials Sciences, Thapar Institute of engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Sciences, Thapar Institute of engineering and Technology, Punjab, Patiala, 147004, India	Physica Status Solidi (A) Applications and Materials Science	2023	18626300
6913	An area-delay efficient single-precision floating-point multiplier for VLSI systems	Anuradha, Patel S.K., Singhal S.K.	Anuradha, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Patel, S.K., Thapar Institute of Engineering and Technology Patiala, Punjab, India; Singhal, S.K., Jaypee University of Engineering and Technology, M.P., Guna, India	Microprocessors and Microsystems	2023	1419331
6914	Membrane Proteins in Plant Salinity Stress Perception, Sensing, and Response	Banik S., Dutta D.	Banik, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dutta, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Membrane Biology	2023	222631
6915	Failure mechanism during incremental sheet forming of a commercial purity aluminum alloy	Kumar A., Mehtani H.K., Shrivastava A., Mishra S., Narasimhan K., Samajdar I.	Kumar, A., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Mehtani, H.K., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shrivastava, A., Department of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Mishra, S., Department of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Narasimhan, K., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Samajdar, I., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India	Engineering Failure Analysis	2023	13506307
6916	One-pot synthesis of carbon-supported MoO ₂ nanoparticles for efficient oxygen evolution reaction	Pundir S., Upadhyay S., Priya R., Tanwar N., Sharma P., Pandey O.P.	Pundir, S., Department of Physics, Chandigarh University, Mohali, Punjab140413, India; Upadhyay, S., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology (TIET), Punjab, Patiala, 147004, India, Division of Research and Innovation, Uttaranchal University, Premnagar, Dehradun, 248007, India; Priya, R., Department of Physics, Chandigarh University, Mohali, Punjab140413, India; Tanwar, N., Department of Physics, Chandigarh University, Mohali, Punjab140413, India; Sharma, P., TIET-VT Centre for Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Materials Science, Thapar Institute of Engineering & Technology (TIET), Punjab, Patiala, 147004, India	Materials Chemistry and Physics	2023	2540584
6917	Mechanical Properties of Open-Graded Asphalt Friction Course Mixtures with Basic Oxygen Furnace Steel Slag as Coarse Aggregates	Pathak S., Choudhary R., Kumar A., Kumar B.	Pathak, S., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, 781039, India; Choudhary, R., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, 781039, India; Kumar, A., Dept. of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, B., Dept. of Civil Engineering, Indian Institute of Technology Guwahati, Assam, 781039, India	Journal of Materials in Civil Engineering	2023	8991561
6918	Deep learning based physical layer security for terrestrial communications in 5G and beyond networks: A survey	Sharma H., Kumar N.	Sharma, H., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies Dehradun, Uttarakhand, India, Department of Electrical and computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	Physical Communication	2023	18744907
6919	DyPARK: A Dynamic Pricing and Allocation Scheme for Smart On-Street Parking System	Saharan S., Kumar N., Bawa S.	Saharan, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon, King Abdulaziz University, Faculty of Computing and It, Jeddah, 21589, Saudi Arabia; Bawa, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India	IEEE Transactions on Intelligent Transportation Systems	2023	15249050

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6920	A meta-heuristic-based energy efficient route modeling for EVs integrating start/stop and recapturing energy effect	Kumar A., Kumar R., Aggarwal A., Bedi J.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar, R., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Aggarwal, A., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Bedi, J., Computer Science and Engineering Department, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Sustainable Cities and Society	2023	22106707
6921	Interconnected CuO nanoplates as a highly efficient electrocatalyst for oxygen evolution reaction	Pundir S., Upadhyay S., Kumar N., Chandra Joshi N., Priya R., Ahmad Mir R., Hossain I., Pandey O.P.	Pundir, S., Chandigarh University, Chandigarh, India; Upadhyay, S., Division of Research and Innovation, Uttaranchal University, Dehradun, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Division of Research and Innovation, Uttaranchal University, Dehradun, India; Chandra Joshi, N., Division of Research and Innovation, Uttaranchal University, Dehradun, India; Priya, R., Chandigarh University, Chandigarh, India; Ahmad Mir, R., University of British Columbia, Canada; Hossain, I., School of Natural Sciences and Mathematics, Ural Federal University, Yekaterinburg, 620000, Russian Federation; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Materials Letters	2023	0167577X
6922	Visible light-responsive photocatalytic-based sustainable construction material for environmental remediation	Tiwari S., Kumar A., Kaur G.	Tiwari, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Ceramics International	2023	2728842
6923	ZnFe2O4 Nanoparticles Supported on Graphene Nanosheets for High-Performance Supercapacitor	Lakra R., Mahender C., Singh B.K., Kumar R., Kumar S., Sahoo P.K., Thatoi D., Soam A.	Lakra, R., Department of Mechanical Engineering, Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, India; Mahender, C., Srichaitanya Educational Institutions, Karimnagar, India; Singh, B.K., Centre for Advanced Materials Research, University of Texas at El Paso, El Paso, United States; Kumar, R., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India; Kumar, S., Department of Electromechanical, Systems and Metal Engineering and Center for Molecular Modeling (CMM), Ghent University, Ghent, Belgium; Sahoo, P.K., Department of Mechanical Engineering, Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, India; Thatoi, D., Department of Mechanical Engineering, Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, India; Soam, A., Department of Mechanical Engineering, Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, India	Journal of Electronic Materials	2023	3615235
6924	Lanthanide loaded dopamine modified spinel nanoferrites: Novel photocatalyst with enhanced catalytic activity	Malik R., Garg T., Kumar V., Tikoo K.B., Chudasama B., Singhal S.	Malik, R., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Garg, T., Department of Chemistry, Panjab University, Chandigarh, 160014, India; Kumar, V., HR-TEM Facility Lab, National Institute of Pharmaceutical Education and Research, (NIPER), SAS Nagar, Punjab160062, India; Tikoo, K.B., HR-TEM Facility Lab, National Institute of Pharmaceutical Education and Research, (NIPER), SAS Nagar, Punjab160062, India; Chudasama, B., School of Physics & Materials Science, Thapar University, Patiala, 147004, India; Singhal, S., Department of Chemistry, Panjab University, Chandigarh, 160014, India	Journal of Sol-Gel Science and Technology	2023	9280707
6925	PKLMP based control technique for improving performance of multifunctional grid integrated PV system	Pattnaik M., Badoni M., Tatte Y.	Pattnaik, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Badoni, M., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tatte, Y., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Electric Power Systems Research	2023	3787796
6926	Speed control of sensorless PMSM drive using adaptive current control prediction technique	Pindoriya R.M., Tejan K.V., Rajpurohit B.S.	Pindoriya, R.M., Thapar Institute of Engineering and Technology, Patiala, India; Tejan, K.V., Indian Institute of Technology Mandi, Mandi, India; Rajpurohit, B.S., Indian Institute of Technology Mandi, Mandi, India	Electrical Engineering	2023	9487921
6927	Blockchain-Enabled Secure Big Data Analytics for Internet of Things Smart Applications	Tekchandani P., Pradhan I., Das A.K., Kumar N., Park Y.	Tekchandani, P., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Pradhan, I., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Das, A.K., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102 2801, Lebanon, Faculty of Computing and It, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Park, Y., School of Electronics Engineering, Kyungpook National University, Daegu, 41566, South Korea	IEEE Internet of Things Journal	2023	23274662
6928	Blockchain-Based Co-Operative Caching for Secure Content Delivery in CCN-Enabled V2G Networks	Miglani A., Kumar N.	Miglani, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, PB, Patiala, 147004, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, PB, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, UK, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102-2801, Lebanon, King AbdulAziz University, Faculty of Computing and It, Jeddah, 22254, Saudi Arabia	IEEE Transactions on Vehicular Technology	2023	189545

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6929	FIMBISAE: A Multimodal Biometric Secured Data Access Framework for Internet of Medical Things Ecosystem	Ahmed T., Samima S., Zuhair M., Ghayvat H., Khan M.A., Kumar N.	Ahmed, T., Mahindra University, Department of Computer Science and Engineering, Hyderabad, 500043, India; Samima, S., Mahindra University, Department of Computer Science and Engineering, Hyderabad, 500043, India; Zuhair, M., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Ahmedabad, 382481, India; Ghayvat, H., Technology University of Denmark, Innovation Department, Copenhagen, 2800, Denmark, Linnaeus University, Faculty of Technology, Computer Science Department, Växjö, 351 95, Sweden; Khan, M.A., Stanford University School of Medicine, Department of Neurology and Neurological Sciences, Stanford, CA 94305, United States; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102 2801, Lebanon, Faculty of Computing and It, King Abdul Aziz University, Jeddah, 21589, Saudi Arabia	IEEE Internet of Things Journal	2023	23274662
6930	Semi-supervised learning with dropouts	Abhishek, Yadav R.K., Verma S.	Abhishek, AI Operations, Accenture, Bengaluru, Karnataka, India; Yadav, R.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Verma, S., Department of Information Technology, Indian Institute of Information Technology Allahabad, U.P., Prayagraj, India	Expert Systems with Applications	2023	9574174
6931	Design and analysis of DDoS mitigating network architecture	Swati, Roy S., Singh J., Mathew J.	Swati, Department of Electrical Engineering, Indian Institute of Technology Patna, Bihar, Patna, India; Roy, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Department of Electrical Engineering, Indian Institute of Technology Patna, Bihar, Patna, India; Mathew, J., Department of Computer Science, Indian Institute of Technology Patna, Bihar, Patna, India	International Journal of Information Security	2023	16155262
6932	A Novel Single/Multiple Output Multilevel Buck Rectifier for EV-Battery Charging	Jain A., Gupta K.K., Jain S.K.	Jain, A., Thapar Institute of Engineering and Technology, Eied, Patiala, 147004, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Eied, Patiala, 147004, India	IEEE Transactions on Vehicular Technology	2023	189545
6933	Parametric Study of the Spark Plasma Sintering Process on the Mechanical Properties of Multi-Layer Graphene Reinforced Ti6Al4V Nanocomposites	Sharma D., Kumar V., Singh S.	Sharma, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Transactions of the Indian Institute of Metals	2023	9722815
6934	Numerical investigation on thermal-hydraulic performance of air preheater equipped with helical inserts	Kumar A., Zainith P., Sharma A., Mishra N.K.	Kumar, A., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, India; Zainith, P., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, India; Sharma, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, N.K., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
6935	Effect of welding parameters on bead characteristics and mechanical properties of wire and arc additive manufactured inconel 718	Kumar P., Singh R.K.R., Sharma S.K.	Kumar, P., Thapar Institute of Engineering & Technology, Patiala, India; Singh, R.K.R., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S.K., Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
6936	Effective electrocardiogram steganography for secured patient information transmission based on most significant bit planes prediction	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6937	Smart parking space detection under hazy conditions using convolutional neural networks: a novel approach	Satyanath G., Sahoo J.K., Roul R.K.	Satyanath, G., Department of Electrical & Computer Engineering, Carnegie Mellon University, Pittsburgh, PA, United States; Sahoo, J.K., Department of Mathematics, BITS Pilani K K Birla Goa Campus, Goa, India; Roul, R.K., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
6938	Hybrid organization deconstructed: A bibliographic investigation into the origins, development, and future of the research domain	Kumar Hota P., Manoharan B., Rakshit K., Panigrahi P.	Kumar Hota, P., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, Research School of Management, The Australian National University, Canberra, ACT 0200, Australia; Manoharan, B., Masters' Union, Haryana, Gurugram, 122008, India; Rakshit, K., Marketing Department, ICN ARTEM Business School, Nancy, 54000, France; Panigrahi, P., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	International Journal of Management Reviews	2023	14608545
6939	A computationally efficient CO continuous finite element model for thermo-mechanical analysis of cross-ply and angle-ply composite plates in non-polynomial axiomatic framework	Joshan Y.S., Soni A., Grover N.	Joshan, Y.S., Department of Applied Mechanics, Indian Institute of Technology Delhi, New Delhi, India; Soni, A., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Strain Analysis for Engineering Design	2023	3093247

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6940	Determination of friction factor and heat transfer rate in laminar flow in an agitated vessel	Ansar Ali S.K., Kumar P., Sharma V.K., Akhai S., Kumar V., Joshi R.S.	Ansar Ali, S.K., Department of Mechanical Engineering, SHIATS-DU, Uttar Pradesh, Allahabad, Meerut, India; Kumar, P., Department of Mechanical Engineering, Chandigarh Engineering College Jhanjeri Mohali, Punjab, Chandigarh, India; Sharma, V.K., Department of Mechanical Engineering, IIMT University, Uttar Pradesh, Meerut, India, Thapar Institute of Engineering and Technology, Patiala, India; Akhai, S., Department of Mechanical Engineering, Chandigarh Engineering College Jhanjeri Mohali, Punjab, Chandigarh, India; Kumar, V., Thapar Institute of Engineering and Technology, Patiala, India; Joshi, R.S., Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
6941	Security enhancement in cellular networks employing D2D friendly jammer for V2V communication	Kumar J.S., Gupta A., Tanwar S., Kumar N., Akleyek S.	Kumar, J.S., Department of Electronics and Communication Engineering, Mepco Schlenk Engineering College, Tamil Nadu, Sivakasi, India; Gupta, A., School of Electronics and Electrical Engineering, Lovely Professional University, Punjab, Phagwara, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Kumar, N., Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Akleyek, S., Department of Computer Engineering, Ondokuz Mayıs University, Samsun, Turkey	Cluster Computing	2023	13867857
6942	SecGreen: Secrecy Ensured Power Optimization Scheme for Software-Defined Connected IoV	Chaudhary R., Kumar N.	Chaudhary, R., Department of Mathematics and Computer Science, Karlstad University, Värmland, Karlstad, 65188, Sweden; Kumar, N., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, School of Computer Science and Information Engineering, Asia University, Taichung, 413, Taiwan, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, 248007, India	IEEE Transactions on Mobile Computing	2023	15361233
6943	A comprehensive survey on machine translation for English, Hindi and Sanskrit languages	Sitender, Bawa S., Kumar M., Sangeeta	Sitender, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Information Technology, Maharaja Surajmal Institute of Technology, New Delhi, 110058, India; Bawa, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Department of Computational Sciences, Maharaja Ranjit Singh Punjab Technical University, Punjab, Batinda, 151001, India; Sangeeta, Department of Information Technology, Maharaja Surajmal Institute of Technology, New Delhi, 110058, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
6944	Fog Computing for 5G-Enabled Tactile Internet: Research Issues, Challenges, and Future Research Directions	Aggarwal S., Kumar N.	Aggarwal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Mobile Networks and Applications	2023	1383469X
6945	Nonlinear kernel based feature maps for blur-sensitive unsharp masking of JPEG images	Bhattacharya J., Marsi S., Ramponi G.	Bhattacharya, J., Thapar Institute of Engineering and Technology, Patiala, India; Marsi, S., DIA, University of Trieste, Friuli-Venezia Giulia, Trieste, Italy; Ramponi, G., DIA, University of Trieste, Friuli-Venezia Giulia, Trieste, Italy	IET Image Processing	2023	17519659
6946	Rake-shaped microstrip sensors with high spatial resolution for analyzing liquid food quality	Nitika, Kaur J., Khanna R.	Nitika, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Microwave and Wireless Technologies	2023	17590787
6947	Associated probabilities aggregations in multistage investment decision-making	Sirbiladze G., Garg H., Khutsishvili I., Ghvaberidze B., Midodashvili B.	Sirbiladze, G., Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Khutsishvili, I., Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia; Ghvaberidze, B., Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia; Midodashvili, B., Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia	Kybernetes	2023	0368492X
6948	Guest editorial: Preface to the special issue on the neutrosophical approach: applications in management decision and organizational research methods	Edalatpanah S.A., Smarandache F., Garg H.	Edalatpanah, S.A., Department of Applied Mathematics, Ayandegan Institute of Higher Education, Tonekabon, Iran; Smarandache, F., University of New Mexico, Albuquerque, NM, United States; Garg, H., Thapar Institute of Engineering and Technology, Deemed University, Patiala, India	Management Decision	2023	251747
6949	Multi-criteria group decision-making algorithm based on single-valued neutrosophic Einstein prioritized aggregation operators and its applications	Farid H.M.A., Garg H., Riaz M., Santos-García G.	Farid, H.M.A., Department of Mathematics, University of the Punjab, Lahore, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Patiala, India; Riaz, M., Department of Mathematics, University of the Punjab, Lahore, Pakistan; Santos-García, G., Department of Economics and Economic History, University of Salamanca, Salamanca, Spain	Management Decision	2023	251747

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6950	DEVELOPMENT OF MACHINE LEARNING BASED EMPIRICAL MODEL FOR ESTIMATION OF SOLAR RADIATION	Mishra S., Pandey D., Bhardwaj S., Choudhary A.	Mishra, S., Dept. of Electronics & Communication Engineering, Amity School of Engineering & Technology, Amity University, Lucknow Campus, Uttar Pradesh226010, India; Pandey, D., Dept. of Electronics & Communication Engineering, Amity School of Engineering & Technology, Amity University, Lucknow Campus, Uttar Pradesh226010, India; Bhardwaj, S., Dept. of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Thapar University, Punjab, Patiala, 147001, India; Choudhary, A., Dept. of Electronics and Communication Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Karnataka, Bengaluru, 560035, India	Journal of Theoretical and Applied Information Technology	2023	19928645
6951	Thermal evolution of the single-particle spectral function in the half-filled Hubbard model and pseudogap	Rashid H.A., Singh D.K.	Rashid, H.A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, D.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physical Review B	2023	24699950
6952	Experimental and theoretical investigation into effectiveness of ZnO based transparent heat mirror covers in mitigating thermal losses in volumetric absorption based solar thermal systems	Singh N., Khullar V.	Singh, N., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Mechanical Engineering Department, Chandigarh University, Gharuan, Punjab, Mohali, 140413, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Solar Energy	2023	0038092X
6953	Hybrid integrated decision-making algorithm for clustering analysis based on a bipolar complex fuzzy and soft sets	Gwak J., Garg H., Jan N.	Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of AI Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of IT & Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Jan, N., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea	Alexandria Engineering Journal	2023	11100168
6954	MOCRAW: A Meta-heuristic Optimized Cluster head selection based Routing Algorithm for WSNs	Chaurasia S., Kumar K., Kumar N.	Chaurasia, S., Department of Computer Science and Engineering, National Institute of Technology Uttarakhand, India; Kumar, K., Department of Computer Science and Engineering, National Institute of Technology Uttarakhand, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	Ad Hoc Networks	2023	15708705
6955	Schweizer-Sklar prioritized aggregation operators for intuitionistic fuzzy information and their application in multi-attribute decision-making	Garg H., Ali Z., Mahmood T., Ali M.R., Alburaikan A.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; Ali, M.R., Center of Research, Faculty of Engineering and Technology, Future University in Egypt New Cairo11835, Egypt; Alburaikan, A., Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya, 51951, Saudi Arabia	Alexandria Engineering Journal	2023	11100168
6956	Secure Smart Healthcare Framework Using Lightweight DNA Sequence and Chaos for Mobile-Edge Computing	Singh A., Chatterjee K., Singh A.K., Kumar N.	Singh, A., Kalinga Institute of Industrial Technology, School of Computer Engineering, Bhubaneswar, 751024, India; Chatterjee, K., National Institute of Technology Patna, Department of Computer Science and Engineering, Patna, 800005, India; Singh, A.K., National Institute of Technology Patna, Department of Computer Science and Engineering, Patna, 800005, India; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India	IEEE Internet of Things Journal	2023	23274662
6957	Construction of a Bifunctional Pd(0)-CALB@SiO2 Hybrid Catalyst for the Synthesis and Arylation of Imidazo[1,2-a]pyridine in One Pot	Budhiraja M., Ali A., Tyagi V.	Budhiraja, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Ali, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India, Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India, Center of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India	European Journal of Organic Chemistry	2023	1434193X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6958	Use of raw sugarcane molasses as a partial replacement of asphalt binder: An experimental investigation	Saboo N., Sukhija M., Mehta D., Haswanth K., Srivastava A., Patil A.	Saboo, N., Department of Civil Engineering, Indian Institute of Technology Roorkee, India; Sukhija, M., School of Civil and Construction Engineering, Oregon State University, Oregon, United States; Mehta, D., Department of Civil Engineering, Indian Institute of Technology Roorkee, India; Haswanth, K., Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology Surat, India; Srivastava, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Patil, A., Department of Civil Engineering, Indian Institute of Technology Roorkee, India	Construction and Building Materials	2023	9500618
6959	Potential utility of BIOX photocatalysts and their design/modification strategies for the optimum reduction of CO2	Sun Y., Younis S.A., Kim K.-H., Kumar V.	Sun, Y., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04673, South Korea; Younis, S.A., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04673, South Korea, Analysis and Evaluation Department, Egyptian Petroleum Research Institute (EPRI), Cairo, Nasr City, 11727, Egypt; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04673, South Korea; Kumar, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Science of the Total Environment	2023	489697
6960	FWM suppression in radio over fiber systems using optical phase conjugation and band pass filter	Gupta H., Singh H., Kaur G., Kaur M.	Gupta, H., Faculty, Thapar Institute of Engg. & Technology, India; Singh, H., Faculty, Thapar Institute of Engg. & Technology, India; Kaur, G., Faculty, Thapar Institute of Engg. & Technology, India; Kaur, M., Faculty, Thapar Institute of Engg. & Technology, India, Faculty, CSED, Desh Bhagat Univ, India	Optoelectronics and Advanced Materials, Rapid Communications	2023	18426573
6961	Metaverse-Inspired Cybertwin-Based Space-Air-Ground Integrated Networks	Wang C., Zhao L., Fan C., Zhao K., Kumar N., Li J., Wan S.	Wang, C., Shenyang Aerospace University, China; Zhao, L., Shenyang Aerospace University, China; Fan, C., Shenyang Aerospace University, China; Zhao, K., Nanjing University, China; Kumar, N., Thapar Institute of Engineering and Technology, India; Li, J., Shenyang Aerospace University, China; Wan, S., University of Electronic Science and Technology of China, China	IEEE Network	2023	8908044
6962	Performance Study of Mustard Oil Bio-diesel Blend in a Single Cylinder 4-stroke Diesel Engine	Chaudhary S., Kumar P., Dangi S.	Chaudhary, S., Department of Mechanical Engineering, TIET, Patiala, India; Kumar, P., Department of Mechanical Engineering, UIET, MDU, Rohtak, India; Dangi, S., Production & Industrial Engineering Department, PEC, Chandigarh, India	Evergreen	2023	21890420
6963	Experimental Investigation and Statistical Modelling of Cutting Force and Torque During Rotary Ultrasonic Drilling of Polyetherimide Composite	Shard A., Garg M.P., Gupta V.	Shard, A., Department of Mechanical Engineering, DAV University Jalandhar, Punjab, India; Garg, M.P., Mechanical Engineering Department, Punjab Engineering College (Deemed to be University), Chandigarh, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India	Strength of Materials	2023	392316
6964	Markov Matrix and Entropy based Tamper Detection Technique for Text Images	Singh B., Sharma M.K.	Singh, B., Computer Science and Engineering Department, School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, M.K., Computer Science and Engineering Department, School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Engineering Research (Kuwait)	2023	23071885
6965	Enhancing Interval-Valued Pythagorean Fuzzy Decision-Making through Dombi-Based Aggregation Operators	Alhamzi G., Javaid S., Shuaib U., Razaq A., Garg H., Razaque A.	Alhamzi, G., Department of Mathematics and Statistics, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, 11564, Saudi Arabia; Javaid, S., Department of Mathematics, Government College University, Faisalabad, 38000, Pakistan; Shuaib, U., Department of Mathematics, Government College University, Faisalabad, 38000, Pakistan; Razaq, A., Department of Mathematics, Division of Science and Technology, University of Education, Lahore, 54770, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, 42351, Iraq; Razaque, A., Department of Basic Sciences, Deanship of Preparatory Year, King Faisal University, Al Ahsa Hofuf, 31982, Saudi Arabia	Symmetry	2023	20738994
6966	A Detailed Study of Mathematical Rings in q-Rung Orthopair Fuzzy Framework	Razaque A., Razaq A., Alhamzi G., Garg H., Faraz M.I.	Razaque, A., Department of Basic Sciences, Deanship of Preparatory Year, King Faisal University, Al Ahsa Hofuf, 31982, Saudi Arabia; Razaq, A., Department of Mathematics, Division of Science and Technology, University of Education, Lahore, 54770, Pakistan; Alhamzi, G., Department of Mathematics and Statistics, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, 11564, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, 54001, Iraq; Faraz, M.I., College of Mechanical Engineering, King Faisal University, Al-Ahsa Hofuf, 31982, Saudi Arabia	Symmetry	2023	20738994
6967	Frequency Stabilization in an Interconnected Micro-Grid Using Smell Agent Optimization Algorithm-Tuned Classical Controllers Considering Electric Vehicles and Wind Turbines	Vishnoi S., Nikolovski S., Raju M., Kirar M.K., Rana A.S., Kumar P.	Vishnoi, S., Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering, Computer Science and Information Technology, J. J. Strossmayer University of Osijek, K. Trpimira 2B, Osijek, HR-31000, Croatia; Raju, M., Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Kirar, M.K., Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Rana, A.S., Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli, Tiruchirappalli, 620015, India; Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2023	19961073

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6968	Convergence Analysis for Generalized Yosida Inclusion Problem with Applications	Akram M., Dilshad M., Khan A., Chandok S., Ahmad I.	Akram, M., Department of Mathematics, Faculty of Science, Islamic University of Madinah, Madinah, 42351, Saudi Arabia; Dilshad, M., Department of Mathematics, Faculty of Science, University of Tabuk, P.O. Box 4279, Tabuk, 71491, Saudi Arabia; Khan, A., Department of Mathematics, College of Arts and Science, Prince Sattam Bin Abdulaziz University, Wadi-Ad-Dwasir, Al-Kharj, 11991, Saudi Arabia; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Ahmad, I., Department of Mathematics, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia, Center for Intelligent Secure Systems, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia	Mathematics	2023	22277390
6969	Determination of 1p- and 2p-stripping excitation functions for 16 O+ 142 Ce using a recoil mass spectrometer	Biswas R., Nath S., Gehlot J., Gonika, Kumar C., Parihari A., Madhavan N., Vinayak A., Mahato A., Noor S., Sherpa P., Sekizawa K.	Biswas, R., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India, Life Science Division, Diamond Light Source Ltd., Diamond House, Harwell Science and Innovation Campus, Oxfordshire, Didcot, OX11 0DE, United Kingdom; Nath, S., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gehlot, J., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gonika, Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kumar, C., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Parihari, A., Department of Physics and Astrophysics, Delhi University, Delhi, 110007, India; Madhavan, N., Nuclear Physics Group, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Vinayak, A., Department of Physics, Karnatak University, Dharwad, 580003, India; Mahato, A., Department of Physics, Central University of Jharkhand, Ranchi, 835205, India; Noor, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sherpa, P., Department of Physics and Astrophysics, Delhi University, Delhi, 110007, India; Sekizawa, K., Department of Physics, School of Science, Tokyo Institute of Technology, Tokyo, 152-8551, Japan, Nuclear Physics Division, Center for Computational Sciences, University of Tsukuba, Ibaraki, 305-8577, Japan	European Physical Journal A	2023	14346001
6970	Optimality conditions and duality results for a robust bi-level programming problem	Saini S., Kailey N., Ahmad I.	Saini, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kailey, N., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ahmad, I., Department of Mathematics, Interdisciplinary Research Center for Intelligent Secure Systems, King Fahd University of Petroleum & Minerals, Dhahran, 31261, Saudi Arabia	RAIRO - Operations Research	2023	28047303
6971	Comparison of ARIMA, SutteARIMA, and Holt-Winters, and NNAR Models to Predict Food Grain in India	Ahmar A.S., Singh P.K., Ruliana R., Pandey A.K., Gupta S.	Ahmar, A.S., Department of Statistics, Universitas Negeri Makassar, Makassar, 90223, Indonesia; Singh, P.K., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Economics, Lakshmibai College, University of Delhi, Delhi, 110052, India; Ruliana, R., Department of Statistics, Universitas Negeri Makassar, Makassar, 90223, Indonesia; Pandey, A.K., Centre for the Integrated and Rural Development, Banaras Hindu University, Varanasi, 221005, India; Gupta, S., RamManohar Lohia University, Faizabad, 224001, India	Forecasting	2023	25719394
6972	Sustainable development of fuel cell using enhanced weighted mean of vectors algorithm	Singla M.K., Gupta J., Nijhawan P., Alsharif M.H., Kim M.-K.	Singla, M.K., Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Punjab, India; Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Alsharif, M.H., Department of Electrical Engineering, College of Electronics and Information Engineering, Sejong University, 209 Neungdong-ro, Gwangjin-gu, Seoul, 05006, South Korea; Kim, M.-K., School of Energy System Engineering, Chung-Ang University, 84 Heukseok-ro, Dongjak-gu, Seoul, 06974, South Korea	Heliyon	2023	24058440
6973	Predictors of Treatment Completion in an Inpatient Substance Use Treatment Service in India	Ghosh A., Sharma N., Noble D., Basu D., Mattoo S.K., Nanjayaya S.B., Pillai R.R., Kaur S.	Ghosh, A., Department of Psychiatry, Drug De-addiction and Treatment Centre, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Sharma, N., Department of Psychiatry, Indira Gandhi Medical College, Himachal Pradesh, Shimla, India; Noble, D., Department of Psychiatry, IVY Hospital, Punjab, Nawanshahr, India; Basu, D., Department of Psychiatry, Drug De-addiction and Treatment Centre, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Mattoo, S.K., Community Mental Health Clinic, Cumbria Northumberland Tyne and Wear Foundation NHS Trust, Molineux NHS Centre, Newcastle Upon Tyne, United Kingdom; Nanjayaya, S.B., Department of Psychiatry, Drug De-addiction and Treatment Centre, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Pillai, R.R., Department of Psychiatry, Drug De-addiction and Treatment Centre, Postgraduate Institute of Medical Education and Research, Chandigarh, India; Kaur, S., Department of Psychiatry, Drug De-addiction and Treatment Centre, Postgraduate Institute of Medical Education and Research, Chandigarh, India, Department of Computer Science and Engineering, Thapar University, Punjab, India	Journal of Addiction Medicine	2023	19320620

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6974	Socio-Economic Analysis of the Construction and Building Materials' Usage—Ecological Awareness in the Case of Serbia	Vasić M.V., Goel G., Dubale M., Živković S., Trivunić M., Pezo M., Pezo L.	Vasić, M.V., Laboratory for Building Ceramics, Institute for Testing of Materials IMS, Bulevar Vojvode Mišića 43, Belgrade, 11000, Serbia; Goel, G., School of Energy and Environment, Thapar Institute of Engineering Technology, Patiala, 147004, India; Dubale, M., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, 781039, India; Živković, S., Institute for Testing of Materials IMS, Bulevar Vojvode Mišića 43, Belgrade, 11000, Serbia; Trivunić, M., Department of Civil Engineering and Geodesy, Faculty of Technical Sciences, University of Novi Sad, Trg Dositeja Obradovića 6, Novi Sad, 21000, Serbia; Pezo, M., Department of Thermal Engineering and Energy, "VINČA" Institute of Nuclear Sciences, University of Belgrade, Belgrade, 11001, Serbia; Pezo, L., Institute of General and Physical Chemistry, University of Belgrade, Studentski trg 12, Belgrade, 11000, Serbia	Sustainability (Switzerland)	2023	20711050
6975	Effects of injection rates and tissue diffusivity in magnetic nano-particle hyperthermia	Singh G., Singh A., Kumar N., Avti P.	Singh, G., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Virginia Tech-TIET- Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Virginia Tech-TIET- Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147001, India; Avti, P., Department of Biophysics, Post Graduate Institute of Medical Education and Research (PGIMER), #520, Fifth Floor, Research 'B' Block, Sector 12, Chandigarh, 160012, India	Medical Engineering and Physics	2023	13504533
6976	Determining the Role of Employee Engagement in Nurse Retention along with the Mediation of Organizational Culture	Goyal R., Kaur G.	Goyal, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Healthcare (Switzerland)	2023	22279032
6977	Fracture analysis of CNT-reinforced composites under thermo-mechanical loading using XIGA	Yadav A., Bhardwaj G., Godara R.K.	Yadav, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Bhardwaj, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Godara, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2023	16785878
6978	Formalization of Structural Test Cases Coverage Criteria for Quantum Software Testing	Kumar A.	Kumar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Theoretical Physics	2023	207748
6979	Optimal Trajectory Planning for Connected and Automated Vehicles in Lane-Free Traffic With Vehicle Nudging	Yanumula V.K., Typaldos P., Troullinos D., Malekzadeh M., Papamichail I., Papageorgiou M.	Yanumula, V.K., Technical University of Crete, Dynamic Systems and Simulation Laboratory, Chania, 73100, Greece, Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, 147001, India; Typaldos, P., Technical University of Crete, Dynamic Systems and Simulation Laboratory, Chania, 73100, Greece; Troullinos, D., Technical University of Crete, Dynamic Systems and Simulation Laboratory, Chania, 73100, Greece; Malekzadeh, M., Technical University of Crete, Dynamic Systems and Simulation Laboratory, Chania, 73100, Greece; Papamichail, I., Technical University of Crete, Dynamic Systems and Simulation Laboratory, Chania, 73100, Greece; Papageorgiou, M., Technical University of Crete, Dynamic Systems and Simulation Laboratory, Chania, 73100, Greece, Ningbo University, Faculty of Maritime and Transportation, Ningbo, 315211, China	IEEE Transactions on Intelligent Vehicles	2023	23798858
6980	Thermal, structural, optical, and photon shielding studies of cerium-doped barium tellurite glasses	Grover J., Kaur S., Pandey O.P.	Grover, J., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, India, P.G. Department of Physics, Kanya Maha Vidyalaya, Jalandhar, India; Pandey, O.P., School of Physics and Material Science, Thapar Institute of Engineering and Technology, Patiala, India	Luminescence	2023	15227235
6981	Three-dimensional printing of triply periodic minimal surface structured scaffolds for load-bearing bone defects	Agarwal R., Malhotra S., Gupta V., Jain V.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Malhotra, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India	Polymer Engineering and Science	2023	323888
6982	A toxic shrub turned therapeutic: The dichotomy of Nerium oleander bioactivities	Sharma R., Singh S., Tewari N., Dey P.	Sharma, R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Department of Zoology, University of North Bengal, Siliguri, India; Tewari, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Toxicon	2023	410101
6983	Solar photocatalytic disinfection of real municipal wastewater using highly durable TiO ₂ -coated composite in a pilot scale once through reactor	Thakur I., Verma A., Örmeci B.	Thakur, I., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Örmeci, B., Civil and Environmental Department, Carleton University, Ottawa, ON K1S 5B6, Canada	Environmental Science and Pollution Research	2023	9441344

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6984	The Role of Morphology on Thermal and Electrical Properties of MWCNT-Doped-PVDF Nanocomposites	Agarwal R., Mehtani H.K., Kumar R., Raina K.K.	Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mehtani, H.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, R., Post Graduation Department of Physics, Guru Nanak College Budhlada, Punjab, Mansa, 151502, India; Raina, K.K., M.S. Ramaiah University of Applied Sciences, Bangalore, 560054, India	Journal of Inorganic and Organometallic Polymers and Materials	2023	15741443
6985	Stability and controllability results of ψ -Hilfer fractional integro-differential systems under the influence of impulses	Dhayal R., Zhu Q.	Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Zhu, Q., School of Mathematics and Statistics, Hunan Normal University, Hunan, Changsha, 410081, China, Key Laboratory of Control and Optimization of Complex Systems, College of Hunan Province, Hunan Normal University, Hunan, Changsha, 410081, China	Chaos, Solitons and Fractals	2023	9600779
6986	An empirical analysis on adoption of precision agricultural techniques among farmers of Punjab for efficient land administration	Khanna A., Kaur S.	Khanna, A., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, S., Computer Science, Eastern Washington University, Washington, United States	Land Use Policy	2023	2648377
6987	Understanding the relevance of experiential learning for entrepreneurial self-efficacy: A gender-wise perspective	Taneja M., Kiran R., Bose S.C.	Taneja, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kiran, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bose, S.C., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Management Education	2023	14728117
6988	Optimization of fuzzy inventory lot-size with scrap and defective items under inspection policy	Garg H., Sugapriya C., Kuppulakshmi V., Nagarajan D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Sugapriya, C., Department of Mathematics, Queen Mary's College, Tamil Nadu, Chennai, India; Kuppulakshmi, V., Department of Mathematics, Velammal Engineering College, Tamil Nadu, Chennai, India; Nagarajan, D., Department of Mathematics, Rajalakshmi Institute of Technology, Tamil Nadu, Chennai, India	Soft Computing	2023	14327643
6989	Optimization of Cobalt Chrome 3D re-entrant Auxetics fabricated using Selective Laser Melting	Singh D., Tobin D., Dowling L., Trimble D.	Singh, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tobin, D., Department of Mechanical and Manufacturing Engineering, Trinity College, Dublin, Ireland; Dowling, L., Department of Mechanical and Manufacturing Engineering, Trinity College, Dublin, Ireland; Trimble, D., Department of Mechanical and Manufacturing Engineering, Trinity College, Dublin, Ireland	Engineering Structures	2023	1410296
6990	Analysis of seasonal and spatial distribution of particulate matters and gaseous pollutants around an open cast coal mining area of Odisha, India	Sharma R., Kumar A.	Sharma, R., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Kumar, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Environmental Science and Pollution Research	2023	9441344
6991	Performance dependency of LSTM and NAR beamformers with respect to sensor array properties in millimeter-wave V2I scenario	Kumar R., Singh H.	Kumar, R., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H., Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Microwave and Optical Technology Letters	2023	8952477
6992	Behavior of headed bars in steel fibers based concrete	Sachdeva P., Roy A.B.D., Kwatra N.	Sachdeva, P., Department of Civil Engineering, CUIET-Applied Engineering, Chitkara University, Punjab, India; Roy, A.B.D., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	Sadhana - Academy Proceedings in Engineering Sciences	2023	2562499
6993	An Improved and Efficient Approach for Enhancing the Precision of Diagnostic CT Images	Rao K., Bansal M., Kaur G.	Rao, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	SN Computer Science	2023	2662995X
6994	Review of the untapped potentials of antimicrobial materials in the construction sector	Kirthika S.K., Goel G., Matthews A., Goel S.	Kirthika, S.K., London South Bank University, London, SE10AA, United Kingdom; Goel, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Matthews, A., The University of Manchester, Manchester, M13 9PL, United Kingdom; Goel, S., London South Bank University, London, SE10AA, United Kingdom, University of Petroleum and Energy Studies, Dehradun, 248007, India	Progress in Materials Science	2023	796425
6995	On spherical fuzzy distance measure and TAOV method for decision-making problems with incomplete weight information	Ali J., Garg H.	Ali, J., Institute of Numerical Sciences, Kohat University of Science and Technology, KPK, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan	Engineering Applications of Artificial Intelligence	2023	9521976

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
6996	Tribological properties of hybrid aluminium matrix composites reinforced with boron carbide and ilmenite particles for brake rotor applications	Gupta R., Nanda T., Pandey O.P.	Gupta, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Archives of Civil and Mechanical Engineering	2023	16449665
6997	Genetic variations in ABC transporter genes as a predictive biomarker for toxicity in North Indian lung cancer patients undergoing platinum-based doublet chemotherapy	Sharma P., Singh N., Sharma S.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Biochemical and Molecular Toxicology	2023	10956670
6998	Towards adoption of GNNs for power flow applications in distribution systems	Yaniv A., Kumar P., Beck Y.	Yaniv, A., Tel Aviv University, Israel; Kumar, P., CSED, Thapar University, Patiala, India; Beck, Y., Tel Aviv University, Israel	Electric Power Systems Research	2023	3787796
6999	Confined ultrahigh-performance fibre-reinforced concrete in retrofitted beam-column joint: experimental study	Saharan S., Kaur G., Bansal P.P.	Saharan, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, P.P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Magazine of Concrete Research	2023	249831
7000	Design of a novel Ag-BaTiO ₃ /GO ternary nanocomposite with enhanced visible-light driven photocatalytic performance towards mitigation of carcinogenic organic pollutants	Passi M., Pal B.	Passi, M., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Separation and Purification Technology	2023	13835866
7001	Fusion of U-Net and CNN model for segmentation and classification of skin lesion from dermoscopy images	Anand V., Gupta S., Koundal D., Singh K.	Anand, V., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Gupta, S., Chitkara University, Institute of Engineering and Technology, Chitkara University, Punjab, India; Koundal, D., School of Computer Science, University of Petroleum & Energy Studies, Utrakhnad, Dehradun, India; Singh, K., Thapar University, Patiala, India	Expert Systems with Applications	2023	9574174
7002	An adaptive DNN inference acceleration framework with end-edge-cloud collaborative computing	Liu G., Dai F., Xu X., Fu X., Dou W., Kumar N., Bilal M.	Liu, G., School of Big Data and Intelligence Engineering, Southwest Forestry University, Kunming, 650224, China; Dai, F., School of Big Data and Intelligence Engineering, Southwest Forestry University, Kunming, 650224, China; Xu, X., School of Computer and Software, Nanjing University of Information Science and Technology, Nanjing, 210044, China; Fu, X., Faculty of Information Engineering and Automation, Kunming University of Science and Technology, Kunming, 650500, China; Dou, W., State Key Laboratory for Novel Software Technology, Department of Computer Science and Technology, Nanjing University 210008, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala (Pb.), India, School of Computer Science, University of Petroleum and energy Studies, Dehradun, Uttarakhand, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdul Aziz University, Jeddah, Saudi Arabia; Bilal, M., Computer and Electronics Systems Engineering, Hankuk University of Foreign Studies, Gyeonggi-do, Yongin-si, 17035, South Korea	Future Generation Computer Systems	2023	0167739X
7003	Enc-Unet: A novel method for Glioma segmentation	Hussain S.S., Sachdeva J., Ahuja C.K., Singh A.	Hussain, S.S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sachdeva, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Ahuja, C.K., Department of Radio Diagnosis and Imaging, Post Graduate Institute of Medical Education & Research, Chandigarh, India; Singh, A., Department of ISMR, Indian Council of Medical Research, New Delhi, India	International Journal of Imaging Systems and Technology	2023	8999457
7004	COUNTERSAVIOR: AIoMT and IIoT-Enabled Adaptive Virus Outbreak Discovery Framework for Healthcare Informatics	Pandya S., Ghayvat H., Reddy P.K., Gadekallu T.R., Khan M.A., Kumar N.	Pandya, S., Linnaeus University, Department of Computer Science and Media Technology, Växjö, 35244, Sweden, Symbiosis International (Deemed University), Symbiosis Institute of Technology, Pune, 412115, India; Ghayvat, H., Technical University of Denmark, Innovation Department, Copenhagen, 2800, Denmark, Linnaeus University, Faculty of Technology, Computer Science Department, Växjö, 35244, Sweden; Reddy, P.K., Vellore Institute of Technology, Vellore, 632014, India; Gadekallu, T.R., Vellore Institute of Technology, Vellore, 632014, India; Khan, M.A., Stanford University School of Medicine, Department of Neurology and Neurological Sciences, Stanford, CA 94305, United States; Kumar, N., Csed, Thapar Institute of Engineering and Technology, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, Lebanon, King Abdulaziz University, Faculty of Computing and It, Jeddah, 22254, Saudi Arabia	IEEE Internet of Things Journal	2023	23274662

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7005	A hybrid transient search naked mole-rat optimizer for image segmentation using multilevel thresholding	Singh S., Mittal N., Nayyar A., Singh U., Singh S.	Singh, S., Department of ECE, Chandigarh University, Mohali, India, Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India, Department of ECE, IIIT, Delhi, India; Mittal, N., Skill Faculty of Engineering & Technology, Shri Vishwakarma Skill University, Haryana, India; Nayyar, A., Graduate School, Duy Tan University, Da Nang, 550000, Viet Nam, Faculty of Information Technology, Duy Tan University, Da Nang, 550000, Viet Nam; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Singh, S., University Centre for Research & Development, Chandigarh University, Mohali, India, Department of Computer Science & Engineering, IIT Ropar, Rupnagar, 140001, India	Expert Systems with Applications	2023	9574174
7006	EffViT-COVID: A dual-path network for COVID-19 percentage estimation	Chauhan J., Bedi J.	Chauhan, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bedi, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Expert Systems with Applications	2023	9574174
7007	Swarm of UAVs for Network Management in 6G: A Technical Review	Khan M.A., Kumar N., Mohsan S.A.H., Khan W.U., Nasralla M.M., Alsharif M.H., Zywiolek J., Ullah I.	Khan, M.A., Hamdard Institute of Engineering and Technology, Department of Electrical Engineering, Islamabad, 45550, Pakistan; Kumar, N., Csed, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, 248007, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, 1102, Lebanon, Faculty of Computing and It, King Abdulaziz University, Jeddah, 22254, Saudi Arabia; Mohsan, S.A.H., Optical Communication Laboratory, Ocean College, Zhejiang University, Zhoushan, 316021, China; Khan, W.U., Interdisciplinary Centre for Security, Reliability and Trust (SnT), University of Luxembourg, Luxembourg City, 1855, Luxembourg; Nasralla, M.M., Communications and Networks Engineering Department, Prince Sultan University, Riyadh, 11586, Saudi Arabia; Alsharif, M.H., Department of Electrical Engineering, Sejong University, Seoul, 05006, South Korea; Zywiolek, J., Faculty of Management, Czestochowa University of Technology, Czestochowa, 42-200, Poland; Ullah, I., Hamdard Institute of Engineering and Technology, Department of Electrical Engineering, Islamabad, 45550, Pakistan	IEEE Transactions on Network and Service Management	2023	19324537
7008	Economic Emission Generation Scheduling of Interconnected Energy System Using Hybrid Optimization Technique	Kaur A., Narang N.	Kaur, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2023	22286179
7009	A Systematic Review on Biomarker Identification for Cancer Diagnosis and Prognosis in Multi-omics: From Computational Needs to Machine Learning and Deep Learning	Dhillon A., Singh A., Bhalla V.K.	Dhillon, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhalla, V.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Archives of Computational Methods in Engineering	2023	11343060
7010	Similarity measures of Pythagorean fuzzy soft sets and clustering analysis	Athira T.M., John S.J., Garg H.	Athira, T.M., Department of Mathematics, National Institute of Technology, Kerala, Calicut, 673601, India; John, S.J., Department of Mathematics, National Institute of Technology, Kerala, Calicut, 673601, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Panjab, Patiala, 147004, India	Soft Computing	2023	14327643
7011	Predicting clothing attributes with CNN and SURF based classification model	Kaur N., Pandey S.	Kaur, N., CSED, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Pandey, S., CSED, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
7012	Facial emotion recognition based real-time learner engagement detection system in online learning context using deep learning models	Gupta S., Kumar P., Tekchandani R.K.	Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tekchandani, R.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
7013	Performance Evaluation of Flutter-Based Energy Harvester Under Different Vortex Flow Regimes: An Experimental Study	Agarwal A., Purohit A.	Agarwal, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Purohit, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Arabian Journal for Science and Engineering	2023	2193567X
7014	In silico investigation for drug-like pharmacophores against food allergen profilins	Singh B., Jan S., Kumar Upadhyay A., Raj Sharma N.	Singh, B., School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar, India; Jan, S., School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar, India; Kumar Upadhyay, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Raj Sharma, N., School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar, India	Allergo Journal International	2023	21970378
7015	India's Participation Toward Timescale from Ancient Time to the Current Date: Nimesha to Universal Coordinated Time (UTC)	Thorat P.P., Agarwal R., Aswal D.K.	Thorat, P.P., CSIR-National Physical Laboratory, New Delhi, India, Thapar Institute of Engineering & Technology, Patiala, India; Agarwal, R., Thapar Institute of Engineering & Technology, Patiala, India; Aswal, D.K., BhabhaAtomic Research Center, Mumbai, India	Mapan - Journal of Metrology Society of India	2023	9703950

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7016	Filtering investigation for enhanced performance of MZM–MZI integrated switching network	Verma S., Randhawa R., Kaur H.	Verma, S., Department of Electronics and Communication Engineering, TIET, Punjab, Patiala, India; Randhawa, R., Department of Computer Science and Engineering, Punjabi University, Patiala, India; Kaur, H., Department of Electronics and Communication Engineering, TIET, Punjab, Patiala, India	Journal of Optics (India)	2023	9728821
7017	miRNAs are now starring in “No Time to Die: Overcoming the chemoresistance in cancer”	Bhatia A., Upadhyay A.K., Sharma S.	Bhatia, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	IUBMB Life	2023	15216543
7018	Demystifying the Devices Behind the LED Light: LED Driver Circuits	Barwar M.K., Sahu L.K., Tripathi P.R., Bhatnagar P., Gupta K.K., Chander A.H., Guerrero J.M.	Barwar, M.K., National Institute of Technology Raipur, Department of Electrical Engineering, Chhattisgarh492010, India; Sahu, L.K., National Institute of Technology Raipur, Department of Electrical Engineering, Chhattisgarh492010, India; Tripathi, P.R., FleetRF, Noida, 201009, India; Bhatnagar, P., Infotech Education Society College of Technology, Department of Electrical Engineering, Bhopal, 462044, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, 147001, India; Chander, A.H., National Institute of Technology Puducherry, Department of Electrical and Electronics Engineering, Puducherry, 609609, India; Guerrero, J.M., Aalborg University, Department of Energy Technology, Aalborg, 9220, Denmark	IEEE Industrial Electronics Magazine	2023	19324529
7019	Recent Advancements in Microalgal Mediated Valorisation of Wastewater from Hydrothermal Liquefaction of Biomass	Rout P.R., Goel M., Mohanty A., Pandey D.S., Halder N., Mukherjee S., Bhatia S.K., Sahoo N.K., Varjani S.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Goel, M., Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom; Mohanty, A., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Punjab, Jalandhar, India; Pandey, D.S., School of Computing and Engineering, University of Huddersfield, Huddersfield, United Kingdom; Halder, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Mukherjee, S., Energy Systems Catapult, Birmingham, United Kingdom; Bhatia, S.K., Department of Biological Engineering, Konkuk University, Seoul, 05029, South Korea; Sahoo, N.K., Department of Chemistry, Environmental Science Program - Institute of Technical Education and Research - Siksha 'O' Anusandhan, Odisha, Bhubaneswar, 751030, India; Varjani, S., Gujarat Pollution Control Board, Gujarat, Gandhinagar, 382010, India	Bioenergy Research	2023	19391234
7020	Stocks of year 2020: prediction of high variations in stock prices using LSTM	Bathla G., Rani R., Aggarwal H.	Bathla, G., University of Petroleum and Energy Studies, Dehradun, India; Rani, R., Thapar Institute of Engg. & Tech, Patiala, India; Aggarwal, H., Punjabi University, Patiala, India	Multimedia Tools and Applications	2023	13807501
7021	Mathematical analysis of COVID-19 pandemic by using the concept of SIR model	Garg H., Nasir A., Jan N., Khan S.U.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University Patiala, Patiala, India; Nasir, A., Department of Mathematics, Institute of Numerical Sciences, Gomal University, KPK, Dera Ismail Khan, 29050, Pakistan; Jan, N., Department of Mathematics, Institute of Numerical Sciences, Gomal University, KPK, Dera Ismail Khan, 29050, Pakistan; Khan, S.U., Department of Mathematics, Institute of Numerical Sciences, Gomal University, KPK, Dera Ismail Khan, 29050, Pakistan	Soft Computing	2023	14327643
7022	New prioritized aggregation operators with priority degrees among priority orders for complex intuitionistic fuzzy information	Garg H., Rani D.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India; Rani, D., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
7023	Tectona grandis Lf. mediated restoration of marginal lands in Eastern Uttar Pradesh, North India	Edrisi S.A., Singh A., Dubey P.K., Abhilash P.C.	Edrisi, S.A., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, A., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Dubey, P.K., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India; Abhilash, P.C., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, India	Land Degradation and Development	2023	10853278
7024	A comprehensive analysis of horizontally polarized shear waves in a thin microstructural plate	Sharma V., Kumar S.	Sharma, V., Department of Mathematics, Lovely Professional University, Punjab, Phagwara, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Structural Engineering and Mechanics	2023	12254568
7025	Solar light responsive 2D/2D BiVO4/SnS2 nanocomposite for photocatalytic elimination of recalcitrant antibiotics and photoelectrocatalytic water splitting with high performance	Singla S., Basu S., Devi P.	Singla, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, P., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India	Journal of Industrial and Engineering Chemistry	2023	1226086X
7026	Design and application of potentiometric sensors for the determination of mefenamic and phenylanthranilic acids	Kormosh Z., Khalavka Y., Mittal S.K.	Kormosh, Z., Department of Chemistry and Technology, Lesya Ukrainka Volyn National University, Voli Av., 13, Lutsk, 43021, Ukraine; Khalavka, Y., Department of Inorganic Chemistry of Solids and Nanoparticles, Yuriy Fedkovych Chernivtsi National University, Kotsiubynsky Str. 2, Chernivtsi, 58012, Ukraine; Mittal, S.K., School of Chemistry and Biochemistry, Thapar University, Punjab, Patiala, 147004, India	Analytical Methods	2023	17599660

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7027	Additive manufacturing: Materials, technologies, and applications	Agarwal R., Sharma S., Gupta V., Singh J., Khas K.S.	Agarwal, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khas, K.S., Product and Industrial Design Department, Lovely Professional University, Punjab, India	Additive Manufacturing: Advanced Materials and Design Techniques	2023	
7028	Unravelling the destabilization potential of ellagic acid on α -synuclein fibrils using molecular dynamics simulations	Mankoo O.K., Kaur A., Goyal D., Goyal B.	Mankoo, O.K., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Kaur, A., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, 140406, India; Goyal, D., Department of Chemistry, DAV College, Sector 10, Chandigarh, 160011, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Physical Chemistry Chemical Physics	2023	14639076
7029	Magnetized neutron star crust within effective relativistic mean-field model	Parmar V., Das H.C., Sharma M.K., Patra S.K.	Parmar, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Das, H.C., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India; Sharma, M.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Patra, S.K., Institute of Physics, Sachivalaya Marg, Bhubaneswar, 751005, India, Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400094, India	Physical Review D	2023	24700010
7030	Design and development of a bidirectional DC net meter for vehicle to grid technology at TRL-9 level	Yadav K., Singh M.	Yadav, K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Measurement: Journal of the International Measurement Confederation	2023	2632241
7031	A high-value biohythane production: Feedstocks, reactor configurations, pathways, challenges, technoeconomics and applications	Mozhiarasi V., Natarajan T.S., Dhamodharan K.	Mozhiarasi, V., CLRI Regional Centre, CSIR-Central Leather Research Institute (CSIR-CLRI), Punjab, Jalandhar, 144 021, India, Academy of Scientific and Innovative Research (AcSIR), Uttar Pradesh, Ghaziabad, India; Natarajan, T.S., Environmental Science Laboratory, CSIR-Central Leather Research Institute (CSIR-CLRI), Tamil Nadu, Chennai, 600 020, India, Academy of Scientific and Innovative Research (AcSIR), Uttar Pradesh, Ghaziabad, India; Dhamodharan, K., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	Environmental Research	2023	139351
7032	Viable FA based bacterial cells as sustainable solution for corrosion prevention in RC structures	Anand K., Goyal S., Kaur N., Sudhakara Reddy M.	Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, N., Bridge Engineering and Structures (BES) Division, CSIR-Central Road Research Institute (CRR), Mathura Road, New Delhi, 110025, India; Sudhakara Reddy, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Construction and Building Materials	2023	9500618
7033	TOPSIS-method based on generalized dice similarity measures with hamy mean operators and its application to decision-making process	Garg H., Ali Z., Mahmood T., Ali M.R.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Dehradun, India; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; Ali, M.R., Faculty of Engineering and Technology, Future University, Cairo, Egypt, Center of Research, Faculty of Engineering and Technology, Future University in Egypt New Cairo11835, Egypt	Alexandria Engineering Journal	2023	11100168
7034	Editorial: Antidiabetic molecular targets: Updates on old and emerging targets and their small molecule modulators	Islam M.S., Singh P., Paul K.	Islam, M.S., Department of Biochemistry, School of Life Sciences, University of KwaZulu-Natal, Durban, South Africa; Singh, P., Department of Chemistry, School of Chemistry and Physics, University of KwaZulu-Natal, Durban, South Africa; Paul, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Chemistry	2023	22962646
7035	A Comprehensive Review on Recent Advancements in the Field of Internet of Things, Its Challenges and Future Scope	Randhawa R., Verma M.	Randhawa, R., Department of Computer Science, Punjabi University, Patiala, India; Verma, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Optoelectronics, Instrumentation and Data Processing	2023	87566990
7036	In-Situ Carbon Coated Iron Oxide (ISC-Fe2O3) as an Efficient Material for Photocatalytic Degradation	Kumar R., Choudhary R., Pandey O.P., Singh K., Bhargava P.	Kumar, R., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India, Centre for Energy Studies, Indian Institute of Technology Delhi, New Delhi, 110016, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bhargava, P., Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai, 400076, India	Glass Physics and Chemistry	2023	10876596
7037	Delay analysis of mixed CNT bundles as global interconnect for nanotechnology nodes	Dhillon G., Sandha K.S.	Dhillon, G., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sandha, K.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Electrical Engineering	2023	13353632

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7038	Confidence Levels-Based Cubic Fermatean Fuzzy Aggregation Operators and Their Application to MCDM Problems	Garg H., Rahim M., Amin F., Jafari S., M. Hezam I.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Rahim, M., Department of Mathematics, Hazara University Mansehra, Mansehra, 21120, Pakistan; Amin, F., Department of Mathematics, Hazara University Mansehra, Mansehra, 21120, Pakistan; Jafari, S., College of Vestsjaelland South, Herrestraede 11, Slagelse, 4200, Denmark; M. Hezam, I., Department of Statistics & Operations Research, College of Sciences King Saud University, Riyadh, 11451, Saudi Arabia	Symmetry	2023	20738994
7039	The Impact of Top Management Team Characteristics on the Risk Taking of Chinese Private Construction Enterprises	Zhang Y., Cao C., Gu J., Garg H.	Zhang, Y., School of Business, Ningbo University, Ningbo, 315211, China; Cao, C., School of Business, Ningbo University, Ningbo, 315211, China; Gu, J., School of Business, Ningbo University, Ningbo, 315211, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan	Systems	2023	20798954
7040	The Behavior of Shear Waves in the Composite Multi-Material Structure with the Periodic Asymmetric Surfaces	Bharti U., Vaishnav P.K., Yao S.-W., Ahmad H.	Bharti, U., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Vaishnav, P.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Yao, S.-W., School of Mathematics and Information Science, Henan Polytechnic University, Jiaozuo, 454000, China; Ahmad, H., Operational Research Center in Healthcare, Near East University, Near East Boulevard, Mersin 10, Nicosia, 99138, Turkey, Section of Mathematics, International Telematic University Uninettuno, Corso Vittorio Emanuele, II, 39, Roma, 00186, Italy	Symmetry	2023	20738994
7041	In Vivo Plant Bio-Electrochemical Sensor Using Redox Cycling	Dotan T., Jog A., Kadan-Jamal K., Avni A., Shacham-Diamand Y.	Dotan, T., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel; Jog, A., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel; Kadan-Jamal, K., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel; Avni, A., School of Plant Sciences and Food Security, Faculty of Life Sciences, Tel Aviv University, Tel Aviv, 69978, Israel; Shacham-Diamand, Y., Department of Physical Electronics, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, Department of Material Science and Engineering, Faculty of Engineering, Tel Aviv University, Tel Aviv, 69978, Israel, TAU/TIET Food Security Center of Excellence (TTFSCoE), Thapar Institute of Engineering and Technology, Patiala, 147004, India	Biosensors	2023	20796374
7042	Seasonal Changes in Serum Metabolites in Multiple Sclerosis Relapse	Martynova E., Khaibullin T., Salafutdinov I., Markelova M., Laikov A., Lopukhov L., Liu R., Sahay K., Goyal M., Baranwal M., Rizvanov A.A., Khaiboullina S.	Martynova, E., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation; Khaibullin, T., Republican Clinical Neurological Center, Republic of Tatarstan, Kazan, 420021, Russian Federation; Salafutdinov, I., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation, Department of Medical Biology and Genetic, Kazan State Medical University, Kazan, 420088, Russian Federation; Markelova, M., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation; Laikov, A., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation; Lopukhov, L., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation; Liu, R., Department of Immunology, School of Basic Medical Sciences, Henan University of Science and Technology, Luoyang, 471003, China; Sahay, K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation; Khaiboullina, S., Institute of Fundamental Medicine and Biology, Kazan (Volga Region) Federal University, Kazan, 420008, Russian Federation	International Journal of Molecular Sciences	2023	16616596
7043	A Fuzzy-Based Fast Feature Selection Using Divide and Conquer Technique in Huge Dimension Dataset	Tanwar A., Alghamdi W., Alahmadi M.D., Singh H., Rana P.S.	Tanwar, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Alghamdi, W., Department of Information Technology, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Alahmadi, M.D., Department of Software Engineering, College of Computer Science and Engineering, University of Jeddah, Jeddah, 21959, Saudi Arabia; Singh, H., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rana, P.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Mathematics	2023	22277390

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7044	Hemorrhagic Fever with Renal Syndrome in Asia: History, Pathogenesis, Diagnosis, Treatment, and Prevention	Sehgal A., Mehta S., Sahay K., Martynova E., Rizvanov A., Baranwal M., Chandy S., Khaiboullina S., Kabwe E., Davidyuk Y.	Sehgal, A., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mehta, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sahay, K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Martynova, E., OpenLab "Gene and Cell Technologies", Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Rizvanov, A., OpenLab "Gene and Cell Technologies", Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandy, S., Childs Trust Medical Research Foundation, Kanchi Kamakoti Childs Trust Hospital, Chennai, 600034, India; Khaiboullina, S., OpenLab "Gene and Cell Technologies", Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Kabwe, E., OpenLab "Gene and Cell Technologies", Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation; Kazan Research Institute of Epidemiology and Microbiology, Kazan, 420012, Russian Federation; Davidyuk, Y., OpenLab "Gene and Cell Technologies", Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, 420008, Russian Federation	Viruses	2023	19994915
7045	Approximate Controllability of Delayed Fractional Stochastic Differential Systems with Mixed Noise and Impulsive Effects	Hakkar N., Dhayal R., Debbouche A., Torres D.F.M.	Hakkar, N., Department of Mathematics, Guelma University, Guelma, 24000, Algeria; Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Debbouche, A., Department of Mathematics, Guelma University, Guelma, 24000, Algeria, CIDMA—Center for Research and Development in Mathematics and Applications, Department of Mathematics, University of Aveiro, Aveiro, 3810-193, Portugal; Torres, D.F.M., CIDMA—Center for Research and Development in Mathematics and Applications, Department of Mathematics, University of Aveiro, Aveiro, 3810-193, Portugal	Fractal and Fractional	2023	25043110
7046	Feasibility Study of Reclaimed Asphalt Pavements (RAP) as Recycled Aggregates Used in Rigid Pavement Construction	Rout M.K.D., Sahdeo S.K., Biswas S., Roy K., Sinha A.K.	Rout, M.K.D., Department of Civil Engineering, National Institute of Technology, Jamshedpur, 831014, India; Sahdeo, S.K., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Biswas, S., Department of Civil Engineering, National Institute of Technology, Durgapur, 713209, India; Roy, K., School of Engineering, University of Waikato, Hamilton, 3216, New Zealand; Sinha, A.K., Department of Civil Engineering, National Institute of Technology, Jamshedpur, 831014, India	Materials	2023	19961944
7047	High temperature tribological and electrochemical behavior of heat-treated Al ₂ O ₃ -base hybrid coating sprayed by HVOF thermal spray technique	Sonia, Walia R.S., Suri N.M., Chaudhary S.	Sonia, Production and Industrial Engineering Department, PEC, Chandigarh, India; Walia, R.S., Production and Industrial Engineering Department, PEC, Chandigarh, India; Suri, N.M., Production and Industrial Engineering Department, PEC, Chandigarh, India; Chaudhary, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Materials Research Express	2023	20531591
7048	Value and Contrarian Investment Strategies: Evidence from Indian Stock Market	Jagirdar S.S., Gupta P.K.	Jagirdar, S.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, P.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Risk and Financial Management	2023	19118074
7049	Epidemiology of Ebolaviruses from an Etiological Perspective	Jain S., Khaiboullina S., Martynova E., Morzunov S., Baranwal M.	Jain, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Biochemistry and Molecular Biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, 6997801, Israel; Khaiboullina, S., Institute of Fundamental Medicine and Biology, Kazan Federal University, Tatarstan, Kazan, 420008, Russian Federation; Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Tatarstan, Kazan, 420008, Russian Federation; Morzunov, S., Department of Pathology, School of Medicine, University of Nevada, Reno, NV 89557, United States; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Pathogens	2023	20760817
7050	Guest Editorial Fuzzy Decision Systems for Sustainable Transport	Deveci M., Rodriguez R.M., Pamucar D., Tavana M., Garg H.	Deveci, M., National Defence University, Department of Industrial Engineering, Turkish Naval Academy, Istanbul, 34940, Turkey; Rodriguez, R.M., University of Jaén, Department of Computer Science, Jaén, Spain; Pamucar, D., University of Belgrade, Department of Operations Research and Statistics, Faculty of Organizational Sciences, Belgrade, 11000, Serbia; Tavana, M., La Salle University, Business Systems and Analytics Department, Philadelphia, PA 19141, United States; Garg, H., Thapar Institute of Engineering and Technology, Deemed University, School of Mathematics, Punjab, Patiala, 147004, India	IEEE Transactions on Fuzzy Systems	2023	10636706
7051	Targeting the nervous system of the parasitic worm, Haemonchus contortus with quercetin	Goel V., Sharma S., Chakroborty N.K., Singla L.D., Choudhury D.	Goel, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Chakroborty, N.K., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singla, L.D., Department of Veterinary Parasitology, Guru Angad Dev Veterinary and Animal Sciences University, Punjab, Ludhiana, 141001, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, Thapar Institute of Engineering & Technology-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Heliyon	2023	24058440

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7052	Magnetic hyperthermia of AFe ₂ O ₄ (A = Fe, Mn, Co) nanoparticles prepared by Co-precipitation method	Kaur Y., Chandel A., Chudasama B.	Kaur, Y., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandel, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	AIP Advances	2023	21583226
7053	Potential use of foundry sand and furnace blast sand for fabrication of visibly active composite to promote circular economy/waste management for treating real agro-industrial wastewater	Puri S., Verma A.	Puri, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Water Environment Research	2023	10614303
7054	Machine Learning and Deep Learning Techniques for Spectral Spatial Classification of Hyperspectral Images: A Comprehensive Survey	Grewal R., Singh Kasana S., Kasana G.	Grewal, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh Kasana, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kasana, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Electronics (Switzerland)	2023	20799292
7055	A Review of Membrane-Based Desalination Systems Powered by Renewable Energy Sources	Shahid M.K., Mainali B., Rout P.R., Lim J.W., Aslam M., Al-Rawajfeh A.E., Choi Y.	Shahid, M.K., Research Institute of Environment Biosystem, Chungnam National University, Daejeon, 34134, South Korea; Mainali, B., School of Engineering, Faculty of Science and Engineering, Macquarie University, Sydney, 2109, Australia; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Lim, J.W., HICoE—Centre for Biofuel and Biochemical Research, Institute of Self-Sustainable Building, Department of Fundamental and Applied Sciences, Universiti Teknologi PETRONAS, Perak Darul Ridzuan, Seri Iskandar, 32610, Malaysia, Department of Biotechnology, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Tamil Nadu, Chennai, 602105, India; Aslam, M., Department of Chemical Engineering, COMSATS University Islamabad (CU), Lahore Campus, Lahore, 54590, Pakistan; Al-Rawajfeh, A.E., Department of Chemical Engineering, Tafila Technical University, Tafila, 66110, Jordan; Choi, Y., Department of Environmental & IT Engineering, Chungnam National University, Daejeon, 34134, South Korea	Water (Switzerland)	2023	20734441
7056	Recent advances in various processes for clean and sustainable hydrogen production	Monga D., Shetti N.P., Basu S., Kakarla R.R.	Monga, D., Department of Chemistry, RIMT University, Punjab, Mandi Gobindgarh, 147301, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, BVBCET Campus, Karnataka, Hubballi, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kakarla, R.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Nano-Structures and Nano-Objects	2023	2352507X
7057	Intervention of artificial intelligence to predict the degradation and mineralization of amoxicillin through photocatalytic route using nickel phosphide-titanium dioxide catalyst	Sethi S., Dhir A., Arora V.	Sethi, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Reaction Kinetics, Mechanisms and Catalysis	2023	18785190
7058	Characterization and genome-wide sequence analysis of an ectomycorrhizal fungus Pisolithus albus, a potential source for reclamation of degraded lands	Chot E., Suravajhala P., Medicherla K.M., Reddy M.S.	Chot, E., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Suravajhala, P., Amrita School of Biotechnology, Amrita Vishwa Vidyapeetham, Amritapuri, Clappana P.O, Kerala, Kollam, 690525, India; Medicherla, K.M., Birla Institute of Scientific Research, Statue Circle, Jaipur, 302001, India; Reddy, M.S., Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India	3 Biotech	2023	2190572X
7059	Systematic study of the effect of individual rotational energy levels on the fusion cross-section of 16 O-based reactions of range 480 ≤ Z P Z T ≤ 592	Jain N., Bhuyan M., Kumar R.	Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics, Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Physica Scripta	2023	318949

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7060	Key insights into secondary metabolites from various Chaetomium species	Dwivedi V., Rath S.K., Jain S., Martínez-Argueta N., Prakash R., Saxena S., Rios-Solis L.	Dwivedi, V., University Institute of Biotechnology, Chandigarh University, Mohali, India; Rath, S.K., School of Pharmaceuticals and Population Health Informatics, Faculty of Pharmacy, DIT University, Uttarakhand, Dehradun, 248009, India; Jain, S., Department of Biochemistry and Molecular Biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel; Martínez-Argueta, N., School of Natural and Environmental Sciences, Molecular Biology and Biotechnology Division, Newcastle University, Newcastle Upon Tyne, NE1 7RU, United Kingdom, Centre for Synthetic and Systems Biology, Institute for Bioengineering, University of Edinburgh, Mary Bruck Building 3.11, King's Building, Edinburgh, EH9 3FB, United Kingdom; Prakash, R., Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala-147004, Punjab, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rios-Solis, L., School of Natural and Environmental Sciences, Molecular Biology and Biotechnology Division, Newcastle University, Newcastle Upon Tyne, NE1 7RU, United Kingdom, Centre for Synthetic and Systems Biology, Institute for Bioengineering, University of Edinburgh, Mary Bruck Building 3.11, King's Building, Edinburgh, EH9 3FB, United Kingdom	Applied Microbiology and Biotechnology	2023	1757598
7061	Influence of corrosion inhibitors on two different concrete systems under combined chloride and carbonated environment	Tiwari A.K., Purnima, Goyal S., Luxami V.	Tiwari, A.K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Purnima, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Luxami, V., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Structures	2023	23520124
7062	Catalytic hydrogenolysis over Cu-based oxide derived from hydrotalcite-like structured materials: Reaction condition optimization and artificial neural network modelling	Kumar P., Kaur R., Verma S., Štangar U.L.	Kumar, P., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Večna pot 113, Ljubljana, 1000, Slovenia; Kaur, R., Laboratory for Open Systems and Networks, Jožef Stefan Institute, Ljubljana, 1000, Slovenia; Verma, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Štangar, U.L., Faculty of Chemistry and Chemical Technology, University of Ljubljana, Večna pot 113, Ljubljana, 1000, Slovenia	Applied Clay Science	2023	1691317
7063	Inverse optimization based non-invasion technique for multiple tumor detection in brain tissue	Singhal M., Singla R.K., Goyal K., Singh S.	Singhal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Communications in Heat and Mass Transfer	2023	7351933
7064	Fabrication of highly efficient Au and layered double hydroxide modified g-C ₃ N ₄ ternary composites for degradation of pharmaceutical drug: Pathways and mechanism	Kaur J., Pal B., Singh S., Kaur H.	Kaur, J., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, 147001, Patiala, 147004, India; Pal, B., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, 147001, Patiala, 147004, India; Singh, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, 147001, Patiala, 147004, India; Kaur, H., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, 147001, Patiala, 147004, India	Surfaces and Interfaces	2023	24680230
7065	Ultrafast polarization self-switching with enhanced OSNR utilizing SOA and Erbium-doped amplifier-based compound photonic amplification	Kaur H., Kaler R.S.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Optical and Quantum Electronics	2023	3068919
7066	Dual emissive carbon dots: Synthesis strategies, properties and its ratiometric sensing applications	Kainth S., Maity B., Shetti N.P., Basu S., Kakarla R.R.	Kainth, S., School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Karnataka, Hubballi, 580031, India; Basu, S., School of Chemistry and Biochemistry, Affiliate Faculty - TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India, School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kakarla, R.R., School of Chemical and Biomolecular Engineering, The University of Sydney, Sydney, NSW 2006, Australia	Nano-Structures and Nano-Objects	2023	2352507X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7067	COVID-19 health data analysis and personal data preserving: A homomorphic privacy enforcement approach	Dhasarathan C., Hasan M.K., Islam S., Abdullah S., Mokhtar U.A., Javed A.R., Goundar S.	Dhasarathan, C., Thapar Institute of Engineering & Technology, ECED, Department of Computer Science & Engineering, Punjab, India; Hasan, M.K., Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Selangor, Bangi, 43600, Malaysia; Islam, S., Institute of Computer Science and Digital Innovation, UCSI University, Malaysia; Abdullah, S., Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Selangor, Bangi, 43600, Malaysia; Mokhtar, U.A., Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Selangor, Bangi, 43600, Malaysia; Javed, A.R., Department of Cyber Security, Air University, Islamabad, Pakistan, Department of Electrical and Computer Engineering, Lebanese American University, Byblos, Lebanon; Goundar, S., School of Computing and Innovative Technologies, British University Vietnam, Viet Nam, School of Science, Engineering, and Technology, RMIT University, Viet Nam	Computer Communications	2023	1403664
7068	Spin-orbit coupling, orbitally entangled antiferromagnetic order, and collective spin-orbital excitations in Sr ₂ VO ₄	Mohapatra S., Kumar Singh D., Ray R., Ghosh S., Singh A.	Mohapatra, S., Theory Division, Saha Institute of Nuclear Physics, HBNI, Kolkata, 700064, India; Kumar Singh, D., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ray, R., Department of Physics, Birla Institute of Technology Mesra, Ranchi, 835215, India; Ghosh, S., Département de Physique, Université de Sherbrooke, Sherbrooke, QC J1K 2R1, Canada; Singh, A., Department of Physics, Indian Institute of Technology, Kanpur, 208016, India	Journal of Physics Condensed Matter	2023	9538984
7069	A unified Feng–Liu type result in relational metric spaces with an application	Hasanuzzaman M., Imdad M.	Hasanuzzaman, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Imdad, M., Department of Mathematics, Aligarh Muslim University, Aligarh, 202002, India	Journal of Fixed Point Theory and Applications	2023	16617738
7070	Deciphering the mechanism of doped and heteroatom doped-carbon dots for detection of lead ions at nanomolar level	Sohal N., Basu S., Maity B.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Microchemical Journal	2023	0026265X
7071	Controlled precipitation and recrystallization to achieve superior mechanical properties of severely deformed Inconel 718 alloy	Yadav P.C., Shekhar S., Jayabalan B., Sharma N.K.	Yadav, P.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Shekhar, S., Structural Nano-materials Lab, Department of Materials Science and Engineering, Indian Institute of Technology Kanpur 208016, India; Jayabalan, B., Research and Development Section, Tata Steel Limited, Jamshedpur, 208016, India; Sharma, N.K., Department of Metallurgical and Materials Engineering, Indian Institute of Technology Jodhpur 342037, India	Materials Chemistry and Physics	2023	2540584
7072	k-anonymization of social network data using Neural Network and SVM: K-NeuroSVM	Kaur H., Hooda N., Singh H.	Kaur, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Hooda, N., School of Computing, Indian Institute of Information Technology Una, India; Singh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Information Security and Applications	2023	22142134
7073	Emerging groundwater contaminants: A comprehensive review on their health hazards and remediation technologies	Pradhan B., Chand S., Chand S., Rout P.R., Naik S.K.	Pradhan, B., Department of Agricultural Biotechnology, School of Agriculture and Rural Development, Ramakrishna Mission Vivekananda Educational and Research Institute, Narendrapur, West Bengal, Kolkata, 700103, India; Chand, S., School of Fashion Technology, Kalinga Institute of Industrial Technology, Odisha, Bhubaneswar, 751024, India; Chand, S., Centre of Sustainable Built Environment, Manipal School of Architecture and Planning, Manipal Academy of Higher Education, Manipal, Karnataka 576104, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Naik, S.K., ICAR Research Complex for Eastern Region, Farming System Research Centre for Hill and Plateau Region, Ministry of Agriculture, Jharkhand, Ranchi, 834010, India	Groundwater for Sustainable Development	2023	2352801X
7074	Kernelized transformed subspace clustering with geometric weights for non-linear manifolds	Maggu J., Majumdar A.	Maggu, J., CSED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Majumdar, A., CSE, Indraprastha Institute of Information Technology Delhi, Delhi, New Delhi 110020, India	Neurocomputing	2023	9252312
7075	BiVO ₄ /MoSe ₂ Photocatalyst for the photocatalytic Abatement of tetracycline and photoelectrocatalytic water splitting	Singla S., Singh P., Basu S., Devi P.	Singla, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India; Singh, P., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Devi, P., Materials Science and Sensor Application, Central Scientific Instruments Organisation, Chandigarh, 160030, India, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	Materials Chemistry and Physics	2023	2540584
7076	Effect of infill pattern on the mechanical properties of polydopamine-coated polylactic acid orthopedic bone plates developed by fused filament fabrication	Sharma S., Gupta V., Mudgal D.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Polymer Engineering and Science	2023	323888

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7077	Synthesis of 1D β -MnO ₂ for high-performance supercapacitor application	Pundir S., Upadhyay S., Priya R., Kumar N., Chetana S., Hossain I., Joshi N.C., Pandey O.P.	Pundir, S., Chandigarh University, Chandigarh, India; Upadhyay, S., Division of Research and Innovation, Uttaranchal University, Dehradun, 248007, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India; Priya, R., Chandigarh University, Chandigarh, India; Kumar, N., Division of Research and Innovation, Uttaranchal University, Dehradun, 248007, India; Chetana, S., Chandigarh University, Chandigarh, India; Hossain, I., School of Natural Sciences and Mathematics, Ural Federal University, Yekaterinburg, 620000, Russian Federation; Joshi, N.C., Division of Research and Innovation, Uttaranchal University, Dehradun, 248007, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Solid State Electrochemistry	2023	14328488
7078	Transient analysis in doped MLG NR for subthreshold interconnects under process-induced physical and geometrical parameters	Sidhu R., Rai M.K.	Sidhu, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Computational Electronics	2023	15698025
7079	Development of a metamaterial-based compact applicator for hyperthermia	Sharma N., Singh H.S., Khanna R., Kaur A., Agarwal M.	Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Center of Excellence in Emerging Materials (CEEMS), TIET, Punjab, Patiala, India	Microwave and Optical Technology Letters	2023	8952477
7080	A Note on "A New Ranking Approach for Solving Fully Fuzzy Transportation Problem in Intuitionistic Fuzzy Environment"	Bhatia T.K., Kumar A., Appadoo S.S., Sharma M.K.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed to Be University, Punjab, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed to Be University, Punjab, Patiala, 147004, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada; Sharma, M.K., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed to Be University, Punjab, Patiala, 147004, India	Journal of Control, Automation and Electrical Systems	2023	21953880
7081	Treatment technologies for removal of per- and polyfluoroalkyl substances (PFAS) in biosolids	Garg A., Shetti N.P., Basu S., Nadagouda M.N., Aminabhavi T.M.	Garg, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, India; Shetti, N.P., School of Advanced Sciences, KLE Technological University, Vidyannagar, Karnataka, Hubballi, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Patiala, 147004, India, Affiliate Faculty—TIET-Virginia Tech Center of Excellence in Emerging Materials, India; Nadagouda, M.N., Department of Mechanical and Materials Engineering, Wright State University, Dayton, OH 45435, United States; Aminabhavi, T.M., School of Advanced Sciences, KLE Technological University, Vidyannagar, Karnataka, Hubballi, 580 031, India, University Center for Research & Development (UCRD), Chandigarh University, Gharuan, Panjab, Mohali, 140413, India, School of Engineering, UPES, Bidholi, Uttarakhand, Dehradun, 248 007, India	Chemical Engineering Journal	2023	13858947
7082	Low-rank GAT: toward robust quantification of neighborhood influence	Yadav R.K., Abhishek, Verma A., Shukla P., Verma K., Verma S.	Yadav, R.K., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Abhishek, Associate Principal AI operations, Accenture, Karnataka, Bangalore, India; Verma, A., Department of IT, Indian Institute of Information Technology Allahabad, Uttar Pradesh, Prayagraj, 211015, India; Shukla, P., Department of Computer Science and Engineering, United University, Uttar Pradesh, Prayagraj, India; Verma, K., Department of Computer Science, KIIT University, Odisha, Bhubaneswar, India; Verma, S., Department of IT, Indian Institute of Information Technology Allahabad, Uttar Pradesh, Prayagraj, 211015, India	Neural Computing and Applications	2023	9410643
7083	Parzen Window Approximation on Riemannian Manifold	Abhishek, Kumar Yadav R., Verma S.	Abhishek, Department of IT, Indian Institute of Information Technology Allahabad, Prayagraj, India; Kumar Yadav, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, S., Department of IT, Indian Institute of Information Technology Allahabad, Prayagraj, India	Pattern Recognition	2023	313203

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7084	Mitigating Jamming Attack in 5G Heterogeneous Networks: A Federated Deep Reinforcement Learning Approach	Sharma H., Kumar N., Tekchandani R.	Sharma, H., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, 147004, India; Kumar, N., The Csed, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Uttarakhand, Dehradun, India, Labanese American University, Department of Electrical and Computer Engineering, Beirut, Lebanon, King Abdulaziz University, Faculty of Computing and It, Jeddah, Saudi Arabia; Tekchandani, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, 147004, India	IEEE Transactions on Vehicular Technology	2023	189545
7085	Direct torque control of three-level five-phase inverter-fed five-phase induction motor with common-mode voltage elimination	Tatte Y., Paramane A.	Tatte, Y., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Paramane, A., Electrical Engineering Department, National Institute of Technology, Silchar, India	Electrical Engineering	2023	9487921
7086	Simple grounded and floating meminductor emulators based on VDGA and CDBA with application in adaptive learning circuit	Yadav N., Rai S.K., Pandey R.	Yadav, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rai, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Pandey, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Computational Electronics	2023	15698025
7087	Marine predator inspired naked mole-rat algorithm for global optimization	Salgotra R., Singh S., Singh U., Mirjalili S., Gandomi A.H.	Salgotra, R., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India, Department of Computer Science, Swansea University, Swansea, United Kingdom; Singh, S., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India, Department of ECE, Chandigarh University, Mohali, India; Singh, U., Department of ECE, Thapar Institute of Engineering & Technology, Patiala, India; Mirjalili, S., Center for Artificial Intelligence Research and Optimization, Torrens University, Australia; Gandomi, A.H., Faculty of Engineering and Information Technology, University of Technology, Sydney, Australia	Expert Systems with Applications	2023	9574174
7088	An Effective CT Medical Image Enhancement System Based on DT-CWT and Adaptable Morphology	Rao K., Bansal M., Kaur G.	Rao, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, G., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Circuits, Systems, and Signal Processing	2023	0278081X
7089	Sustainable Valorisation of Animal Manures via Thermochemical Conversion Technologies: An Inclusive Review on Recent Trends	Rout P.R., Pandey D.S., Haynes-Parry M., Briggs C., Manuel H.L.C., Umaphathi R., Mukherjee S., Panigrahi S., Goel M.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Pandey, D.S., Center for Rural Development and Innovative Sustainable Technology, Indian Institute of Technology Kharagpur, West Bengal, Kharagpur, India, Clean Hydrogen Limited, University of Surrey, Guildford, GU2 7XH, United Kingdom; Haynes-Parry, M., Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom; Briggs, C., Department of Chemical Engineering, Newcastle University, Newcastle upon Tyne, United Kingdom; Manuel, H.L.C., Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom; Umaphathi, R., Department of Biological Engineering, Inha University, Incheon, South Korea; Mukherjee, S., Energy Systems Catapult, Birmingham, United Kingdom; Panigrahi, S., Department of Biological and Chemical Engineering, Aarhus University, Høngøvej 2, Denmark; Goel, M., Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom	Waste and Biomass Valorization	2023	18772641
7090	Recent developments of image processing to improve explosive detection methodologies and spectroscopic imaging techniques for explosive and drug detection	Sharma M., Sharma B., Gupta A.K., Pandey D.	Sharma, M., Department of ECE, Chandigarh Group of Colleges, Landran, Mohali, India; Sharma, B., Department of ME, Thapar Institute of Engineering & Technology, Patiala, India; Gupta, A.K., Department of CSE, Chandigarh Group of Colleges, Landran, Mohali, India; Pandey, D., Department of Technical Education, Ganga Vihar Colony, Faizabad, 224001, India	Multimedia Tools and Applications	2023	13807501
7091	On Mechanical, Thermal, Morphological, and 4D Capabilities of Polyvinylidene Fluoride Nanocomposites: Effect of Mechanical and Chemical-Assisted Mechanical Blending	Sharma R., Singh R., Batish A., Ranjan N.	Sharma, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R., Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India; Batish, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Ranjan, N., Mechanical Engineering Department and University Centre for Research and Development, Chandigarh University, Punjab, India	Journal of Materials Engineering and Performance	2023	10599495
7092	Effect of processing parameters and heat treatment techniques on foaming properties of aluminium foam developed by friction stir processing route	Kumar M., Raj Singh R.K., Jain V.	Kumar, M., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Raj Singh, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Jain, V., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2023	14644207

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7093	Swarm Intelligence-based Modeling and Multi-objective Optimization of Welding Defect in Electron Beam Welding	Jaypuria S., Das A.K., Kanigalpula P.K.C., Das D., Pratihari D.K., Chakrabarti D., Jha M.N.	Jaypuria, S., Indian Institute of Technology Kharagpur, Kharagpur, India; Das, A.K., Indian Institute of Technology Kharagpur, Kharagpur, India; Kanigalpula, P.K.C., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Das, D., Indian Institute of Technology Kharagpur, Kharagpur, India; Pratihari, D.K., Department of Mechanical Engineering, Indian Institute of Technology Kharagpur, Kharagpur, India; Chakrabarti, D., Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur, Kharagpur, India; Jha, M.N., Power Beam Equipment Design Section, Bhabha Atomic Research Center, Mumbai, India	Arabian Journal for Science and Engineering	2023	2193567X
7094	Energy loss measurements of energetic ions in Ag foils in the energy region 1 MeV/n to 7 MeV/n	Kumar S., Rani S., Sharma P., Khan S.A., Diwan P.K.	Kumar, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Rani, S., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India; Sharma, P., TIET-VT Center for Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Khan, S.A., Inter University Accelerator Centre, Aruna Asaf Ali Marg, P.O. Box 10502, New Delhi, 110 067, India; Diwan, P.K., Department of Applied Science, UIET, Kurukshetra University, Kurukshetra, 136 119, India	Indian Journal of Physics	2023	9731458
7095	Multiple attributes group decision-making based on trigonometric operators, particle swarm optimization and complex intuitionistic fuzzy values	Rani D., Garg H.	Rani, D., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India	Artificial Intelligence Review	2023	2692821
7096	H O P L P – M U L: link prediction in multiplex networks based on higher order paths and layer fusion	Mishra S., Singh S.S., Kumar A., Biswas B.	Mishra, S., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Uttar Pradesh, Varanasi, India; Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, A., Department of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, India; Biswas, B., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Uttar Pradesh, Varanasi, India	Applied Intelligence	2023	0924669X
7097	Expectation-Based Probabilistic Naive Approach for Forecasting Involving Optimized Parameter Estimation	Ahuja S., Kumar A.	Ahuja, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Arabian Journal for Science and Engineering	2023	2193567X
7098	A hybrid method for improving the luminosity and contrast of color retinal images using the JND model and multiple layers of CLAHE	Rao K., Bansal M., Kaur G.	Rao, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, G., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Signal, Image and Video Processing	2023	18631703
7099	RoadWay: lane detection for autonomous driving vehicles via deep learning	Singal G., Singhal H., Kushwaha R., Veeramsetty V., Badal T., Lamba S.	Singal, G., Netaji Subhas University of Technology, Delhi, India; Singhal, H., IIT, Vadodara, India; Kushwaha, R., Bennett University, Greater Noida, India; Veeramsetty, V., Center for Artificial intelligence and deep learning, Department of electrical and Electronics Engineering, S R Engineering college, Warangal, India; Badal, T., Bennett University, Greater Noida, India; Lamba, S., Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
7100	Modified residual networks for severity stage classification of diabetic retinopathy	Sambyal N., Saini P., Syal R., Gupta V.	Sambyal, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saini, P., Department of Computer Science and Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Syal, R., Department of Computer Science and Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Gupta, V., Department of Computer Science and Engineering, Chandigarh College of Engineering and Technology, Chandigarh, 160019, India	Evolving Systems	2023	18686478
7101	Path Planning for Energy Management of Smart Maritime Electric Vehicles: A Blockchain-Based Solution	Barnawi A., Aggarwal S., Kumar N., Alghazzawi D.M., Alzahrani B., Boulares M.	Barnawi, A., King Abdulaziz University, Faculty of Computing and Information Technology, Jeddah, 21589, Saudi Arabia; Aggarwal, S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Kumar, N., King Abdulaziz University, Faculty of Computing and Information Technology, Jeddah, 21589, Saudi Arabia; Alghazzawi, D.M., King Abdulaziz University, Faculty of Computing and Information Technology, Jeddah, 21589, Saudi Arabia; Alzahrani, B., King Abdulaziz University, Faculty of Computing and Information Technology, Jeddah, 21589, Saudi Arabia; Boulares, M., King Abdulaziz University, Faculty of Computing and Information Technology, Jeddah, 21589, Saudi Arabia	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
7102	Response surface methodology for optimization of dry oxidative reforming for hydrogen enrichment of biogas	Sharma H., Dhir A.	Sharma, H., Enviro-Energy Research Lab, School of Energy and Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Dhir, A., Enviro-Energy Research Lab, School of Energy and Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Biomass Conversion and Biorefinery	2023	21906815

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7103	Fused filament fabrication: A comprehensive review	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Dept. of Mech. Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, R., Dept. of Mech. Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, T.P., Dept. of Mech. Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Batish, A., Dept. of Mech. Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Thermoplastic Composite Materials	2023	8927057
7104	Synthetic High-Resolution COVID-19 Chest X-Ray Generation	Kaur S., Kumar S., Homayouni H.	Kaur, S., Department of Computer Engineering, Thapar Institute of Engg. and Tech., India; Kumar, S., Department of Computer Engineering, Thapar Institute of Engg. and Tech., India; Homayouni, H., Department of Computer Science, San Diego State University, United States	ACM International Conference Proceeding Series	2023	
7105	Effect of plasmonic metal (Cu, Ag, and Au) loading over the physicochemical and photocatalytic properties of Mg-Al LDH towards degradation of tetracycline under LED light	Kaur H., Singh S., Pal B.	Kaur, H., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Singh, S., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Pal, B., School of Chemistry and Bio-Chemistry, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Applied Surface Science	2023	1694332
7106	An Electronically Tunable Meminductor Emulator and Its Application in Chaotic Oscillator and Adaptive Learning Circuit	Yadav N., Rai S.K., Pandey R.	Yadav, N., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Pandey, R., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Circuits, Systems and Computers	2023	2181266
7107	Citrate and glutathione capped gold nanoparticles for electrochemical immunosensing of atrazine: Effect of conjugation chemistry	Vaid K., Dhiman J., Kumar S., Kumar V.	Vaid, K., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab140306, India, Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh, 160014, India, CSIR-Central Scientific Instruments Organisation, Sector 30-C, Chandigarh, 160030, India; Dhiman, J., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab140306, India; Kumar, S., Department of Applied Sciences, UIET, Panjab University, Chandigarh, 160014, India; Kumar, V., National Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab140306, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Environmental Research	2023	139351
7108	The assessment of graphitic carbon nitride (g-C3N4) materials for hydrogen evolution reaction: Effect of metallic and non-metallic modifications	Sun Y., Kumar V., Kim K.-H.	Sun, Y., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04673, South Korea; Kumar, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 04673, South Korea	Separation and Purification Technology	2023	13835866
7109	Facilitating peroxydisulfate activation for effective antibiotics degradation from drinking water by photoelectrocatalytic system using MoS2 embedded carbon substrate	Zheng Z., Zhang Z., Wong K.C.J., Lung C.W., Khan M., He J., Kumar A., Lo I.M.C.	Zheng, Z., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong; Zhang, Z., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong; Wong, K.C.J., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong; Lung, C.W., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong; Khan, M., Institute of Environmental Sciences and Engineering (IESE), Scholl of Civil and Environmental Engineering (SCEE), National University of Sciences and Technology (NUST), Sector H-12, Islamabad, Pakistan; He, J., School of Environmental and Chemical Engineering, Foshan University, Guangdong, Foshan, 528000, China; Kumar, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Lo, I.M.C., Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, Institute for Advanced Study, The Hong Kong University of Science and Technology, Hong Kong	Chemical Engineering Journal	2023	13858947
7110	Alkali field strength effects on optical, dielectric, and conducting properties of calcium borosilicate glasses	Bansal N., Khan S., Sharma G., Rajni, Kumar D., Singh K.	Bansal, N., Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal148106, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Khan, S., Department of Physics, RIMT University, Punjab, Mandi Gobindgarh, Fatehgarh Sahib, 147301, India; Sharma, G., Nanoscale Research Facility (NRF), Indian Institute of Technology Delhi (IITD), Hauz Khas, New Delhi, 110016, India; Rajni, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, D., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Ceramics International	2023	2728842

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7111	SanJeeVni: Secure UAV-Envisioned Massive Vaccine Distribution for COVID-19 Underlying 6G Network	Verma A., Bhattacharya P., Saraswat D., Tanwar S., Kumar N., Sharma R.	Verma, A., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Gujarat, Ahmedabad, 382481, India; Bhattacharya, P., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Gujarat, Ahmedabad, 382481, India; Saraswat, D., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Gujarat, Ahmedabad, 382481, India; Tanwar, S., Institute of Technology, Nirma University, Department of Computer Science and Engineering, Gujarat, Ahmedabad, 382481, India; Kumar, N., Asia University, Department of Computer Science and Information Engineering, Taichung, 413, Taiwan, King Abdulaziz University, Department of Computer Science and Engineering, Jeddah, 21589, Saudi Arabia, Department of Computer Science Engineering, Thapar Institute of Engineering and Technology, Patiala, 146004, India; Sharma, R., University of Petroleum and Energy Studies, Centre for Inter-Disciplinary Research and Innovation, Dehradun, 248001, India	IEEE Sensors Journal	2023	1530437X
7112	Influence of milling parameters on the properties of ground coal bottom ash and its blended cement	Cheah C.B., Liew J.J., Kevin K.L.P., Siddique R., Tangchirapat W.	Cheah, C.B., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Liew, J.J., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Kevin, K.L.P., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tangchirapat, W., Construction Innovations and Future Infrastructures Research Center (CIFIR), Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Thailand	Construction and Building Materials	2023	9500618
7113	Regulation of cytokines in wound healing by silk fibroin	Sharda D., Attri K., Choudhury D.	Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Attri, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Centre of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology and Virginia Tech, Patiala, Punjab, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India, Centre of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology and Virginia Tech, Patiala, Punjab, India	Silk Fibroin: Advances in Applications and Research	2023	
7114	Ensemble CNN Attention-Based BiLSTM Deep Learning Architecture for Multivariate Cloud Workload Prediction	Kaim A., Singh S., Patel Y.S.	Kaim, A., Csed, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Csed, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Patel, Y.S., Csed, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	ACM International Conference Proceeding Series	2023	
7115	Towards Post-disaster Damage Assessment using Deep Transfer Learning and GAN-based Data Augmentation	Banerjee S., Patel Y.S., Kumar P., Bhuyan M.	Banerjee, S., Department of Computing Science, Umeå University, Sweden; Patel, Y.S., Thapar Institute of Engineering & Technology, India; Kumar, P., Indian Institute of Information Technology, Ranchi, India; Bhuyan, M., Department of Computing Science, Umeå University, Sweden	ACM International Conference Proceeding Series	2023	
7116	Drilling Strategies for Additively Manufactured and Casted SS316L Stainless Steel	Singh E., Singh A.K., Durga Prasad Reddy R., Sharma V.	Singh, E., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, A.K., Additive and Subtractive Manufacturing Lab, Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee, India; Durga Prasad Reddy, R., Additive and Subtractive Manufacturing Lab, Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee, India; Sharma, V., Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee, India	Journal of Materials Engineering and Performance	2023	10599495
7117	Camera Based Wearable Devices: A Strategic Survey from 2010 to 2021	Brar S.S., Jindal N.	Brar, S.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Wireless Personal Communications	2023	9296212
7118	Multi-attribute group decision-making algorithm based on intuitionistic fuzzy rough Schweizer-Sklar aggregation operators	Garg H., Hussain A., Ullah K.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Hussain, A., Department of Mathematics, Riphah International University Lahore, 54000, Lahore, Pakistan; Ullah, K., Department of Mathematics, Riphah International University Lahore, 54000, Lahore, Pakistan	Soft Computing	2023	14327643
7119	Emerging artificial intelligence applications: metaverse, IoT, cybersecurity, healthcare - an overview	Sharma N., Jindal N.	Sharma, N., Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, 140401, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
7120	MuP-SciDocSum: Leveraging Multi-perspective Peer Review Summaries for Scientific Document Summarization	Kumar S., Kohli G.S., Ghosal T., Ekbal A.	Kumar, S., Department of Computer Science and Engineering, Indian Institute of Technology Patna, Patna, India; Kohli, G.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Ghosal, T., National Center for Computational Sciences, Oak Ridge National Laboratory, Oak Ridge, United States; Ekbal, A., Department of Computer Science and Engineering, Indian Institute of Technology Patna, Patna, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2023	3029743
7121	Residual Stress Analysis in Titanium Alloys Used for Biomedical Applications	Kumar G., Kumar R., Singh A.	Kumar, G., Birla Institute of Technology & Science, Pilani-Dubai Campus, Dubai, United Arab Emirates; Kumar, R., Dr. B R Ambedkar National Institute of Technology, Punjab, Jalandhar, India; Singh, A., Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Advanced Materials and Manufacturing Techniques for Biomedical Applications	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7122	Communication and Measurement Technologies for Smart Grid	Gaur V.K., Paul S.	Gaur, V.K., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, India; Paul, S., Washington State University, Pullman, WA, United States	Big Data Analytics Framework for Smart Grids	2023	
7123	An Effective CNN-Based Method for Camera Model Identification in Privacy Preserving Settings	Rana K., Rathi V., Goyal P.	Rana, K., Indian Institute of Technology Ropar, Computer Science and Engineering, Punjab, India; Rathi, V., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Punjab, India; Goyal, P., Indian Institute of Technology Ropar, Computer Science and Engineering, Punjab, India	2023 IEEE International Conference on Image Processing Challenges and Workshops, ICIPCW 2023 - Proceedings	2023	
7124	Discriminating among inverse Weibull, lognormal, and inverse Gaussian distributions	Diyali B., Kumar D., Singh S.	Diyali, B., Department of Statistics, Central University of Haryana, Haryana, India; Kumar, D., Department of Statistics, Central University of Haryana, Haryana, India; Singh, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Quality and Reliability Engineering International	2023	7488017
7125	Emergence of AI enabled smart buildings in India: a road towards sustainable performance	Gupta A., Tandon U.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Tandon, U., Chitkara Business School, Chitkara University, Rajpura, India	Global Knowledge, Memory and Communication	2023	25149342
7126	Structural, luminescent and in vitro studies of europium-doped soda lime phosphate glasses	Priya R., Kaur D., Attri K., Kaur S., Sharda D., Choudhury D., Pandey O.P.	Priya, R., Department of Physics, University Institute of Sciences, Chandigarh University, Punjab, Mohali, India; Kaur, D., DII, University of Trento, Trento, Italy; Attri, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, S., Department of Physics, Kanya Maha Vidyalaya, Punjab, Jalandhar, India; Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Pandey, O.P., Functional Material Laboratory, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Luminescence	2023	15227235
7127	Advances in the concept of functional foods and feeds: applications of cinnamon and turmeric as functional enrichment ingredients	Kumar H., Dhalaria R., Guleria S., Sharma R., Cimler R., Dhanjal D.S., Chopra C., Kumar V., Manickam S., Siddiqui S.A., Kaur T., Verma N., Kumar Pathera A., Kuča K.	Kumar, H., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech Republic; Dhalaria, R., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, India; Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R., School of Bioengineering & Food Technology, Shoolini University of Biotechnology and Management Sciences, Solan, India; Cimler, R., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech Republic; Dhanjal, D.S., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, India; Chopra, C., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, India; Kumar, V., Central Ayurveda Research Institute, Uttar Pradesh, Jhansi, India; Manickam, S., Petroleum and Chemical Engineering, Faculty of Engineering, Universiti Teknologi Brunei, Bandar Seri Begawan, Brunei Darussalam; Siddiqui, S.A., Campus Straubing for Biotechnology and Sustainability, Technical University of Munich, Straubing, Germany; Kaur, T., Department of Microbiology, DAV University, Sarmastpur, Punjab, Jalandhar, India; Verma, N., School of Management and Liberal Arts, Shoolini University of Biotechnology and Management Sciences, Solan, India; Kumar Pathera, A., Amity Institute of Food Technology, Amity University, Noida, India; Kuča, K., Andalusian Research Institute in Data Science and Computational Intelligence (DaSCI), University of Granada, Granada, Spain, Department of Chemistry, Faculty of Science, University of Hradec Kralove, Kralove, Hradec, Czech Republic	Critical Reviews in Food Science and Nutrition	2023	10408398
7128	Csa-gru: a hybrid CNN and self attention GRU for human identification using ear biometrics	Mahajan A., Singla S.K.	Mahajan, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Evolving Systems	2023	18686478
7129	Enhancing Performance of Deep Learning Models with a Novel Data Augmentation Approach	Sengupta P., Mehta A., Rana P.S.	Sengupta, P., Thapar Institute of Engineering and Technology, Csed, Patiala, India; Mehta, A., Thapar Institute of Engineering and Technology, Csed, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Csed, Patiala, India	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023	2023	
7130	A Brief Survey on Simulators for Designing Routing Protocol for Wireless Sensor Network	Verma S., Kaur S., Gupta A.D.	Verma, S., Indian Institute of Technology Kharagpur, Gs Sanyal School of Telecommunication, West Bengal 721302, India; Kaur, S., Thapar Institute of Engineering and Technology, Department of Ece, Patiala, India; Gupta, A.D., Amity University, Department of Cse, Greater Noida, India	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7131	Classification of Ocular Diseases using Retinal Fundus Images by Leveraging Advance Transfer Learning and Deep Learning Techniques	Kher G., Singh V., Dabas N., Bala R.	Kher, G., University of Delhi, Kirori Mal College, Department of Computer Science, Delhi, India; Singh, V., Thapar Institute of Engineering and Technology, Department of Electronic and Communication, Patiala, India; Dabas, N., University of Delhi, Shyam Lal College, Department of Computer Science, Delhi, India; Bala, R., University of Delhi, Ddug, Department of Computer Science, Delhi, India	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023	2023	
7132	Popularity-Driven Optimized Caching Scheme for Content-Centric Networking	Kumar S., Tiwari R., Singh P.	Kumar, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Tiwari, R., University of Petroleum and Energy Studies, Department of Systemics, Dehradun, India; Singh, P., Graphic Era Hill University, Computer Science and Engineering Department, Dehradun, India	2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023	2023	
7133	AgriResponse: A real-time agricultural query-response generation system for assisting nationwide farmers	Godara S., Bedi J., Parsad R., Singh D., Bana R.S., Marwaha S.	Godara, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Bedi, J., Thapar Institute of Engineering and Technology, Punjab, India; Parsad, R., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Singh, D., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Bana, R.S., ICAR-Indian Agricultural Research Institute, New Delhi, India; Marwaha, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India	IEEE Access	2023	21693536
7134	A secure blockchain framework for the internet of medical things	Sharma A., Kaur S., Singh M.	Sharma, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Transactions on Emerging Telecommunications Technologies	2023	21613915
7135	Multimedia datasets for anomaly detection: a review	Kumari P., Bedi A.K., Saini M.	Kumari, P., Department of Computer Science and Engineering, IIT Ropar, Punjab, Ropar, 140001, India; Bedi, A.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Saini, M., Department of Computer Science and Engineering, IIT Ropar, Punjab, Ropar, 140001, India	Multimedia Tools and Applications	2023	13807501
7136	Design of EV Traction Inverter based BLDC Motor Drive	Kumar H., Singh V., Sonar S.	Kumar, H., Indian Institute of Technology Jodhpur, Department of Electrical Engineering, Rajasthan, Jodhpur, India; Singh, V., Thapar Institute of Engineering & Technology Patiala, Department of Electrical & Instrumentation Engineering, Punjab, Patiala, India; Sonar, S., Thapar Institute of Engineering & Technology Patiala, Department of Electrical & Instrumentation Engineering, Punjab, Patiala, India	IECON Proceedings (Industrial Electronics Conference)	2023	21624704
7137	A Self-Balanced Five-Level Buck PFC EV Rectifier	Agarwal R., Jain A., Gupta K.K., Jain S.K., Bhatnagar P., Ibanez F.M., Nikolovski S.	Agarwal, R., Thapar Institute of Engineering & Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Jain, A., Thapar Institute of Engineering & Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Gupta, K.K., Thapar Institute of Engineering & Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Jain, S.K., Thapar Institute of Engineering & Technology, Department of Electrical and Instrumentation Engineering, Patiala, India; Bhatnagar, P., Manipal Institute of Technology, Mahe, Department of Mechatronics, Manipal, India; Ibanez, F.M., Center for Energy Science and Technology, Skolkovo Institute of Science and Technology, Moscow, Russian Federation; Nikolovski, S., Faculty of Electrical Engineering, Computer Science and Information Technology, Osijek, Croatia	IECON Proceedings (Industrial Electronics Conference)	2023	21624704
7138	Parallel Active Charge Balance Technique of Li-Ion Batteries Using Combined Phase Shifted and Boost DC-DC Converter	Ahmad A., Singh V., Teja A.V.R., Payami S.	Ahmad, A., IIT Ropar, Dept. of Electrical Engineering, Rupnagar, India; Singh, V., Dept. of Electrical Engineering (TIET), Patiala, India; Teja, A.V.R., IIT Ropar, Dept. of Electrical Engineering, Rupnagar, India; Payami, S., IIT Ropar, Dept. of Electrical Engineering, Rupnagar, India	IECON Proceedings (Industrial Electronics Conference)	2023	21624704
7139	A Study on Employing Various Tools for Teaching Power Electronics Undergraduate Students	Singh Y., Singh S., Bhatnagar P., Malik M., Dewangan N.K., Gupta K.K.	Singh, Y., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Patiala, India; Singh, S., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Patiala, India; Bhatnagar, P., Manipal Institute of Technology, Department of Mechatronics, Manipal, India; Malik, M., Chandigarh University, Department of Computer Science, Mohali, India; Dewangan, N.K., Manipal Institute of Technology, Department of Mechatronics, Manipal, India; Gupta, K.K., Thapar Institute of Engineering & Technology, Electrical & Instrumentation Engineering Department, Patiala, India	IECON Proceedings (Industrial Electronics Conference)	2023	21624704
7140	A multilayered framework for diagnosis and classification of Alzheimer's disease using transfer learned Alexnet and LSTM	Goyal P., Rani R., Singh K.	Goyal, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Singh, K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Neural Computing and Applications	2023	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7141	Sustainable production of advanced biofuel and platform chemicals from woody biomass	Lugani Y., Kaur Brar S., Kaur Y., Singh B.P., Kumar D., Kumar S.	Lugani, Y., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Haryana, Sonapat, India, Technology Information, Forecasting and Assessment Council (TIFAC), New Delhi, India; Kaur Brar, S., Department of Biotechnology, Guru Nanak College, Punjab, Sri Muktsar Sahib, India; Kaur, Y., Molecular Biology Laboratory, Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Singh, B.P., Department of Agriculture and Environmental Sciences, National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Haryana, Sonapat, India; Kumar, D., Department of Chemical Engineering, State University of New York College of Environmental Science and Forestry, Syracuse, NY, United States; Kumar, S., Biochemical Conversion Division, Sardar Swaran Singh National Institute of Bio-Energy, Wadala Kalan, Punjab, Kapurthala, India	Sustainable Biorefining of Woody Biomass to Biofuels and Biochemicals	2023	
7142	Surfactant-assisted synthesis of zero-dimensional iron nanomaterial for cellobiose hydrolysis	Singh H., Sinha A.K., Kour S., Barheyana S.S., Goel G., Mishra J.	Singh, H., RIMT University, School of Basic & Applied Science (Chemistry Department), Punjab 147301, Mandi Gobindgarh, India, CSIR-Indian Institute of Petroleum, Dehradun, 248005, India; Sinha, A.K., CSIR-Indian Institute of Petroleum, Dehradun, 248005, India; Kour, S., RIMT University, School of Basic & Applied Science (Chemistry Department), Punjab 147301, Mandi Gobindgarh, India; Barheyana, S.S., Department of Chemistry, Government College for Women, J&K, Udhampur, 182101, India; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mishra, J., RIMT University, School of Basic & Applied Science (Chemistry Department), Punjab 147301, Mandi Gobindgarh, India, School of Biosciences, RIMT University, Mandi Gobindgarh, Punjab 147301, India	Materials Advances	2023	26335409
7143	Analysis of Glucose-Insulin Dynamics as an Integrator in Type 1 Diabetes	Singh J., Kamboj S., Saxena S.	Singh, J., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Kamboj, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Saxena, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	2023 International Conference on Sustainable Emerging Innovations in Engineering and Technology, ICSEIET 2023	2023	
7144	Resource-Efficient QoS-Aware Video Streaming Using UAV-Assisted Networks	Bhar C., Ghosh D., Agrell E.	Bhar, C., Department of Electronics and Communication Engineering, National Institute of Technology Warangal, Telangana, India; Ghosh, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Agrell, E., Department of Electrical Engineering, Chalmers University of Technology, Gothenburg, Sweden	IEEE Transactions on Cognitive Communications and Networking	2023	23327731
7145	Magnetic Hyperthermia of Polyvinylpyrrolidone Coated La _{0.6} Sr _{0.4} MnO ₃ Nanoparticles Synthesized by Sol-Gel Auto Combust Method	Yashpreet, Chudasama B.	Yashpreet, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Nano Research	2023	16625250
7146	A voting ensemble machine learning based credit card fraud detection using highly imbalance data	Chhabra R., Goswami S., Ranjan R.K.	Chhabra, R., School of Computing, DIT University, Uttarakhand, Dehradun, 248009, India; Goswami, S., School of Computing, DIT University, Uttarakhand, Dehradun, 248009, India; Ranjan, R.K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
7147	Optimization of friction stir processing parameters for improving structural and mechanical properties in in situ AA5083-H111/Al-Fe composites	Singhal V., Jain V.K., Raman R.S., Patharia D., Mittal V., Mishra S., Kumar H.	Singhal, V., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, India; Jain, V.K., Department of Mechanical Engineering, Institute of Technology and Management, Uttar Pradesh, Maharajganj, India; Raman, R.S., Department of Mechanical Engineering, ABES Engineering College, Uttar Pradesh, Ghaziabad, India; Patharia, D., Department of Mechanical Engineering, ABES Engineering College, Uttar Pradesh, Ghaziabad, India; Mittal, V., Department of Electronics and Communication Engineering, Chandigarh University, Punjab, Mohali, India; Mishra, S., Department of Mechanical Engineering, IMS Engineering College, Uttar Pradesh, Ghaziabad, India; Kumar, H., Mechanical Engineering Department, TIET, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
7148	Child development beyond the nutrition-specific models: bridging the pathways via psychosocial stimulation	David B.E., Kumar S.	David, B.E., Thapar School of Liberal Arts and Sciences, Thapar University, Punjab, Patiala, India; Kumar, S., Department of Psychology, School of Arts, University of Allahabad, Uttar Pradesh, India	Frontiers in Psychology	2023	16641078
7149	A Blockchain-Based Custom Clearance Solution for International Trade Using IPFS and Non-fungible Tokens	Rehal M., Ahuja R., Gandhi D., Sharma A.	Rehal, M., Thapar Institute of Engineering and Technology Patiala, Patiala, India; Ahuja, R., Thapar Institute of Engineering and Technology Patiala, Patiala, India; Gandhi, D., Thapar Institute of Engineering and Technology Patiala, Patiala, India; Sharma, A., Thapar Institute of Engineering and Technology Patiala, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7150	Implementation of Artificial Intelligence in Diagnosing Employees Attrition and Elevation: A Case Study on the IBM Employee Dataset	Sharma S., Bhat R.	Sharma, S., Thapar Institute of Engineering & Technology, Patiala, India; Bhat, R., Department of Journalism and Mass Communication, Amity University, Kolkata, India	The Adoption and Effect of Artificial Intelligence on Human Resources Management, Part A	2023	
7151	A Rand Index-Based Analysis of Consensus Protocols	Roy S., Shyamasundar R.K.	Roy, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shyamasundar, R.K., Department of Computer Science and Engineering, Indian Institute of Technology Bombay, Maharashtra, Mumbai, India	Proceedings of the International Conference on Security and Cryptography	2023	21847711

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7152	Highly resilient 17-level fault-tolerant multilevel inverter topology with reduced capacitor size	Chappa A., Gupta S., Sahu L.K., Gupta K.K., Allamsetty H.	Chappa, A., Department of Electrical and Electronics Engineering, Sri Vasavi Engineering College (A), Andhra Pradesh, Tadepalligudem, India; Gupta, S., Department of Electrical Engineering, National Institute of Technology Raipur, Chhattisgarh, Raipur, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology Raipur, Chhattisgarh, Raipur, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Allamsetty, H., Department of Electrical and Electronics Engineering, National Institute of Technology Puducherry, Puducherry, Karaikal, India	International Journal of Circuit Theory and Applications	2023	989886
7153	Internet of Things adoption: unpacking the role of perceived brand credibility	Dutta A., Kovid R.K., Drave V.A., Bhatia M.S.	Dutta, A., Department of Management, NIIT University, Alwar, India; Kovid, R.K., School of Business Studies, Sharda University, Greater Noida, India; Drave, V.A., Jindal Global Business School, Jindal Global University, OP, Sonapat, India; Bhatia, M.S., L. M. Thapar School of Management, Thapar University, Patiala, India	Global Knowledge, Memory and Communication	2023	25149342
7154	CONVERGENCE, OPTIMAL POINTS AND APPLICATIONS	Sharma S., Chandok S.	Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Miskolc Mathematical Notes	2023	17872405
7155	Production of silica nanoparticles from rice husk and rice straw by fungal-mediated biotransformation using <i>Pleurotus florida</i>	Kaur D., Pandey O.P., Reddy M.S.	Kaur, D., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, Department of Industrial Engineering, University of Trento, Trento, Italy; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Biomass Conversion and Biorefinery	2023	21906815
7156	Analysis of highly frequent point mutations in glycoprotein C, glycoprotein N, and nucleoprotein of CCHFV	Kaushal N., Baranwal M.	Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Biotechnology and Applied Biochemistry	2023	8854513
7157	Significance of N bonding configurations in N-doped graphene for enhanced supercapacitive performance: A comparative study in aqueous electrolytes	Ajratvat K., Pandey O.P., Brar L.K.	Ajratvat, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	FlatChem	2023	24522627
7158	Corrigendum to "A novel minutiae triangulation technique for non-invertible fingerprint template generation" [Expert Syst. Appl. 186 (2021) 115832] (Expert Systems With Applications (2021) 186, (S0957417421011957), (10.1016/j.eswa.2021.115832))	Trivedi A.K., Thounaojam D.M., Pal S.	Trivedi, A.K., Department of Computer Science and Engineering, National Institute of Technology, Silchar, India, Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Thounaojam, D.M., Department of Computer Science and Engineering, National Institute of Technology, Silchar, India; Pal, S., Department of Computer Science and Engineering, National Institute of Technology, Silchar, India	Expert Systems with Applications	2023	9574174
7159	Federated Learning Based Task Orchestration Scheme Using Intelligent Vehicular Edge Networks	Bansal N., Mittal S., Bali R.S., Kumar N., Rodrigues J., Zhao L.	Bansal, N., Computer Science & Engineering, Chandigarh University, India; Mittal, S., University Institute of Computing, Chandigarh University, India; Bali, R.S., Computer Science & Engineering, Chandigarh University, India; Kumar, N., Thapar University, Department of Computer Science Engineering, Punjab, Patiala, India; Rodrigues, J., China University of Petroleum (East China), Qingdao, 266555, China, Instituto de Telecomunicações, Covilhã, 6201-001, Portugal; Zhao, L., Shenyang Aerospace University, China	IEEE International Conference on Communications	2023	15503607
7160	An optimized boosting framework for skin lesion segmentation and classification	Yadav A.K., Mehta R., Kumar V., Medikundu N.R.	Yadav, A.K., GL Bajaj Institute of Technology and Management, Greater Noida, 201306, India; Mehta, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Kumar, V., Department of Computer Science and Engineering, Galgotias College of Engineering and Technology, Uttar Pradesh, Greater Noida, 201310, India; Medikundu, N.R., Department of Mechanical Engineering, Koneru Lakshminiah Education Foundation, Andhra, Pradesh, Vaddeswaram, 522302, India	Multimedia Tools and Applications	2023	13807501
7161	Federated Learning Based Trajectory Optimization for UAV Enabled MEC	Nehra A., Consul P., Budhiraja I., Kaur G., Nasser N., Imran M.	Nehra, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Consul, P., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Kaur, G., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Nasser, N., College of Engineering, Alfaisal University, Riyadh, Saudi Arabia; Imran, M., Institute of Innovation, Science and Sustainability, Federation University, Brisbane, Australia	IEEE International Conference on Communications	2023	15503607

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7162	Ergodic Capacity of Two-Way UAV-Aided Integrated Space-Air-Ground Network with NOMA	Shuai H., Guo K., Cao H., Lin Z., Kumar N., Rodrigues J.J.P.C.	Shuai, H., School of Space Information, Space Engineering University, Beijing, China; Guo, K., School of Space Information, Space Engineering University, Beijing, China; Cao, H., Hong Kong Polytechnic University, Department of Computing, Hong Kong; Lin, Z., College of Electronic Engineering, University of Defense Technology, Hefei, China; Kumar, N., Thapar University, Department of Computer Engineering, Punjab, Patiala, India; Rodrigues, J.J.P.C., College of Computer Science and Technology, China University of Petroleum (East China), China, Instituto de Telecomunicações, Covilhã, 6201-001, Portugal	IEEE International Conference on Communications	2023	15503607
7163	CROP: Cluster-Based Routing Using Optimized Framework for IoT-Based Precision Agriculture	Verma S., Kaur S., Adhya A., Kaddoum G., Brik B.	Verma, S., Gs Sanyal School of Telecommunication, IIT Kharagpur, West Bengal 721302, India; Kaur, S., Thapar Institute of Engineering & Technology, Department of ECE, Punjab, Patiala, India; Adhya, A., Gs Sanyal School of Telecommunication, IIT Kharagpur, West Bengal 721302, India; Kaddoum, G., École de Technologie Supérieure (ÉTS), Electrical Engineering Department, Montreal, QC H3C 1K3, Canada; Brik, B., University of Bourgogne Franche-Comté, Drive EA1859, Nevers, 58000, France	IEEE International Conference on Communications	2023	15503607
7164	Integrating extrusion process and additive manufacturing for biomedical breakthroughs	Sharma S., Mudgal D., Gupta V.	Sharma, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal on Interactive Design and Manufacturing	2023	19552513
7165	Resource Allocation in Multi-Cell Integrated Sensing and Communication Systems: A DRL Approach	Wang X., Wu H., Xu Y., Cao H., Kumar N., Rodrigues J.J.P.C.	Wang, X., School of Communication and Information Engineering, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Wu, H., School of Communication and Information Engineering, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Xu, Y., School of Communication and Information Engineering, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China; Cao, H., The Hong Kong Polytechnic University, Department of Computing 999077, Hong Kong; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Rodrigues, J.J.P.C., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China, Instituto de Telecomunicações, Covilhã, 6201-001, Portugal	IEEE International Conference on Communications	2023	15503607
7166	Active-Passive Cascaded RIS-Assisted Receiver Design for Anti-Jamming Communications	Sun Y., Zhu Y., Cao H., Lin Z., An K., Kumar N., Obaidat M.S., Wang J.	Sun, Y., The Sixty-third Research Institute, National University of Defense Technology, Nanjing, China; Zhu, Y., The Sixty-third Research Institute, National University of Defense Technology, Nanjing, China; Cao, H., Hong Kong Polytechnic University, Department of Computing, Hong Kong; Lin, Z., College of Electronic Engineering, National University of Defense Technology, Hefei, China; An, K., The Sixty-third Research Institute, National University of Defense Technology, Nanjing, China; Kumar, N., Thapar University, Department of Computer Science Engineering, Punjab, Patiala, India; Obaidat, M.S., University of Texas-Permian Basin, Department of Computer Science, United States; Wang, J., School of Engineering, University of Kent, Canterbury, United Kingdom	IEEE International Conference on Communications	2023	15503607
7167	Influence of Planar Confinement on Momentum and Heat Transfer from a Bluon-Headed Cylinder to Generalized Newtonian Fluids	Kaur J., Chandra A., Arya R.K., Ratan J.K., Tiwari A.K.	Kaur, J., Dr. B.R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India; Chandra, A., Thapar Institute of Engineering & Technology, Department of Chemical Engineering, Patiala, 147004, India; Arya, R.K., Dr. B.R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India; Ratan, J.K., Dr. B.R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India; Tiwari, A.K., Dr. B.R. Ambedkar National Institute of Technology, Department of Chemical Engineering, Punjab, Jalandhar, 144011, India	Chemical Engineering and Technology	2023	9307516
7168	A meta-heuristics based framework of cluster label optimization in MR images using stable random walk	Srivastava V., Singh S.S.	Srivastava, V., School of Computer Science Engineering and Technology, Bennett University, Greater Noida, India; Singh, S.S., Department of Computer Science & Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
7169	Improving accuracy using ML/DL in vision based techniques of ISLR	Singla V., Bawa S., Singh J.	Singla, V., Department of Computer Science, Thapar Institute of Engineering and Technology, Adarsh Nagar, Punjab, Patiala, 147004, India; Bawa, S., Department of Computer Science, Thapar Institute of Engineering and Technology, Adarsh Nagar, Punjab, Patiala, 147004, India; Singh, J., Department of Computer Science, Thapar Institute of Engineering and Technology, Adarsh Nagar, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
7170	Corrosion and Metallurgical Behavior of Wire Arc Additively Manufactured Functionally Graded Superduplex Stainless Steel/Inconel 625	Kaur H., Kumar S., Malhotra D., Nanda T.	Kaur, H., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Kumar, S., Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, 148106, India; Malhotra, D., Department of Mechanical Engineering, Indian Institute of Technology Jammu, Jammu and Kashmir, Jgati, 181221, India; Nanda, T., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India	Journal of Materials Engineering and Performance	2023	10599495
7171	Bioprospecting Microalgae from Sewage Water: Assessment of Biochemicals for Biomass Utilization	Halder N., Goyal D., Aneja R.K.	Halder, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Goyal, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Bhadson Road, Punjab, Patiala, 147004, India; Aneja, R.K., Abca BioSolutions Pvt. Ltd., 136 Market Ave, Winnipeg, MB R3B 3N2, Canada	Molecular Biotechnology	2023	10736085

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7172	Private Blockchain Envisioned Access Control System for Securing Industrial IoT-Based Pervasive Edge Computing	Saha S., Bera B., Das A.K., Kumar N., Islam S.H., Park Y.	Saha, S., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Bera, B., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Das, A.K., International Institute of Information Technology, Center for Security, Theory and Algorithmic Research, Hyderabad, 500032, India; Kumar, N., Thapar University, Department of Computer Science and Engineering, Patiala, 147004, India; Islam, S.H., Indian Institute of Information Technology Kalyani, Department of Computer Science and Engineering, West Bengal, Kalyani, 741235, India; Park, Y., Kyungpook National University, School of Electronics Engineering, Daegu, 41566, South Korea	IEEE Access	2023	21693536
7173	Multi-Target-Aware Dynamic Resource Scheduling for Cloud-Fog-Edge Multi-Tier Computing Network	Zhang P., Chen N., Xu G., Kumar N., Barnawi A., Guizani M., Duan Y., Yu K.	Zhang, P., College of Computer Science and Technology, Qingdao Institute of Software, China University of Petroleum (East China), Qingdao, China; Chen, N., School of Information and Communication Engineering, Beijing University of Posts and Telecommunications, Beijing, China; Xu, G., State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, China; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, India; Barnawi, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Guizani, M., Machine Learning Department, Mohamed bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, United Arab Emirates; Duan, Y., College of Computer Science and Technology, Qingdao Institute of Software, China University of Petroleum (East China), Qingdao, China; Yu, K., Graduate School of Science and Engineering, Hosei University, Tokyo, Japan	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
7174	An Optimized Approach for Intrusion Detection in Internet of Software Things	Gaba S., Nehra A., Budhiraja I., Kumar V., Singh A.M.	Gaba, S., Panipat Institute of Engineering and Technology, Panipat, India; Nehra, A., Thapar University, Patiala, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, U.P., Greater Noida, India; Kumar, V., School of Computer Science Engineering and Technology, Bennett University, U.P., Greater Noida, India; Singh, A.M., College of Science and Engineering, University of Derby, Department of Computing and Mathematics, United Kingdom	2023 IEEE International Conference on Communications Workshops: Sustainable Communications for Renaissance, ICC Workshops 2023	2023	
7175	Fractional-Order Polynomial Generation for Path Tracking of Delta Robot Through Specific Point	Upadhyay D., Pandey S., Upadhyay R.K.	Upadhyay, D., Mangalayatan University, Uttar Pradesh, Aligarh, India; Pandey, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Upadhyay, R.K., Mangalayatan University, Uttar Pradesh, Aligarh, India	Lecture Notes in Electrical Engineering	2023	18761100
7176	Bioactive nutraceuticals as G4 stabilizers: potential cancer prevention and therapy—a critical review	Choudhury S.D., Kumar P., Choudhury D.	Choudhury, S.D., Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, P., School of Basic Sciences, Indian Institute of Technology (IIT), Himachal Pradesh, Mandi, 175005, India; Choudhury, D., Department of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Centre for Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Naunyn-Schmiedeberg's Archives of Pharmacology	2023	281298
7177	A data-driven ensemble machine learning approach for predicting the mechanical strength of 3D printed orthopaedic bone screws	Agarwal R., Singh J., Gupta V.	Agarwal, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
7178	iDP: ML-driven diabetes prediction framework using deep-ensemble modeling	Kumar A., Bawa S., Kumar N.	Kumar, A., Faculty of Information Technology, Gopal Narayan Singh University, Bihar, Jamuhar, 821305, India; Bawa, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Neural Computing and Applications	2023	9410643
7179	Development and Uncertainty Assessment of Low-Cost Portable EMG Acquisition Module	Gupta R., Dhindsa I.S., Agarwal R.	Gupta, R., Department of Biomedical Engineering, SRM Institute of Science and Technology, Tamil Nadu, Kattankulathur, India; Dhindsa, I.S., Electronics and Communication Engineering Department, Government Polytechnic, Ambala City, India; Agarwal, R., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mapan - Journal of Metrology Society of India	2023	9703950
7180	Investigation of mechanical properties and microstructure characterisation of MMA-MIG-TIG-SAW welded EN8 steel joints via shot blasting method	Babbar A., Garg S., Jain V., Kumar Singla V.	Babbar, A., Department of Mechanical Engineering, SGT University, Haryana, Gurugram, 122505, India; Garg, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar Singla, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Adhesion Science and Technology	2023	1694243
7181	An intelligent machine learning-enabled cattle reclining risk mitigation technique using surveillance videos	Saini M., Singh H., Sengupta E., Aggarwal A., Singh H., Kumar N.	Saini, M., Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Singh, H., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sengupta, E., Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Aggarwal, A., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singh, H., Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Neural Computing and Applications	2023	9410643

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7182	Enhancing the mechanical performance of E-glass fiber epoxy composites using coal-derived graphene oxide	Garg A., Basu S., Mehta R., Mahajan R.L.	Garg, A., TIET-VT Center of Excellence in Emerging Materials, School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Basu, S., TIET-VT Center of Excellence in Emerging Materials, School of Chemistry & Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., TIET-VT Center of Excellence in Emerging Materials, Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mahajan, R.L., Department of Mechanical Engineering, Virginia Tech, Blacksburg, VA, United States, Department of Materials Science & Engineering, Virginia Tech, Blacksburg, VA, United States, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, India	Polymer Composites	2023	2728397
7183	A novel multi-task learning technique for offline handwritten short answer spotting and recognition	Das A., Suwanwiwat H., Pal U.	Das, A., Department of Computer Sc., and Engg., Thapar University, Punjab, Patiala, India, Department of Computer Sc., and Information Sc., BITS Pilani Hyderabad Campus, Hyderabad, Telengana, India; Suwanwiwat, H., Information Technology Academy, James Cook University, Cairns, QLD, Australia; Pal, U., Computer Vision & Pattern Recognition Unit, Indian Statistical Institute, Kolkata, India	Multimedia Tools and Applications	2023	13807501
7184	Design and Analysis of Active Feedback RGC-based Transimpedance Receiver Circuit for Optical Interconnects	Singh A., Sandha K.S., Rai M.K.	Singh, A., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, 147001, India; Sandha, K.S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, 147001, India; Rai, M.K., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Bhadson Road, Patiala, 147001, India	Journal of Circuits, Systems and Computers	2023	2181266
7185	Developing the framework of blockchain-enabled agri-food supply chain	Sharma A., Bhatia T., Singh R.K., Sharma A.	Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India; Bhatia, T., Thapar Institute of Engineering and Technology, Patiala, India; Singh, R.K., International Management Institute – Kolkata, Kolkata, India; Sharma, A., Thapar Institute of Engineering and Technology, Patiala, India	Business Process Management Journal	2023	14637154
7186	Intelligent Emergency Evacuation System for Industrial Environments Using IoT-Enabled WSNs	Agarwal V., Tapaswi S., Chanak P., Kumar N.	Agarwal, V., National Institute of Technology, Department of Computer Engineering, Kurukshetra, 136119, India; Tapaswi, S., Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Department of Computer Science and Engineering, Gwalior, 474015, India; Chanak, P., IIT (BHU) Varanasi, Department of Computer Science and Engineering, Varanasi, 221005, India; Kumar, N., Thapar Institute of Engineering and Technology (Deemed to Be University), Department of Computer Science and Engineering, Patiala, 147004, India	IEEE Transactions on Instrumentation and Measurement	2023	189456
7187	Deep Learning in Personalized Healthcare and Decision Support	Garg H., Chatterjee J.M.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Chatterjee, J.M., Department of Information Technology, Lord Buddha Education Foundation (Asia Pacific University), Kathmandu, Nepal	Deep Learning in Personalized Healthcare and Decision Support	2023	
7188	Evaluation of Magnetic Hyperthermia Efficiency of PEG-Coated Fe ₃ O ₄ Nanoparticles	Srivastava N., Baranwal M., Chudasama B.	Srivastava, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-VT Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Nano	2023	17932920
7189	Use of Proximity-Based Shaft Displacement Sensors for Rolling Element Bearing Fault Diagnosis	Singh J., Darpe A., Singh S.P.	Singh, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Darpe, A., Department of Mechanical Engineering, Indian Institute of Technology, New Delhi, Delhi, India; Singh, S.P., Department of Mechanical Engineering, Indian Institute of Technology, New Delhi, Delhi, India	Journal of Vibration Engineering and Technologies	2023	25233920
7190	A 3- Φ switched-capacitor-based multilevel inverter with reduced voltage stress and part count	Jena K., Gupta K.K., Kumar D., Dewangan N.K., Kabat S.R.	Jena, K., ARKA JAIN University, Jharakhand, Mohanpur, India; Gupta, K.K., Thapar University, Patiala, India; Kumar, D., Government Engineering College Siwan, Bihar, Siwan, India; Dewangan, N.K., Department of Mechatronics, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India; Kabat, S.R., Radhakrishna Institute of Technology and Engineering, Bhubaneswar, Bhubaneswar, India	Electrical Engineering	2023	9487921
7191	Ensembled Deep Convolutional Generative Adversarial Network for Grading Imbalanced Diabetic Retinopathy Recognition	Naz H., Nijhawan R., Ahuja N.J., Al-Otaibi S., Saba T., Bahaj S.A., Rehman A.	Naz, H., University of Petroleum and Energy Studies, Department of Computer Science, Dehradun, 248007, India, Prince Sultan University, Artificial Intelligence and Data Analytics Laboratory, Riyadh, 11586, Saudi Arabia; Nijhawan, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ahuja, N.J., University of Petroleum and Energy Studies, Department of Computer Science, Dehradun, 248007, India; Al-Otaibi, S., Princess Nourah Bint Abdulrahman University, College of Computer and Information Sciences, Department of Information Systems, Riyadh, 11671, Saudi Arabia; Saba, T., Prince Sultan University, Artificial Intelligence and Data Analytics Laboratory, Riyadh, 11586, Saudi Arabia; Bahaj, S.A., Prince Sattam Bin Abdulaziz University, College of Business Administration, Mis Department, Al-Kharj, 11942, Saudi Arabia, Hadhramaut University, College of Engineering and Petroleum, Department of Computer Engineering, Mukalla, Hadhramout, Yemen; Rehman, A., Prince Sultan University, Artificial Intelligence and Data Analytics Laboratory, Riyadh, 11586, Saudi Arabia	IEEE Access	2023	21693536
7192	Bio-Prospecting Fungi for Hydrocarbons with a Potential for Biofuels Production	Saxena S.	Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, India, Agpharm Bioinnovations LLP, Incubatee: Science and Technology Entrepreneurs Park (STEP), Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Applied Mycology for Agriculture and Foods: Industrial Applications	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7193	GST polymorphism as a predictive biomarker for modulating the susceptibility to chronic obstructive pulmonary disease: A North Indian study	Yadav H., Pandit D., Singh S., Sharma P., Garg K., Girdhar N., Sharma K., Chopra V., Chopra S., Sharma S.	Yadav, H., Department of Pulmonary Medicine Government Medical College, TB & Chest Diseases Hospital, Punjab, Patiala, India; Pandit, D., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, K., Department of Pulmonary Medicine Government Medical College, TB & Chest Diseases Hospital, Punjab, Patiala, India; Girdhar, N., Department of Pulmonary Medicine Government Medical College, TB & Chest Diseases Hospital, Punjab, Patiala, India; Sharma, K., Department of Pulmonary Medicine Government Medical College, TB & Chest Diseases Hospital, Punjab, Patiala, India; Chopra, V., Department of Pulmonary Medicine Government Medical College, TB & Chest Diseases Hospital, Punjab, Patiala, India; Chopra, S., Department of Internal Medicine, St. Joseph Mercy Oakland Hospital, Pontiac, MI, United States; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Experimental Physiology	2023	9580670
7194	A Blockchain Based Matching Game for Content Sharing in Content-Centric Vehicle-to-Grid Network Scenarios	Miglani A., Kumar N.	Miglani, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Kumar, N., Department of Computer Science and Engineering, School of Computer Science, Thapar Institute of Engineering and Technology (TIET), Patiala, India	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
7195	PREDICTING CARDIAC HEALTH USING SUB-COMPONENT OF A PHONOCARDIOGRAM	Arora S., Jain S., Chana I.	Arora, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Jain, S., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Chana, I., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Mechanics in Medicine and Biology	2023	2195194
7196	Role of Fungi in Converting Agro-Residues into Cellulase and Bioethanol	Sodhi G.K., Saxena S.	Sodhi, G.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saxena, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Applied Mycology for Agriculture and Foods: Industrial Applications	2023	
7197	Cloud-fog assisted human tracing and disaster evacuation framework	Kaur M., Kaur P.D., Sood S.K.	Kaur, M., Department of Computer Science & Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kaur, P.D., Department of Engineering & Technology, Guru Nanak Dev University, Regional Campus, Punjab, Jalandhar, India; Sood, S.K., Department of Computer Applications, National Institute of Technology, Haryana, Kurukshetra, India	Transactions on Emerging Telecommunications Technologies	2023	21613915
7198	Advancements in medical diagnosis and treatment through machine learning: A review	Ahsan M., Khan A., Khan K.R., Sinha B.B., Sharma A.	Ahsan, M., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Khan, A., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Khan, K.R., School of Computer Science, University of Petroleum and Energy Studies, Dehradun, India; Sinha, B.B., Computer Science and Engineering, Indian Institute of Information Technology, Ranchi, India; Sharma, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Expert Systems	2023	2664720
7199	A Centralized Stage-Wise Control Approach for Frequency and Voltage Regulation in PV-Wind-Storage Based Islanded Microgrid	Mehta S., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electric Power Components and Systems	2023	15325008
7200	In-plane shear behaviour of concrete sandwich panels reinforced with various geogrids	Bishnoi U., Roy A.B.D., Kwatra N.	Bishnoi, U., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Roy, A.B.D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	European Journal of Environmental and Civil Engineering	2023	19648189
7201	Innovating With the Customer: Co-Creation Motives in Online Communities	Nohutlu Z.D., Englis B.G., Groen A.J., Constantinides E.	Nohutlu, Z.D., Faculty of Behavioral, Management and Social Sciences, Department of High-Tech Business and Entrepreneurship, University of Twente, Netherlands; Englis, B.G., Management and Marketing Department, Campbell School of Business, Berry College, United States; Groen, A.J., University of Groningen, Netherlands; Constantinides, E., digital marketing at the Thapar Institute of Engineering and Technology, India	International Journal of Electronic Commerce	2023	10864415
7202	Fuzzy Multivalued Mappings And Stability Of Fixed Point Sets	Bhandari S.K., Chandok S.	Bhandari, S.K., Department of Mathematics, Bajkul Milani Mahavidyalaya, Kismat Bajkul, West Bengal, Purba Medinipur, 721655, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Applied Mathematics E - Notes	2023	16072510
7203	IoT-Based Real-Time Crop and Fertilizer Prediction for Precision Farming 4.0	Tiwari S., Garg R., Kushal N., Khurana M.	Tiwari, S., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Garg, R., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Kushal, N., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Khurana, M., CSED, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7204	Multimodal Classification via Visual and Lingual Feature Layer Fusion	Saklani A., Pannu H.S., Tiwari S.	Saklani, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Tiwari, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7205	Performance Analysis of a Designed Aerostatic Bearing with Effect of Surface Roughness	Jamwal K.S., Singh A.K., Arora K., Paswan S.K.	Jamwal, K.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, A.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arora, K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Paswan, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	2023	22286187
7206	Mechanical and microstructural characteristics of structural concrete containing RCA treated with sodium metasilicate	Bansal S., Choudhary L., Kalra M., Dave N., Sharma A.K.	Bansal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Choudhary, L., Department of Multidisciplinary Engineering, The NorthCap University, Gurugram, India; Kalra, M., Department of Civil Engineering, Jamia Millia Islamia, New Delhi, India; Dave, N., Department of Civil Engineering, Pandit Deendayal Energy University, Gandhinagar, India; Sharma, A.K., Department of Civil Engineering, National Institute of Technology, Patna, India	Journal of Engineering, Design and Technology	2023	17260531
7207	An optimal system for increasing the contrast resolution qualities of histopathology images in the wavelet domain	Rao K., Bansal M., Kaur G.	Rao, K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kaur, G., Department of Electronics and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India	International Journal of Imaging Systems and Technology	2023	8999457
7208	F2UIE: feature transfer-based underwater image enhancement using multi-stackcnn	Verma G., Kumar M., Raikwar S.	Verma, G., Department of Computer Engineering and Applications, GLA University, U.P., Mathura, 281406, India; Kumar, M., Department of Computer Engineering and Applications, GLA University, U.P., Mathura, 281406, India; Raikwar, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
7209	Optimization of polydopamine coating process for poly lactic acid-based 3D printed bone plates using machine learning approaches	Sharma S., Gupta V., Mudgal D., Srivastava V.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Mudgal, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Srivastava, V., Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, India	Polymer Engineering and Science	2023	323888
7210	β - σ -GERAGHTY TYPE CONTRACTION MAPPING AND FIXED POINT RESULTS IN GENERALIZED Gb-METRIC SPACE	Rani B., Kaur J., Bhatia S.S.	Rani, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kaur, J., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhatia, S.S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Advances in Fixed Point Theory	2023	19276303
7211	A review of regularization strategies and solution techniques for ill-posed inverse problems, with application to inverse heat transfer problems	Singhal M., Goyal K., Singla R.K.	Singhal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Goyal, K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Reviews in Mathematical Physics	2023	0129055X
7212	Performance analysis of SRFT based D-STATCOM for power quality improvement in distribution system under different loading conditions	Sirohi V., Saggu T.S., Singh M.	Sirohi, V., Punjab Engineering College, Chandigarh, India; Saggu, T.S., Punjab Engineering College, Chandigarh, India; Singh, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Emerging Electric Power Systems	2023	21945756
7213	HaVQA: A Dataset for Visual Question Answering and Multimodal Research in Hausa Language	Parida S., Abdulmumin I., Muhammad S.H., Bose A., Kohli G.S., Ahmad I.S., Kotwal K., Sarkar S.D., Bojar O., Kakudi H.A.	Parida, S., Silo AI, Finland; Abdulmumin, I., Ahmadu Bello University, Zaria, Nigeria, HausaNLP; Muhammad, S.H., Bayero University, Kano, Nigeria, HausaNLP; Bose, A., Microsoft, India, COR.D.ai, India; Kohli, G.S., Thapar University, India, COR.D.ai, India; Ahmad, I.S., Bayero University, Kano, Nigeria, HausaNLP; Kotwal, K., Idiap Research Institute, Switzerland; Sarkar, S.D., ETH Zurich, Switzerland, COR.D.ai, India; Bojar, O., Charles University, MFF ÚFAL, Czech Republic; Kakudi, H.A., Bayero University, Kano, Nigeria	Proceedings of the Annual Meeting of the Association for Computational Linguistics	2023	0736587X
7214	MLModeler5 at SemEval-2023 Task 3: Detecting the Category and the Framing Techniques in Online News in a Multi-lingual Setup	Khanchandani A., Jain N., Bedi J.	Khanchandani, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Jain, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Bedi, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India	17th International Workshop on Semantic Evaluation, SemEval 2023 - Proceedings of the Workshop	2023	
7215	Computational identification and exploration of novel FGFR tyrosine kinase inhibitors for the treatment of cholangiocarcinoma	Kaur A., Mandal D.	Kaur, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Biomolecular Structure and Dynamics	2023	7391102

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7216	Annotate and retrieve in vivo images using hybrid self-organizing map	Kaur P., Malhi A., Pannu H.	Kaur, P., CSED, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science, Durham University, Durham, United Kingdom; Malhi, A., Department of Computer Science, Durham University, Durham, United Kingdom, Department of Computing and Informatics, Bournemouth University, Poole, United Kingdom; Pannu, H., CSED, Thapar Institute of Engineering and Technology, Patiala, India, Department of Computer Science, Durham University, Durham, United Kingdom	Visual Computer	2023	1782789
7217	Stator feed-forward voltage estimation for position sensorless PMSM drive using MRAS technique	Pindoriya R.M., Tejan K.V., Rajpurohit B.S.	Pindoriya, R.M., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tejan, K.V., Indian Institute of Technology Mandi, Himachal Pradesh, Mandi, 175005, India; Rajpurohit, B.S., Indian Institute of Technology Mandi, Himachal Pradesh, Mandi, 175005, India	International Journal of Power Electronics	2023	1756638X
7218	Causality between equity mutual fund flows, stock market return and volatility: Indian evidence	Kaur I., Vagrecha K.	Kaur, I., Thapar Institute of Engineering and Technology, Patiala, India; Vagrecha, K., Indira Gandhi National Open University, Delhi, India	International Journal of Business and Globalisation	2023	17533627
7219	A deep learning based ensemble approach for protein allergen classification	Kumar A., Rana P.S.	Kumar, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	PeerJ Computer Science	2023	23765992
7220	Diagnosis of Parkinson's disease genes using LSTM and MLP-based multi-feature extraction methods	Arora P., Mishra A., Malhi A.	Arora, P., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Mishra, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Malhi, A., Data Science and AI, Bournemouth University, United Kingdom	International Journal of Data Mining and Bioinformatics	2023	17485673
7221	An empirical investigation of productivity dynamics and determinants of total factor productivity in selected manufacturing sectors: a panel data analysis	Kaur P.P., Kiran R.	Kaur, P.P., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Custos e Agronegocio	2023	18082882
7222	Command shaped trajectory tracking control for a two-link flexible manipulator	Kumar S., Saha S.K., Singla A., Singh S.P., Bera T.K.	Kumar, S., Department of Mechanical Engineering, Indian Institute of Technology Delhi, Hauz-Khas, New Delhi, 110016, India; Saha, S.K., Department of Mechanical Engineering, Indian Institute of Technology Delhi, Hauz-Khas, New Delhi, 110016, India; Singla, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Singh, S.P., Department of Mechanical Engineering, Indian Institute of Technology Delhi, Hauz-Khas, New Delhi, 110016, India; Bera, T.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Multibody System Dynamics	2023	13845640
7223	AI based wearables for healthcare applications: A survey of smart watches	Kapoor D.S., Sharma A., Jot Singh K., Thakur K., Kohli A.K.	Kapoor, D.S., Kalpana Chawla Center for Research in Space Science and Technology, Chandigarh University, Punjab, Mohali, India; Sharma, A., Chandigarh University, Punjab, Mohali, India; Jot Singh, K., Kalpana Chawla Center for Research in Space Science and Technology, Chandigarh University, Punjab, Mohali, India; Thakur, K., Kalpana Chawla Center for Research in Space Science and Technology, Chandigarh University, Punjab, Mohali, India; Kohli, A.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Intelligent Systems and Applications in Computer Vision	2023	
7224	Fusion barrier distribution from measurement of quasielastic scattering at $\theta_{c.m.} = 180^\circ$	Biswas R., Nath S., Gehlot J., Gonika, Kumar C., Parihari A., Madhavan N., Vinayak A., Mahato A., Noor S., Sherpa P.	Biswas, R., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Nath, S., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gehlot, J., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gonika, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kumar, C., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Parihari, A., Department of Physics and Astrophysics, Delhi University, Delhi, 110007, India; Madhavan, N., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Vinayak, A., Department of Physics, Karnatak University, Dharwad, 580003, India; Mahato, A., Department of Physics, Central University of Jharkhand, Ranchi, 835205, India; Noor, S., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sherpa, P., Department of Physics and Astrophysics, Delhi University, Delhi, 110007, India	Journal of Physics: Conference Series	2023	17426588
7225	Effect of low lying vibrational and rotational energy levels on the fusion cross-sections	Jain N., Bhuyan M., Kumar R.	Jain, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhuyan, M., Center for Theoretical and Computational Physics (CTCP), Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, 50603, Malaysia; Kumar, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physics: Conference Series	2023	17426588

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7226	Influence of neutron transfer channels on fusion dynamics near the Coulomb barrier for $28\text{Si} + 116,120,124\text{Sn}$ systems	Rani A., Mandal S., Chakraborty K., Gupta R., Ahmad C.V., Parihari A., Vishwakama D., Khandelwal P., Rawat P.S., Sherpa P., Kumar S., Madhavan N., Nath S., Gehlot J., Biswas R., Gonika, Kumar C., Noor S., Vinayak A.	Rani, A., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Mandal, S., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Chakraborty, K., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Gupta, R., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Ahmad, C.V., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Parihari, A., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Vishwakama, D., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Khandelwal, P., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Rawat, P.S., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Sherpa, P., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Kumar, S., Department of Physics & Astrophysics, University of Delhi, New Delhi, 110007, India; Madhavan, N., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Nath, S., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gehlot, J., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Biswas, R., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Gonika, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Kumar, C., Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Noor, S., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Vinayak, A., Department of Physics, Karnatak University, Karnataka, Dharwad, 580003, India	Journal of Physics: Conference Series	2023	17426588
7227	The effect of the cyclic hornification on the hygromechanical and surface characteristics of rice stubble agriculture waste	Somal S.S., Jain D., Bhowmick H.	Somal, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Jain, D., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Bhowmick, H., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2023	14644207
7228	Three Dimensional Hand Movement Tracking with Machine Learning and Stereo Camera	Verma K., Pandey S.	Verma, K., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Pandey, S., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Patiala, India	2023 International Conference on Computer, Electronics and Electrical Engineering and their Applications, IC2E3 2023	2023	
7229	Design of Multi-Bit Full Adder Using Low Power m-GDI Technique	Sharma P., Sutradhar J., Akashe S., Sharma S.	Sharma, P., Thapar University, Department of Ece, Patiala, India; Sutradhar, J., Iitm University, Department of Ece, Gwalior, India; Akashe, S., Iitm University, Department of Ece, Gwalior, India; Sharma, S., Thapar University, Department of Ece, Patiala, India	Proceedings - 2023 IEEE World Conference on Applied Intelligence and Computing, AIC 2023	2023	
7230	Mathematical analysis and dynamical transmission of monkeypox virus model with fractional operator	Farman M., Akgül A., Garg H., Baleanu D., Hincal E., Shahzeen S.	Farman, M., Institute of Mathematics, Khawaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, Pakistan, Department of Computer Science and Mathematics, Lebanese American University, Beirut, Lebanon, Mathematics Research Center, Department of Mathematics, Near East University, Nicosia /Mersin, Turkey; Akgül, A., Department of Computer Science and Mathematics, Lebanese American University, Beirut, Lebanon, Mathematics Research Center, Department of Mathematics, Near East University, Nicosia /Mersin, Turkey, Art and Science Faculty, Department of Mathematics, Siirt University, Siirt, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India; Baleanu, D., Department of Computer Science and Mathematics, Lebanese American University, Beirut, Lebanon, Department of Medical Research, China Medical University Hospital, China Medical University, Taichung, Taiwan, Institute of Space Sciences, Magurele-Bucharest, Romania; Hincal, E., Mathematics Research Center, Department of Mathematics, Near East University, Nicosia /Mersin, Turkey; Shahzeen, S., Department of Mathematics and Statistics, The University of Lahore, Pakistan	Expert Systems	2023	2664720
7231	An Improved Biodegradable Microwave Absorber Based on Peanut Shell Mixed with Metal Free Carbon Nanotube for Ku-Band	Gupta H., Khanna R., Rai M.K., Narang S.B.	Gupta, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rai, M.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Narang, S.B., Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	Waste and Biomass Valorization	2023	18772641
7232	Empirical Analysis and Evaluation of Factors Influencing Adoption of AI-Based Automation Solutions for Sustainable Agriculture	Sood A., Bhardwaj A.K., Sharma R.K.	Sood, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhardwaj, A.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, R.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Communications in Computer and Information Science	2023	18650929
7233	Estimation of Leaf Parameters in Punjab Region Through Multi-spectral Drone Images Using Deep Learning Models	Arora D., Bhattacharya J., Panigrahy C.	Arora, D., Thapar Institute of Engineering and Technology, Punjab, India; Bhattacharya, J., Thapar Institute of Engineering and Technology, Punjab, India; Panigrahy, C., Thapar Institute of Engineering and Technology, Punjab, India	Communications in Computer and Information Science	2023	18650929

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7234	An efficient fuzzy hyper-edge clustering and popularity-based caching scheme for CCN-enabled IoT networks	Kumar S., Bathla G.	Kumar, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bathla, G., Department of Computer Engineering and Applications, GLA University, UP, Mathura, India	Multimedia Tools and Applications	2023	13807501
7235	Development of Efficient Prediction Model of FRP-to-Concrete Bond Strength Using Curve Fitting and ANFIS Methods	Kumar A., Arora H.C., Kumar K., Garg H., Jahangir H.	Kumar, A., AcSIR—Academy of Scientific and Innovative Research, Ghaziabad, 201002, India, Structural Engineering Department, CSIR—Central Building Research Institute, Roorkee, 247667, India; Arora, H.C., AcSIR—Academy of Scientific and Innovative Research, Ghaziabad, 201002, India, Structural Engineering Department, CSIR—Central Building Research Institute, Roorkee, 247667, India; Kumar, K., Department of Hydro and Renewable Energy, Indian Institute of Technology, Roorkee, 247667, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Jahangir, H., Department of Civil Engineering, University of Birjand, Birjand, Iran	Arabian Journal for Science and Engineering	2023	2193567X
7236	Modeling and Prediction of COVID-19 Trajectory using Ensemble Learning	Parmar S., Rani R., Kalra N.	Parmar, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023	2023	
7237	Analysis and Prediction of COVID-19 Disease using Machine Learning	Parmar S., Rani R., Kalra N.	Parmar, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023	2023	
7238	OmicPredict: a framework for omics data prediction using ANOVA-Firefly algorithm for feature selection	Kaur P., Singh A., Chana I.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Chana, I., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Computer Methods in Biomechanics and Biomedical Engineering	2023	10255842
7239	Rescue Bot	Aadya, Goyal A., Sachdeva H., Srivastava V., Shukla P., Vohra H., Kaur G.	Aadya, Thapar Institute of Engineering & Technology, Patiala, India; Goyal, A., Thapar Institute of Engineering & Technology, Patiala, India; Sachdeva, H., Thapar Institute of Engineering & Technology, Patiala, India; Srivastava, V., Thapar Institute of Engineering & Technology, Patiala, India; Shukla, P., Thapar Institute of Engineering & Technology, Patiala, India; Vohra, H., Thapar Institute of Engineering & Technology, Patiala, India; Kaur, G., Thapar Institute of Engineering & Technology, Patiala, India	14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023	2023	
7240	Deep learning techniques in CT image reconstruction and segmentation: a systematic literature review	Devi M., Singh S., Tiwari S.	Devi, M., Deenbandhu ChhotuRam University of Science and Technology, Haryana, Murthal, 131039, India; Singh, S., Deenbandhu ChhotuRam University of Science and Technology, Haryana, Murthal, 131039, India; Tiwari, S., Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India	International Journal of Nanotechnology	2023	14757435
7241	Performance evaluation of an automobile radiator using CuO/glycerol based nanocoolant	Jain P., Kundan L., Singla R.K.	Jain, P., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kundan, L., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singla, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Heat and Mass Transfer/Waerme- und Stoffuebertragung	2023	9477411
7242	Impact of board gender diversity on priority sector lending and insolvency risk: evidence from the Indian banking industry	Bhatia M., Bhullar P.S., Roy D., Gupta P.K.	Bhatia, M., University Business School, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Bhullar, P.S., University Business School, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Roy, D., NICMAR Business School, NICMAR University, 25/1, Balewadi, Pune, 411045, India; Gupta, P.K., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Electronic Finance	2023	17460069
7243	Modified approaches to solve matrix games with payoffs of single-valued trapezoidal neutrosophic numbers	Kirti, Verma T., Kumar A.	Kirti, School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Verma, T., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Soft Computing	2023	14327643
7244	An Annotated Dataset for Explainable Interpersonal Risk Factors of Mental Disturbance in Social Media Posts	Garg M., Shahbandegan A., Chadha A., Mago V.	Garg, M., Mayo Clinic, Rochester, MN 55901, United States; Shahbandegan, A., Lakehead University, Thunder Bay, ON P7B 5E1, Canada; Chadha, A., Thapar Institute of Engineering & Technology, PB, Patiala, 147005, India; Mago, V., Lakehead University, Thunder Bay, ON P7B 5E1, Canada	Proceedings of the Annual Meeting of the Association for Computational Linguistics	2023	0736587X
7245	Multi-objective generation scheduling of integrated energy system using hybrid optimization technique	Kaur A., Narang N.	Kaur, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Narang, N., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Neural Computing and Applications	2023	9410643
7246	SecECG: secure data hiding approach for ECG signals in smart healthcare applications	Rani J., Anand A., Shivani S.	Rani, J., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Anand, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shivani, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7247	Analysis of optimal iterative methods from a dynamical point of view by studying their stability properties	Kansal M., Sharma H.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, H., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Mathematical Chemistry	2023	2599791
7248	An investigation of an inverse problem for second-order abstract differential equation	Malik M., Ruhil S., Dhayal R.	Malik, M., School of Basic Sciences, Indian Institute of Technology Mandi, Mandi, 175005, India; Ruhil, S., School of Basic Sciences, Indian Institute of Technology Mandi, Mandi, 175005, India; Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Indian Journal of Pure and Applied Mathematics	2023	195588
7249	Non-edible fruit seeds: nutritional profile, clinical aspects, and enrichment in functional foods and feeds	Kumar H., Dhalaria R., Guleria S., Sharma R., Kumar D., Verma R., Cruz-Martins N., Dhanjal D.S., Chopra C., Kaur T., Kumar V., Siddiqui S.A., Manickam S., Cimler R., Kuca K.	Kumar, H., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech Republic; Dhalaria, R., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, India; Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, India; Sharma, R., School of Bioengineering & Food Technology, Shoolini University of Biotechnology and Management Sciences, Solan, India; Kumar, D., School of Bioengineering & Food Technology, Shoolini University of Biotechnology and Management Sciences, Solan, India; Verma, R., School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, India; Cruz-Martins, N., Faculty of Medicine, University of Porto, Porto, Portugal, Institute for Research and Innovation in Health (i3S), University of Porto, Porto, Portugal, Institute of Research and Advanced Training in Health Sciences and Technologies (CESPU), Rua Central de Gandra, Gandra PRD, Portugal, TOXRUN-Toxicology Research Unit, University Institute of Health Sciences, CESPU, Gandra, CRL, Portugal; Dhanjal, D.S., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, India; Chopra, C., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, Phagwara, India; Kaur, T., Department of Microbiology, DAV University, Sarmastpur, Jalandhar, India; Kumar, V., Central Ayurveda Research Institute, Jhansi, India; Siddiqui, S.A., Campus Straubing for Biotechnology and Sustainability, Technical University of Munich, Straubing, Germany; Manickam, S., Petroleum and Chemical Engineering, Faculty of Engineering, Universiti Teknologi Brunei, Bandar Seri Begawan, Brunei Darussalam; Cimler, R., Centre of Advanced Technologies, Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech Republic; Kuca, K., Andalusian Research Institute in Data Science and Computational Intelligence (DaSCI), University of Granada, Granada, Spain, Department of Chemistry, Faculty of Science, University of Hradec Kralove, Hradec Kralove, Czech Republic	Critical Reviews in Food Science and Nutrition	2023	10408398
7250	SETL: a transfer learning based dynamic ensemble classifier for concept drift detection in streaming data	Arora S., Rani R., Saxena N.	Arora, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saxena, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Cluster Computing	2023	13867857
7251	Genotyping, in silico screening and molecular dynamics simulation of SNPs of MGMT and ERCC1 gene in lung cancer patients treated with platinum-based doublet chemotherapy	Singh S., Gupta A., Singh N., Sengupta P.S., Panda S.K., Sharma S.	Singh, S., Department of Biosciences and Bioengineering, DY Patil International University, Maharashtra, Akurdi, India; Gupta, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, India; Sengupta, P.S., Department of Biosciences and Bioengineering, DY Patil International University, Maharashtra, Akurdi, India; Panda, S.K., Department of Chemical Sciences, Indian Institute of Science Education and Research (IISER) Berhampur, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7252	On Direct Metal Laser Sintering of Functionally Graded Material with Virgin and Mixed Powder	Kalia B., Singh R., Pabla B.S., Dureja M.	Kalia, B., Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India; Singh, R., Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India; Pabla, B.S., Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India; Dureja, M., Mechanical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh, India, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Arabian Journal for Science and Engineering	2023	2193567X
7253	An Overview of Recent Approaches in Brain-Computer Interface Systems Using Electroencephalography	Maheswari S., Rajesh K.N.V.P.S., Desai U., Kumar T.S.	Maheswari, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajesh, K.N.V.P.S., School of Electronics Engineering, VIT-AP University, Andhra Pradesh, Vijayawada, India; Desai, U., Department of Electronics and Communication Engineering, SR University, Telangana, Warangal, India; Kumar, T.S., School of Computer Science Engineering, Vellore Institute of Technology, Tamil Nadu, Chennai, India	Human-Machine Interface Technology Advancements and Applications	2023	
7254	A faster SVM classification technique for remote sensing images using reduced training samples	Chowdhury K., Chaudhuri D., Pal A.K.	Chowdhury, K., Computer Science and Engineering Department (CSED), Thapar Institute of Engineering and Technology (TIET), Bhadson Road, Punjab, Patiala, 147004, India; Chaudhuri, D., Department of Computer Science and Engineering, Techno India University, EM-4, Sector-V, Salt Lake, West Bengal, Kolkata, 700091, India; Pal, A.K., Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) [IIT(ISM)], Jharkhand, Dhanbad, 826004, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7255	Single Image Dehazing Using Hybrid Convolution Neural Network	Juneja A., Kumar V., Singla S.K.	Juneja, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Information Technology, Dr. B. R. Ambedkar, National Institute of Technology, Jalandhar, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
7256	An experimental investigation into sifting and fluidization segregation characteristics for coal fly ash	Poddar R., Mallick S.S., Kundan L.	Poddar, R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Mallick, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Kundan, L., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Particulate Science and Technology	2023	2726351
7257	Investigations on the role of Inconel 82 additions on improving fatigue and corrosion behaviour of gas tungsten arc AISI 316L stainless steel claddings	Kaur H., Malhotra D., Kumar S., Singh H.	Kaur, H., Mechanical Engineering Department, Thapar Institute of Engineering & Technology (TIET), Patiala, India; Malhotra, D., Department of Mechanical Engineering, Indian Institute of Technology Jammu, Jagti, India; Kumar, S., Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, India; Singh, H., Mechanical Engineering Department, Indian Institute of Technology, Ropar, India	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	2023	14644207
7258	VMD-based ECG signal watermarking using image fusion: a robust and versatile approach for secure telemedical services	Rani J., Anand A., Shivani S.	Rani, J., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Anand, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shivani, S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
7259	An adaptive Steffensen-like families for solving nonlinear systems using frozen divided differences	Kansal M., Rani L.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rani, L., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Mathematical Chemistry	2023	2599791
7260	Modelling and control of electric vehicle motors and drives in a unified framework	Chaudhary R., Ganguli S., Sarkar P.	Chaudhary, R., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, 147004, India; Ganguli, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, 147004, India; Sarkar, P., National Institute of Technical Teachers' Training and Research, Department of Electrical Engineering, Kolkata, 700106, India	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023	2023	
7261	Optimal PID Controller Design for Electric Vehicle System	Singh R., Singh V.P., Meena V.P., Waghmare A.V., Agarwal R., Prakash S.	Singh, R., Thapar Institute of Engineering & Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Singh, V.P., Malaviya National Institute of Technology, Department of Electrical Engineering, Rajasthan, Jaipur, 302017, India; Meena, V.P., Malaviya National Institute of Technology, Department of Electrical Engineering, Rajasthan, Jaipur, 302017, India; Waghmare, A.V., Malaviya National Institute of Technology, Department of Electrical Engineering, Rajasthan, Jaipur, 302017, India; Agarwal, R., Thapar Institute of Engineering & Technology, Electrical and Instrumentation Engineering Department, Patiala, India; Prakash, S., Thapar Institute of Engineering & Technology, Electrical and Instrumentation Engineering Department, Patiala, India	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023	2023	
7262	State-of-the-Art of Green Hydrogen Fuel Cell Electric Vehicles and Battery Management Systems	Golechha H., Kumar A., Pindoriya R.M.	Golechha, H., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Pindoriya, R.M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023	2023	
7263	An Analytical Review on State-of-the-Art of Green Hydrogen Technology for Fuel Cell Electric Vehicles Applications	Pindoriya R.M., Ahuja V., Sharma A., Singh A., Jain S.	Pindoriya, R.M., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ahuja, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023	2023	
7264	A unified approach to modelling of time-varying delay system for electric vehicles	Ganguli S., Sarkar P.	Ganguli, S., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Patiala, 147004, India; Sarkar, P., National Institute of Technical Teachers' Training and Research, Department of Electrical Engineering, Kolkata, 700106, India	2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation, SeFet 2023	2023	
7265	Phase Corrected Substrate Integrated Waveguide H-Plane Horn Antenna with Dielectric Loading	Kumari K., Khanna R., Singh H.S., Agarwal M.	Kumari, K., TIET-TAU Centre of Excellence for Food Security (T2CEFS), Tiet, Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147 004, India; Khanna, R., TIET-TAU Centre of Excellence for Food Security (T2CEFS), Tiet, Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147 004, India; Singh, H.S., TIET-TAU Centre of Excellence for Food Security (T2CEFS), Tiet, Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147 004, India; Agarwal, M., TIET-TAU Centre of Excellence for Food Security (T2CEFS), Tiet, Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147 004, India	2nd International Conference on Wireless, Antenna and Microwave Symposium, WAMS 2023	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7266	A Survey on 3D Hand Detection and Tracking Algorithms for Human Computer Interfacing	Bajaj A., Rajpal J., Abraham A.	Bajaj, A., Thapar Institute of Engineering and Technology, Patiala, India, Machine Intelligence Research Labs (MIR Labs), Auburn, United States; Rajpal, J., Guru Jambheshwar University of Science and Technology, Haryana, Hisar, India; Abraham, A., Machine Intelligence Research Labs (MIR Labs), Auburn, United States, Center for Artificial Intelligence, Innopolis University, Innopolis, Russian Federation	Lecture Notes in Networks and Systems	2023	23673370
7267	Experimental Investigation of CT Scan Imaging Based COVID-19 Detection with Deep Learning Techniques	Shinde A., Bajaj A., Abraham A.	Shinde, A., IIIT, Pune, India; Bajaj, A., Thapar Institute of Engineering and Technology, Patiala, India, Machine Intelligence Research Lab, Washington, United States; Abraham, A., Machine Intelligence Research Lab, Washington, United States	Lecture Notes in Networks and Systems	2023	23673370
7268	Multi-level Image Segmentation of Breast Tumors Using Kapur Entropy Based Nature-Inspired Algorithms	Biswas S., Bajaj A., Abraham A.	Biswas, S., Jadavpur University, Jadavpur, India; Bajaj, A., Thapar Institute of Engineering and Technology, Patiala, India, Machine Intelligence Research Labs, Auburn, United States; Abraham, A., Machine Intelligence Research Labs, Auburn, United States, Center for Artificial Intelligence, Innopolis University, Innopolis, Russian Federation	Lecture Notes in Networks and Systems	2023	23673370
7269	Impacts of gray market selling on the supply chain under product upgrade and pricing flexibility decisions	Srivastava A., Choi T.-M., Mahajan A., Roy V.	Srivastava, A., Operations Management and Decision Sciences, Indian Institute of Management Kashipur, Kashipur, India; Choi, T.-M., Centre for Supply Chain Research, University of Liverpool Management School, Liverpool, United Kingdom; Mahajan, A., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Derabassi, India; Roy, V., Operations Management and Decision Sciences, Indian Institute of Management Kashipur, Kashipur, India	Naval Research Logistics	2023	0894069X
7270	Efficient Auto-scaling for Host Load Prediction through VM migration in Cloud	Verma S., Bala A.	Verma, S., Computer Science & Engg. Department, Thapar Institute of Engg. & Technology Patiala, Punjab, India; Bala, A., Computer Science & Engg. Department, Thapar Institute of Engg. & Technology Patiala, Punjab, India	Concurrency and Computation: Practice and Experience	2023	15320626
7271	Modeling of Love wave propagation in the diversified piezomagnetic layered structure under impulsive force due to a point source	Bharti U., Vaishnav P.K.	Bharti, U., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Vaishnav, P.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Mechanics of Advanced Materials and Structures	2023	15376494
7272	Impact of Genomics in Improvement of Rice Bean Production and Productivity: An Orphan Crop	Singh B., Mohanty D., Upadhyay A.K.	Singh, B., School of Bioengineering and Biosciences, Lovely Professional University, Punjab, India; Mohanty, D., Department of Pharmaceuticals, Anurag University, Hyderabad, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Genomics of Plant-Pathogen Interaction and the Stress Response	2023	
7273	Effect of different combat boots on peak ground reaction forces during walking	Sandhu K., Chatterjee M.S., Srivastava V., Pal M.	Sandhu, K., Department of Product and Industrial Design, Lovely Professional University, Phagwara, 144411, India; Chatterjee, M.S., Ergonomics and Occupational Physiology Laboratory, Department of Physiology, University of Kalyani, Nadia, West Bengal, Kalyani, 741235, India; Srivastava, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Pal, M., Department of Ergonomics, Defence Institute of Physiology and Allied Sciences, DRDO, Delhi, 110054, India	International Journal of Human Factors and Ergonomics	2023	20457804
7274	Core-shell structure of reduced graphene oxide@Ag-TiO2 for photocatalytic H2O splitting and CH3OH dehydrogenation under UV light irradiation	Rani S., Singh S., Pal B.	Rani, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	International Journal of Hydrogen Energy	2023	3603199
7275	An automated diagnosis model for classifying cardiac abnormality utilizing deep neural networks	Singh G., Verma A., Gupta L., Mehta A., Arora V.	Singh, G., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Verma, A., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Gupta, L., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, A., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
7276	A dimensionality reduction-based approach for secured color image watermarking	Anand A.	Anand, A., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Soft Computing	2023	14327643
7277	Single-Stage Single-Phase 5-Level Switched-Capacitor Multilevel Inverter	Jena K., Gupta K.K., Kumar D., RanjanKabat S.	Jena, K., Department of Electrical Engineering, ARKA JAIN University, Jamshedpur, 831001, India; Gupta, K.K., Department of Electrical and Electronics Engineering, Thapar Institute of Engineering and Technology, Punjab147004, India; Kumar, D., Department of Electrical Engineering, Government Engineering College Siwan, Bihar, Siwan, 841226, India; RanjanKabat, S., Department of Electrical Engineering, Radhakrishna Institute of Engineering and Technology, Odisha, Khordha, 752057, India	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2023	22286179

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7278	Anomaly Detection with Memory-augmented Adversarial Autoencoder Networks for Industry 5.0	Zhang H., Kumar N., Wu S., Wu C., Wang J., Zhang P.	Zhang, H., College of Computer Science and Technology, Qingdao Institute of Software, China University of Petroleum (East China), Qingdao, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India; Wu, S., School of Information and Communication Engineering, Beijing University of Posts and Telecommunications, Beijing, China; Wu, C., College of Computer Science and Technology, Qingdao Institute of Software, China University of Petroleum (East China), Qingdao, China; Wang, J., College of Science, China University of Petroleum (East China), Qingdao, China; Zhang, P., College of Computer Science and Technology, Qingdao Institute of Software, China University of Petroleum (East China), Qingdao, China	IEEE Transactions on Consumer Electronics	2023	983063
7279	A Deep Learning Integrated Blockchain Framework for Securing Industrial IoT	Aljuhani A., Kumar P., Alanazi R., Albalawi T., Taouali O., Islam A.K.M.N., Kumar N., Alazab M.	Aljuhani, A., College of Computing and Information Technology, University of Tabuk, Tabuk, Saudi Arabia; Kumar, P., Department of Software Engineering, LUT School of Engineering Science, LUT University, Lappeenranta, Finland; Alanazi, R., College of Computing and Information Technology, University of Tabuk, Tabuk, Saudi Arabia; Albalawi, T., College of Computing and Information Technology, University of Tabuk, Tabuk, Saudi Arabia; Taouali, O., College of Computing and Information Technology, University of Tabuk, Tabuk, Saudi Arabia; Islam, A.K.M.N., Department of Software Engineering, LUT School of Engineering Science, LUT University, Lappeenranta, Finland; Kumar, N., Thapar University, CSED, Patiala, Punjab, India; Alazab, M., Faculty of Science and Technology, Charles Darwin University, Casuarina, NT, Australia	IEEE Internet of Things Journal	2023	23274662
7280	Quantum secret sharing protocol through noisy channel with application in visual cryptography	Rathi D., Kumar S., Musanna F., Singh D.	Rathi, D., Department of Mathematics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India; Kumar, S., Department of Mathematics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India, Mehta Family School of Data Science and Artificial Intelligence, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India; Musanna, F., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Singh, D., Department of Mathematics, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India	Concurrency and Computation: Practice and Experience	2023	15320626
7281	PEXCon: Design and Development of Passive Exoskeleton for Construction	Kansal S., Zhang J.	Kansal, S., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Patiala, India; Zhang, J., Automation and Intelligent Construction (AutoIC) Lab, School of Construction Management Technology, Purdue University, Indiana, United States	Proceedings of the International Symposium on Automation and Robotics in Construction	2023	24135844
7282	Pathfinding with Dynamic Obstacles	Patil A., Kamboj S., Bajaj A., Abraham A.	Patil, A., Thapar Institute of Engineering and Technology, Patiala, India; Kamboj, S., Thapar Institute of Engineering and Technology, Patiala, India; Bajaj, A., Thapar Institute of Engineering and Technology, Patiala, India; Abraham, A., Faculty of Computing and Data Sciences, Flame University, Pune, India	Lecture Notes in Networks and Systems	2023	23673370
7283	Effect of Nominal Maximum Aggregate Size and Bitumen Content on Frictional Properties of Different Bituminous Surface Courses	Choudhary R., Kumar R., Kumar A., Pathak S., Kumar A.	Choudhary, R., Department of Civil Engineering, Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India; Kumar, R., Department of Civil Engineering, Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India; Kumar, A., Department of Civil Engineering, Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India; Pathak, S., Department of Civil Engineering, Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India; Kumar, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Civil Engineering	2023	23662557
7284	Identification of conserved immunogenic peptides of SARS-CoV-2 nucleocapsid protein	Verma J., Kaushal N., Manish M., Subbarao N., Shakirova V., Martynova E., Liu R., Hamza S., Rizvanov A.A., Khaiboullina S.F., Baranwal M.	Verma, J., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Kaushal, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Manish, M., School of Computational & Integrative Sciences, Jawaharlal Nehru University, New Delhi, India; Subbarao, N., School of Computational & Integrative Sciences, Jawaharlal Nehru University, New Delhi, India; Shakirova, V., Department of Infectious Diseases, Kazan State Medical Academy, Kazan, Russian Federation; Martynova, E., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Liu, R., Department of Immunology, School of Basic Medical Sciences, Henan University of Science and Technology, Luoyang, China; Hamza, S., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Rizvanov, A.A., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Khaiboullina, S.F., Institute of Fundamental Medicine and Biology, Kazan Federal University, Kazan, Russian Federation; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7285	Modeling of Volumetric Shrinkage of Nylon Parts Fabricated by 3D Printing Process	Puri S.S., Faroze F., Sharma S., Srivastava V., Mathew A.T.	Puri, S.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Faroze, F., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., School of Mechanical Engineering, Vellore Institute of Technology, Vellore, India; Srivastava, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mathew, A.T., School of Mechanical Engineering, Vellore Institute of Technology, Vellore, India	Lecture Notes in Mechanical Engineering	2023	21954356
7286	Waterlogging Risk Assessment of Patiala City, Punjab Using Analytical Hierarchy Process and GIS Analysis: A Case Study	Goral S., Dhir A., Ratha D.	Goral, S., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes in Civil Engineering	2023	23662557

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7287	Recognition of Hypertension Through Retinal Fundus Images by Segmentation of Blood Vasculature	Kaur J., Mittal D., Singla P., Kaur R., Tiwari S.K.	Kaur, J., Department of Electronics and Communication Engineering, Punjab Engineering College (Deemed to be University), Sector 12, Chandigarh, 160012, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singla, P., Electronics and Communication Engineering Department, Department of Research and Development, Chandigarh Engineering College, Mohali, 140307, India; Kaur, R., Electronics and Communication Engineering Department, Chandigarh Engineering College, Mohali, 140307, India; Tiwari, S.K., Electronics and Communication Engineering Department, Vignan Foundation for Science and Technology, Vadlamudi, India	Lecture Notes in Electrical Engineering	2023	18761100
7288	Role of Ectomycorrhizal Fungi in Human Welfare	Chot E., Reddy M.S.	Chot, E., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Fungi and Fungal Products in Human Welfare and Biotechnology	2023	
7289	Predicting pneumatic conveyability and flowability of fly ash using bulk property characterization	Saluja G., Mallick S.S., Karmakar S.	Saluja, G., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Mallick, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Karmakar, S., NTPC NETRA & NTPC Vindhyachal, Patiala, India	Particulate Science and Technology	2023	2726351
7290	FastNTT: Design and Evaluation of Modular-Reduction Based Fast NTT Design on FPGA	Gupta H., Kabra M., Zjigyasu A., Rao M.	Gupta, H., Thapar University, India; Kabra, M., International Institute of Information Technology Bangalore, India; Zjigyasu, A., International Institute of Information Technology Bangalore, India; Rao, M., International Institute of Information Technology Bangalore, India	Proceedings of IEEE Computer Society Annual Symposium on VLSI, ISVLSI	2023	21593469
7291	Software Test Suite Minimization Using Hybrid Metaheuristics	Bajaj A., Abraham A., Sambyal N.	Bajaj, A., Thapar Institute of Engineering and Technology, Patiala, India; Abraham, A., Faculty of Computing and Data Sciences, Flame University, Pune, India; Sambyal, N., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7292	Application of RSAPSO Hybrid Optimizer for Parameter Extraction of Solar PV Cell Models under Temperature Variations	Singla M.K., Gupta J., Nijhawan P., Zeinoddini-Meymand H., Kamel S.	Singla, M.K., Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Punjab, India; Gupta, J., Department of Computer Science, Shree Guru Gobind Singh Tricentenary University, Haryana, Gurugram, India, Department of Computer Science, K.R. Mangalam University, Haryana, Gurugram, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Zeinoddini-Meymand, H., Department of Electrical and Computer Engineering, Graduate University of Advanced Technology, Kerman, Iran; Kamel, S., Department of Electrical Engineering, Faculty of Engineering, Aswan University, Aswan, Egypt	Electric Power Components and Systems	2023	15325008
7293	Learning-Based Data Science Model for Car Price Prediction	Roy A., Ghosh D.	Roy, A., NSHM Knowledge Campus Durgapur, West Bengal, India; Ghosh, D., Thapar University, Punjab, Patiala, India	Studies in Big Data	2023	21976503
7294	XCovNet: An optimized xception convolutional neural network for classification of COVID-19 from point-of-care lung ultrasound images	Madhu G., Kautish S., Gupta Y., Nagachandrika G., Biju S.M., Kumar M.	Madhu, G., Department of Information Technology, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, 90, T.S, India; Kautish, S., LBEF Campus (Asia Pacific University of Technology & Innovation, Malaysia), Kathmandu, 44600, Nepal; Gupta, Y., Thapar Institute of Engineering and Technology, Patiala, India; Nagachandrika, G., Department of Information Technology, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, 90, T.S, India; Biju, S.M., School of Computer Science, University of Wollongong in Dubai, Dubai Knowledge Park, Dubai, United Arab Emirates; Kumar, M., School of Computer Science, University of Wollongong in Dubai, Dubai Knowledge Park, Dubai, United Arab Emirates, MEU Research Unit, Middle East University, Amman, 11831, Jordan	Multimedia Tools and Applications	2023	13807501
7295	Measuring early childhood educators' knowledge of social-emotional learning pre and post training	Kaur J., Sharma A.	Kaur, J., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, A., Thapar Institute of Engineering & Technology, Patiala, India	Current Psychology	2023	10461310
7296	Cyclic voltammetry-based ethylene sensing in solid-state electrochemistry with an electroactive biopolymer/MoO3 composite membrane	Roy D., Ghosh M.	Roy, D., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India; Ghosh, M., TIET-TAU Center of Excellence for Food Security, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India, Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Solid State Electrochemistry	2023	14328488
7297	Deep Reinforcement Learning Based Energy Consumption Minimization for Intelligent Reflecting Surfaces Assisted D2D Users Underlying UAV Network	Vishnoi V., Consul P., Budhiraja I., Gupta S., Kumar N.	Vishnoi, V., School of Computer Science Engineering and Technology, Bennett University, U.P., Greater Noida, India; Consul, P., School of Computer Science Engineering and Technology, Bennett University, U.P., Greater Noida, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, U.P., Greater Noida, India; Gupta, S., School of Computer Science Engineering and Technology, Bennett University, U.P., Greater Noida, India; Kumar, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Punjab, Patiala, India	IEEE INFOCOM 2023 - Conference on Computer Communications Workshops, INFOCOM WKSHPs 2023	2023	
7298	Chua's Oscillator Based RSA Algorithm With Authenticated Masked Public Key for Secure Communication	Sharma N., Kumar P., Rai S.K.	Sharma, N., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Kumar, P., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Rai, S.K., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India	IEEE Transactions on Consumer Electronics	2023	983063

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7299	EFFECT OF PARTIAL GEO-GRID CONFINEMENT ON REINFORCED CIRCULAR SHORT COLUMNS UNDER AXIAL LOADING	Singh P., Danie Roy A.B.	Singh, P., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Danie Roy, A.B., Dept of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Proceedings of International Structural Engineering and Construction	2023	2644108X
7300	Healthcare-CT: SoLiD PoD and Blockchain-Enabled Cyber Twin Approach for Healthcare 5.0 Ecosystems	Ghayvat H., Zuhair M., Shukla N., Kumar N.	Ghayvat, H., Faculty of Technology, Linnaeus University, P G Vejdes väg, Växjö Sweden; Zuhair, M., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Shukla, N., Computer Science and Engineering, Thapar Intitute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Department of Computer Science and Engineering, Thapar University, Patiala, Punjab, India	IEEE Internet of Things Journal	2023	23274662
7301	Modeling minimum transport boundary for pneumatic conveying of powders	Saluja G., Mallick S.S., Karmakar S.	Saluja, G., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Mallick, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Karmakar, S., NTPC NETRA & NTPC Vindhyachal, India	Particulate Science and Technology	2023	2726351
7302	Edible Insects as Materials for Food Printing: Printability and Nutritional Value	Singh H., Shikuku V.	Singh, H., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shikuku, V., Department of Physical Sciences, Kaimosi Friends University, Kaimosi, Kenya	3D Printing of Sustainable Insect Materials	2023	
7303	BT-LPD: B + Tree-Inspired Community-Based Link Prediction in Dynamic Social Networks	Singh S.S., Muhuri S., Srivastava V.	Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Muhuri, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, V., Department of Computer Science and Engineering, Motilal Nehru National Institute of Technology, Prayagraj, India	Arabian Journal for Science and Engineering	2023	2193567X
7304	Power Geometric Operations of Trapezoidal Atanassov's Intuitionistic Fuzzy Numbers Based on Strict t-Norms and t-Conorms and Its Application to Multiple Attribute Group Decision Making	Yi Z., Yao L., Garg H.	Yi, Z., College of Mathematics and Information Science, Nanchang Normal University, Ruixiang RD, Jiangxi, Nanchang, 330000, China; Yao, L., College of Mathematics and Information Science, Nanchang Normal University, Ruixiang RD, Jiangxi, Nanchang, 330000, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Nasiriyah, Dhi Qar, Iraq	International Journal of Fuzzy Systems	2023	15622479
7305	Three Stage Weighted-Mean Filter Using Euclidean Distance	Soni M., Arya K.V., Garg B., Petrik I.	Soni, M., ABV Indian Institute of Information Technology & Management, Gwalior, India; Arya, K.V., ABV Indian Institute of Information Technology & Management, Gwalior, India; Garg, B., Thapar Institute of Engineering & Technology, Patiala, India; Petrik, I., Faculty of System Engineering, Universidad Nacional Federico Villarreal UNFV, Lima, Peru	Lecture Notes in Networks and Systems	2023	23673370
7306	Pneumonia Detection Using Gradient Boosting on Selected Features Extracted from DenseNet	Shukla S., Arya K.V., Garg B., Lezama P.	Shukla, S., Department of CSE, ABV - Indian Institute of Information Technology and Management, Gwalior, 474015, India; Arya, K.V., Department of CSE, ABV - Indian Institute of Information Technology and Management, Gwalior, 474015, India; Garg, B., ECED, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Lezama, P., Faculty of System Engineering, Universidad Nacional Federico Villarreal, Lima, 15088, Peru	Lecture Notes in Networks and Systems	2023	23673370
7307	Microstructural, Mechanical and Wear Characteristics of Industrial Waste (Brass Slag) Reinforced LM30 Alloy-Based Composite	Sharma M., Singhal V., Gupta A., Pandey O.P., Dwivedi V.K.	Sharma, M., Functional Materials Lab, Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India; Singhal, V., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India; Gupta, A., Functional Materials Lab, Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dwivedi, V.K., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India	Silicon	2023	1876990X
7308	Sentiment analysis of linguistic cues to assist medical image classification	Kaur P., Malhi A.K., Pannu H.S.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Malhi, A.K., Department of Computing and Informatics, Bournemouth University, Bournemouth, United Kingdom; Pannu, H.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501
7309	Design and implementation of an adaptive headlight system model for enhanced night-time driving safety	Singh S., Sharma U., Kasana I., Sadhu S.	Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, U., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kasana, I., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sadhu, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	2023	9544070
7310	Low-power Complementary Cascode Partial Positive Feedback Operational Transconductance Amplifier	Kumar R.R., Sharma K., Pandey R.	Kumar, R.R., Chitkara University Institute of Engineering and Technology, Chitkara University, Vlsi Center of Excellence, Punjab, India; Sharma, K., Chitkara University Institute of Engineering and Technology, Chitkara University, Vlsi Center of Excellence, Punjab, India; Pandey, R., Thapar Institute of Engineering & Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, India	Proceedings of the 2nd International Conference on Edge Computing and Applications, ICECAA 2023	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7311	In silico design and identification of new peptides for mitigating HIAPP aggregation in type 2 diabetes	Kaur A., Goyal B.	Kaur, A., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7312	EFFECT of BURNING BIO-MASS FUEL on the CORROSION PERFORMANCE of STEELS in the 34.5MW BOILER	Bhagria B.K., Sidhu S.S., Ahuja L., Mudgal D.	Bhagria, B.K., Department of Mechanical Engineering, Punjabi University, Punjab, Patiala, India, Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sidhu, S.S., Department of Mechanical Engineering, Punjabi University, Punjab, Patiala, India; Ahuja, L., Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Punjab, Sangrur, India; Mudgal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Surface Review and Letters	2023	0218625X
7313	Modeling pressure drop in curvature and reacceleration zones in bends during pneumatic conveying of fine powders	Sharma A., Poddar R., Saluja G., Mallick S.S.	Sharma, A., The Wolfson Centre for Bulk Solids Handling Technology, University of Greenwich, Chatham, United Kingdom; Poddar, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Saluja, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mallick, S.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Particulate Science and Technology	2023	2726351
7314	Investigating the performance evaluation of Cu-Cr tool fabricated by powder metallurgy during electrical discharge machining of EN9 steel	Shard A., Garg M.P., Gupta V.	Shard, A., Department of Mechanical Engineering, DAV University, Jalandhar, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Jalandhar, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	World Journal of Engineering	2023	17085284
7315	Understanding small and medium enterprises' behavioral intention to adopt social commerce: a perceived value perspective	Gupta P., Zhang F., Chauhan S., Goyal S., Bhardwaj A.K., Gajpal Y.	Gupta, P., Management Development Institute Gurgaon, Gurgaon, India; Zhang, F., School of Finance and Trade, Wenzhou Business College, Wenzhou, China; Chauhan, S., Jindal Global Business School, O.P. Jindal Global University, Sonipat, India; Goyal, S., LM Thapar School of Management, Derabassi Campus, Thapar Institute of Engineering and Technology, Patiala, India; Bhardwaj, A.K., LM Thapar School of Management, Derabassi Campus, Thapar Institute of Engineering and Technology, Patiala, India; Gajpal, Y., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada	Journal of Enterprise Information Management	2023	17410398
7316	Investigation of the prediction of wildlife animals and its deployment using the robot	Kaur P., Kansal S., Singh V.P.	Kaur, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kansal, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, V.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Field Robotics	2023	15564959
7317	An Improved JPEG Image Blocking Artifact Detector	Soni A., Sharma S., Bhardwaj D., Kumar S.	Soni, A., Shri Shankaracharya Institute of Technology & Management, Department of Electrical & Electronics Engineering, Chhattisgarh, Raipur, India; Sharma, S., Dr BR Ambedkar National Institute of Technology, Department of Information Technology, Punjab, Jalandhar, India; Bhardwaj, D., Thapar Institute of Engineering & Technology, Department of Electronics & Communication Engineering, Punjab, Patiala, India; Kumar, S., South Ural State University, Big Data and Machine Learning Lab, Chelyabinsk, Russian Federation	Brazilian Archives of Biology and Technology	2023	15168913
7318	Mehar approach to solve hesitant fuzzy linear programming problems	Ahuja R., Kumar A.	Ahuja, R., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to be University), Punjab, Patiala, 147004, India	Journal of Analysis	2023	9713611
7319	Determination of microgrid stability index based on measured electrical parameters and Mamdani fuzzy inference system	Mehta S., Basak P.	Mehta, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Basak, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Electrical Engineering	2023	9487921
7320	Online Interest for Electronic Cigarettes Using Google Trends in the UK: A Correlation Analysis	Sindhoo Z., Sindhoo S., Ghosh A., Kaur S., Soyiri I., Ahmadi K.	Sindhoo, Z., Lincoln Medical School, Universities of Nottingham and Lincoln, Nottingham, United Kingdom; Sindhoo, S., Imperial College London, London, United Kingdom; Ghosh, A., Department of Psychiatry, Postgraduate Institute Medical Education and Research, Chandigarh, India; Kaur, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Soyiri, I., University of Hull, Hull, United Kingdom; Ahmadi, K., Department of Primary Care and Public Health, School of Public Health, Faculty of Medicine, Imperial College London, NIHR Applied Research Collaboration Northwest London (ARC NWL), London, United Kingdom	Substance Use and Misuse	2023	10826084
7321	A Novel Framework Approach for Diabetic Retinopathy Detection	Nijhawan R., Dass A., Dhankhar A., Mendiritta N., Kumar S., Yadav A.	Nijhawan, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Patiala, India; Dass, A., University of Petroleum and Energy Studies, Computer Science and Engineering, Dehradun, India; Dhankhar, A., University of Petroleum and Energy Studies, Computer Science and Engineering, Dehradun, India; Mendiritta, N., Chandigarh University, India; Kumar, S., Medical Knowledge Group; Yadav, A., Bennett University, India	2023 3rd International Conference on Intelligent Technologies, CONIT 2023	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7322	A low-profile flower-shaped MIMO antenna for wireless applications	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, TIET-VT Center of Excellence for Emerging Materials, TIET, Punjab, Patiala, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Electronics	2023	207217
7323	Design of Frequency Sampling Rational Rate Polyphase FIR Converter	Rao K.A., Kumar A., Patel S.K., Kaplun D., Purohit N.	Rao, K.A., Department of Electronics and Communication Engineering, Indian Institute of Information Technology Allahabad, Allahabad, India; Kumar, A., Department of Electronics and Communication Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, India; Patel, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Kaplun, D., Department of Automation and Control Processes, St. Petersburg Electrotechnical University ”LETI”, St. Petersburg, Russia; Purohit, N., Department of Electronics and Communication Engineering, Indian Institute of Information Technology Allahabad, Allahabad, India	IEEE Transactions on Circuits and Systems II: Express Briefs	2023	15497747
7324	Impact of annealing on charge storage capability of thermally evaporated molybdenum oxide thin films	Kumari S., Mir R.A., Upadhyay S., Pandey O.P., Thakur A.	Kumari, S., Department of Physics, Punjabi University Patiala, Punjab147002, India; Mir, R.A., The University of British Columbia, 3333 University Way, Kelowna, BC, Canada, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Upadhyay, S., Division of Research and Innovation, Uttarakhand University, Dehradun, 248007, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thakur, A., Department of Physics, Punjabi University Patiala, Punjab147002, India	Functional Materials Letters	2023	17936047
7325	Analytical modeling and bit sequence impact investigation of XPM-SMZI-induced nonlinear crosstalk in 4 × 4 interconnect	Kaur H., Kaler R.S.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Nonlinear Optical Physics and Materials	2023	2188635
7326	An investigation into static angle of repose using pharmaceutical powders	Poddar R., Saluja G., Mallick S.S., Kundan L.	Poddar, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Saluja, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mallick, S.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kundan, L., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Particulate Science and Technology	2023	2726351
7327	Numerical study of the melting process of spherical phase change material with variable thermal conductivity	Singla T., Kumar B., Sharma S.	Singla, T., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Indian Journal of Physics	2023	9731458
7328	Effect of cooling media on bead geometry, microstructure, and mechanical properties of wire arc additive manufactured IN718 alloy	Kumar P., Sharma S.K., Raj Singh R.K.	Kumar, P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Raj Singh, R.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Advances in Manufacturing	2023	20953127
7329	An Analysis of Hybrid Consensus in Blockchain Protocols for Correctness and Progress	Roy S., Shyamasundar R.K.	Roy, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shyamasundar, R.K., Indian Institute of Technology Bombay, Maharashtra, Mumbai, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2023	3029743
7330	Innovation awards: a strategic tool for reducing Knightian uncertainty in stock markets	Singh A.P., Garg S.	Singh, A.P., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India; Garg, S., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Patiala, India	Technology Analysis and Strategic Management	2023	9537325
7331	Energy Harvesting in Fifth-Generation Wireless Network: Upcoming Challenges and Future Directions	Dwivedi N., Kumar S., Tanwar S., Tyagi S.	Dwivedi, N., Amity University, Lucknow Campus, Lucknow, India; Kumar, S., Amity University, Lucknow Campus, Lucknow, India; Tanwar, S., Institute of Technology, Nirma University, Gujarat, Ahmedabad, India; Tyagi, S., Thapar Institute of Engineering and Technology, Deemed to be University, Punjab, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7332	Energy Allocation for Vehicle-to-Grid Settings: A Low-Cost Proposal Combining DRL and VNE	Zhang P., Chen N., Kumar N., Abualigah L., Guizani M., Duan Y., Wang J., Wu S.	Zhang, P., Qingdao Institute of Software, College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Chen, N., Qingdao Institute of Software, College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Abualigah, L., Faculty of Information Technology, Al-Ahliyya Amman University, Amman, Jordan; Guizani, M., Machine Learning Department, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, UAE; Duan, Y., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Wang, J., College of Science, China University of Petroleum (East China), Qingdao, China; Wu, S., Shandong Provincial Key Laboratory of Computer Networks, Shandong Computer Science Center (National Supercomputer Center in Jinan), Qilu University of Technology (Shandong Academy of Sciences), Jinan, China	IEEE Transactions on Sustainable Computing	2023	23773782
7333	A Comparative Study of Object Detection Techniques for Automatic License Plate Recognition for Indian License Plates	Arora S., Prakash C., Rana P.S., Sood K.	Arora, S., Thapar Institute of Engineering and Technology, Department of Computer Science & Engineering, Punjab, Patiala, India; Prakash, C., Thapar Institute of Engineering and Technology, Department of Computer Science & Engineering, Punjab, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Department of Computer Science & Engineering, Punjab, Patiala, India; Sood, K., Thapar Institute of Engineering and Technology, Department of Computer Science & Engineering, Punjab, Patiala, India	5th International Conference on Energy, Power, and Environment: Towards Flexible Green Energy Technologies, ICEPE 2023	2023	
7334	SAAF-IoD: Secure and Anonymous Authentication Framework for the Internet of Drones	Tanveer M., Alasmry H., Kumar N., Nayak A.	Tanveer, M., School of Systems and Technology (SST), University of Management and Technology, Lahore, Pakistan; Alasmry, H., Department of Computer Science, College of Computer Science, King Khalid University, Abha, Asir, Saudi Arabia; Kumar, N., CSE, Thapar University, Patiala, India; Nayak, A., School of Electrical Engineering & Computer Science (SECS), University of Ottawa, Ottawa, ON, Canada	IEEE Transactions on Vehicular Technology	2023	189545
7335	In silico analysis of Diosmetin as an effective chemopreventive agent against prostate cancer: molecular docking, validation, dynamic simulation and pharmacokinetic prediction-based studies	Sheoran S., Arora S., Basu T., Negi S., Subbarao N., Kumar A., Singh H., Prabhu D., Upadhyay A.K., Kumar N., Vuree S.	Sheoran, S., School of Bioengineering & Biosciences, Lovely Professional University, Jalandhar, India; Arora, S., School of Bioengineering & Biosciences, Lovely Professional University, Jalandhar, India; Basu, T., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Negi, S., Department of Chemistry, Delhi University, New Delhi, India; Subbarao, N., School of Computational & Integrative Sciences, Jawaharlal Nehru University, New Delhi, India; Kumar, A., School of Bioengineering & Biosciences, Lovely Professional University, Jalandhar, India; Singh, H., School of Bioengineering & Biosciences, Lovely Professional University, Jalandhar, India; Prabhu, D., Centre for Drug Discovery, Department of Biotechnology, Karpagam Academy of Higher Education, Coimbatore, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Geetanjali Institute of Pharmacy, Udaipur, India; Vuree, S., School of Bioengineering & Biosciences, Lovely Professional University, Jalandhar, India, MNR Foundation for Research and Innovation (MNR-FRI), MNR Medical College and Hospital, Fasalwadi Village, Hyderabad, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7336	Content-Based Image Retrieval: A Survey on Local and Global Features Selection, Extraction, Representation, and Evaluation Parameters	Srivastava D., Singh S.S., Rajitha B., Verma M., Kaur M., Lee H.-N.	Srivastava, D., Bennett University, School of Computer Science Engineering and Technology (SCSET), Greater Noida, 201310, India; Singh, S.S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering (CSED), Patiala, 147004, India; Rajitha, B., MNNIT Allahabad, Department of Computer Science and Engineering (CSED), Prayagraj, 211004, India; Verma, M., Bennett University, School of Computer Science Engineering and Technology (SCSET), Greater Noida, 201310, India; Kaur, M., SR University, School of Computer Science and Artificial Intelligence, Telangana, Warangal, 506371, India; Lee, H.-N., Gwangju Institute of Science and Technology, School of Electrical Engineering and Computer Science, Gwangju, 61005, South Korea	IEEE Access	2023	21693536
7337	Stability and controllability of ψ -Caputo fractional stochastic differential systems driven by Rosenblatt process with impulses	Dhayal R., Gómez-Aguilar J.F., Pérez-Careta E.	Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Gómez-Aguilar, J.F., CONACyT-Tecnológico Nacional de México/CENIDET, Interior Internado Palmira S/N, Col. Palmira, Morelos, Cuernavaca, 62490, Mexico; Pérez-Careta, E., Dpto. Electrónica, Universidad de Guanajuato, Carretera Salamanca-Valle de Santiago Km 3 + 1.8, GTO, Salamanca, Mexico	International Journal of Dynamics and Control	2023	2195268X
7338	Synthesis and Electrochemical Corrosion Behaviour of High Entropy Alloys	Neeraj N., Singh D., Thakur L., Bajpai V.K., Kumar R., Mehtani H.K.	Neeraj, N., Department of Mechanical Engineering, National Institute of Technology Kurukshetra, Haryana, 136119, India; Singh, D., Department of Metallurgical and Material Engineering, Indian Institute of Technology, Ropar, Punjab, Rupnagar, 140001, India; Thakur, L., Department of Mechanical Engineering, National Institute of Technology Kurukshetra, Haryana, 136119, India; Bajpai, V.K., Department of Mechanical Engineering, National Institute of Technology Kurukshetra, Haryana, 136119, India; Kumar, R., Department of Metallurgical and Material Engineering, Indian Institute of Technology, Ropar, Punjab, Rupnagar, 140001, India; Mehtani, H.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Transactions of the Indian Institute of Metals	2023	9722815
7339	Finding correlation between diabetic retinopathy and diabetes during pregnancy based on computer-aided diagnosis: a review	Ghosh D., Chowdhury K., Muhuri S.	Ghosh, D., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Chowdhury, K., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Muhuri, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7340	New Normal Manufacturing Industry Post-Pandemic 2020	Arora M., Goel A.	Arora, M., Thapar School of Liberal Arts and Sciences, Thapar University, Patiala, India; Goel, A., Chitkara University, India	Changing World Economic Order in the Post- Pandemic Period	2023	
7341	Sampling, Characterization, and Monitoring	Achhoda M., Halder N., Adagadda L., Gorai S., Sharma M.K., Sahoo N.K., Chand S., Rout P.R.	Achhoda, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Halder, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Adagadda, L., CSIR-National Environmental Engineering Research Institute, Maharashtra, Nagpur, India, Department of Civil Engineering, M.S. Ramaiah Institute of Technology, Karnataka, Bangalore, India; Gorai, S., School of Energy & Environment, Thapar Institute of Engineering & Technology, Punjab, India; Sharma, M.K., Department of Civil Engineering, Manipal University Jaipur, Rajasthan, India; Sahoo, N.K., Department of Chemistry, Institute of Technical Education and Research, Odisha, Bhubaneswar, India; Chand, S., Centre of Sustainable Built Environment, Manipal School of Architecture and Planning, Manipal Academy of Higher Education, Karnataka, Manipal, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India	Microconstituents in the Environment: Occurrence, Fate, Removal, and Management	2023	
7342	Editorial: Fuzzy mathematical model and optimization in digital green innovation for Industry 5.0	Yin S., Pamucar D., Ullah K., Garg H.	Yin, S., Hebei Agricultural University, Baoding, China; Pamucar, D., University of Belgrade, Belgrade, Serbia; Ullah, K., Riphah International University Islamabad (Lahore Campus), Lahore, Pakistan; Garg, H., Thapar Institute of Engineering and Technology, Patiala, India	Frontiers in Environmental Science	2023	2296665X
7343	Introduction to Microconstituents	Behera M., Rout P.R., Bhunia P., Surampalli R.Y., Zhang T.C., Kao C.-M., Ghangrekar M.M.	Behera, M., School of Infrastructure, Indian Institute of Technology Bhubaneswar, Odisha, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India; Bhunia, P., School of Infrastructure, Indian Institute of Technology Bhubaneswar, Odisha, India; Surampalli, R.Y., Global Institute for Energy, Environment and Sustainability, Lenexa, KS, United States; Zhang, T.C., Civil and Environmental Engineering, College of Engineering, University Nebraska, Lincoln, Omaha, NE, United States; Kao, C.-M., Civil and Environmental Engineering, College of Engineering, University Nebraska, Lincoln, Omaha, NE, United States, Institute of Environmental Engineering, National Sun Yat-sen University, Kaohsiung, Taiwan; Ghangrekar, M.M., Department of Civil Engineering, Indian Institute of Technology Kharagpur, West Bengal, India, School of Environmental Science and Engineering, Indian Institute of Technology Kharagpur, West Bengal, India	Microconstituents in the Environment: Occurrence, Fate, Removal, and Management	2023	
7344	Occurrence	Rout P.R., Behera M., Bhunia P., Zhang T.C., Surampalli R.Y.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India; Behera, M., School of Infrastructure, Indian Institute of Technology Bhubaneswar, Odisha, India; Bhunia, P., School of Infrastructure, Indian Institute of Technology Bhubaneswar, Odisha, India; Zhang, T.C., Civil and Environmental Engineering, College of Engineering, University of Nebraska, Lincoln, Omaha, NE, United States; Surampalli, R.Y., Global Institute for Energy, Environment and Sustainability, Lenexa, KS, United States	Microconstituents in the Environment: Occurrence, Fate, Removal, and Management	2023	
7345	Mathematical Transport System of Microconstituents	Ratha D., Babbar R., Hariprasad K.S., Ojha C.S.P., Baranwal M., Rout P.R., Parihar A.	Ratha, D., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Babbar, R., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Hariprasad, K.S., Department of Civil Engineering, Indian Institute of Technology Roorkee, India; Ojha, C.S.P., Department of Civil Engineering, Indian Institute of Technology Roorkee, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India; Parihar, A., Department of Civil Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Microconstituents in the Environment: Occurrence, Fate, Removal, and Management	2023	
7346	Various Perspectives on Occurrence, Sources, Measurement Techniques, Transport, and Insights Into Future Scope for Research of Atmospheric Microplastics	Behera S.N., Yadav M., Kumar V., Rout P.R.	Behera, S.N., Air Quality Laboratory, Department of Civil Engineering, Shiv Nadar University, Delhi-NCR, Gautam Buddha Nagar, Uttar Pradesh, Greater Noida, India, Centre for Environmental Sciences and Engineering, Shiv Nadar University, Delhi-NCR, Gautam Buddha Nagar, Uttar Pradesh, Greater Noida, India; Yadav, M., Air Quality Laboratory, Department of Civil Engineering, Shiv Nadar University, Delhi-NCR, Gautam Buddha Nagar, Uttar Pradesh, Greater Noida, India; Kumar, V., Air Quality Laboratory, Department of Civil Engineering, Shiv Nadar University, Delhi-NCR, Gautam Buddha Nagar, Uttar Pradesh, Greater Noida, India; Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India	Microconstituents in the Environment: Occurrence, Fate, Removal, and Management	2023	
7347	No Simple Way to Say Goodbye! Untangling the Heterogeneity of Social Venture Founder Exit Intention	Singaram R., Kraaijenbrink J., Gartner W.B.	Singaram, R., Audencia Business School, Nantes, France, LM Thapar School of Management, Chandigarh, India; Kraaijenbrink, J., University of Amsterdam, Amsterdam, Netherlands; Gartner, W.B., Babson College, Babson Park, MA, United States, Linneaus University, Växjö, Sweden	Entrepreneurship: Theory and Practice	2023	10422587

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7348	Performance analysis of a cross-gain modulation (XGM) utilization in bulk-semiconductor optical amplifiers (SOAs) based all-optical 2R regeneration scheme	Singh K., Kaur G., Bansal M., Gupta V.	Singh, K., Department of Electronics and Communication Engineering, National Institute of Technology Kurukshetra, Haryana, 136119, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab, 147001, India; Bansal, M., Department of Electronics and Communication Engineering, Thapar University, Patiala, Punjab, 147001, India; Gupta, V., Department of Electronics and Communication Engineering, National Institute of Technology Kurukshetra, Haryana, 136119, India	Journal of Optics (India)	2023	9728821
7349	NCGTM: A Noncooperative Game-Theoretic Model to Assist IDS in Cloud Environment	Gill K.S., Saxena S., Sharma A.	Gill, K.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, A., Department of Computational Sciences, MRSPTU, Bathinda, India	IEEE Transactions on Industrial Informatics	2023	15513203
7350	Examining consumers' behavioral intentions towards online home services applications	Chauhan S., Gajpal Y., Bhardwaj B., Kumar P., Goyal S., Yang X., Bhardwaj A.K.	Chauhan, S., O.P. Jindal Global University, Sonapat, India; Gajpal, Y., Asper School of Business, Canada; Bhardwaj, B., The Institute of Chartered Accountants of India, India; Kumar, P., Indian Institute of Management, Sambalpur, India; Goyal, S., L.M. Thapar School of Management, India; Yang, X., Asper School of Business, Canada; Bhardwaj, A.K., Thapar Institute of Engineering and Technology, Dera Bassi, India	Journal of Global Information Management	2023	10627375
7351	DeepCONN: patch-wise deep convolutional neural networks for the segmentation of multiple sclerosis brain lesions	Kaur A., Kaur L., Singh A.	Kaur, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kaur, L., Computer Science and Engineering Department, University College of Engineering, Punjabi University, Punjab, Patiala, 147001, India; Singh, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Multimedia Tools and Applications	2023	13807501
7352	Q-rung orthopair hesitant fuzzy preference relations and its group decision-making application	Wan B., Zhang J., Garg H., Huang W.	Wan, B., Shenzhen Research Institute, Jiangxi University of Finance and Economics, ShenZhen, 518000, China, School of Software and IoT Engineering, Jiangxi University of Finance and Economics, Nanchang, 330013, China; Zhang, J., School of Software and IoT Engineering, Jiangxi University of Finance and Economics, Nanchang, 330013, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala-147004, Punjab, India, Department of Mathematics, Graphics Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Nasiriyah, Dhi Qar, Iraq; Huang, W., School of Software and IoT Engineering, Jiangxi University of Finance and Economics, Nanchang, 330013, China	Complex and Intelligent Systems	2023	21994536
7353	EXISTENCE OF SOLUTIONS TO MULTIVALUED PROBLEMS IN INCOMPLETE METRIC SPACES WITH APPLICATIONS	Chandok S.	Chandok, S., Thapar Institute of Engineering & Technology, School of Mathematics, Punjab, Patiala, 147004, India	Miskolc Mathematical Notes	2023	17872405
7354	Ensemble Transfer Learning for Robust Human Activity Recognition from Images	Dhatarwal A., Ratnoo S., Bajaj A., Abraham A.	Dhatarwal, A., Department of Computer Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, 125001, India; Ratnoo, S., Department of Computer Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, 125001, India; Bajaj, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Abraham, A., Faculty of Computing and Data Science, Flame University, Pune, India	International Journal of Computer Information Systems and Industrial Management Applications	2023	21507988
7355	Artificial Neural Networks and Neuro-Fuzzy Models: Applications in Pharmaceutical Product Development	Singh I., Kaur J., Kaur S., Barik B.R., Pahwa R.	Singh, I., Chitkara University, Chitkara College of Pharmacy, Punjab, India; Kaur, J., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, India; Kaur, S., Chitkara University, Chitkara College of Pharmacy, Punjab, India; Barik, B.R., Chitkara University, Chitkara College of Pharmacy, Punjab, India; Pahwa, R., Kurukshetra University, Institute of Pharmaceutical Sciences, Haryana, Kurukshetra, India	Brazilian Archives of Biology and Technology	2023	15168913
7356	Edge-AI tools and techniques for healthcare	Nijhawan R., Bhatia S.	Nijhawan, R., Thapar University, Patiala, India; Bhatia, S., UPES University, Dehradun, India	Edge-AI in Healthcare: Trends and Future Perspectives	2023	
7357	Preface	Mahana S.K., Aggarwal R.K., Singh S.	Mahana, S.K., National Institute of Technology, Kurukshetra, India; Aggarwal, R.K., National Institute of Technology, Kurukshetra, India; Singh, S., Thapar Institute of Engineering and Technology, India	Examining Multimedia Forensics and Content Integrity	2023	
7358	Examining Multimedia Forensics and Content Integrity	Mahana S.K., Aggarwal R.K., Singh S.	Mahana, S.K., National Institute of Technology, Kurukshetra, India; Aggarwal, R.K., National Institute of Technology, Kurukshetra, India; Singh, S., Thapar Institute of Engineering and Technology, India	Examining Multimedia Forensics and Content Integrity	2023	
7359	One-Class ELM Ensemble-Based DDoS Attack Detection in Multimedia Cloud Computing	Kushwah G.S., Singh S., Mahana S.K.	Kushwah, G.S., National Institute of Technology, Kurukshetra, India; Singh, S., Thapar Institute of Engineering and Technology, India; Mahana, S.K., National Institute of Technology, Kurukshetra, India	Examining Multimedia Forensics and Content Integrity	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7360	Prognostication of Myocardial Infarction Using Lattice Ordered Linear Diophantine Multi-fuzzy Soft Set	Vimala J., Garg H., Jeevitha K.	Vimala, J., Department of Mathematics, Alagappa University, Tamilnadu, Karaikudi, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Jeevitha, K., Department of Mathematics, Alagappa University, Tamilnadu, Karaikudi, India	International Journal of Fuzzy Systems	2023	15622479
7361	Linear diophantine multi-fuzzy aggregation operators and its application in digital transformation	Jeevitha K., Garg H., Vimala J., Aljuaid H., Abdel-Aty A.-H.	Jeevitha, K., Department of Mathematics, Alagappa University, Karaikudi, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Vimala, J., Department of Mathematics, Alagappa University, Karaikudi, India; Aljuaid, H., Department of Computer Sciences, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia; Abdel-Aty, A.-H., Department of Physics, College of Sciences, University of Bisha, Bisha, Saudi Arabia, Department of Physics, Faculty of Science, Al-Azhar University, Assiut, Egypt	Journal of Intelligent and Fuzzy Systems	2023	10641246
7362	Nano-Modified Epoxy Coatings for Enhanced Corrosion Inhibition in Reinforcing Bars	Sharma N., Sharma S., Sharma S.K., Mehta R.	Sharma, N., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India, Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India, Civil Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S.K., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India, Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Mehta, R., TIET-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering & Technology, Patiala, India, Chemical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India	Transactions of the Indian Institute of Metals	2023	9722815
7363	Research on recognition of students attention in offline classroom-based on deep learning	Akila D., Garg H., Pal S., Jeyalakshmi S.	Akila, D., Department of Computer Applications, SIMATS Deemed University, Chennai, India; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq; Pal, S., Department of Computer Science & Engineering, Sister Nivedita University (Techno India Group), Kolkata, India; Jeyalakshmi, S., Department of Information Technology, Vels Institute of Science Technology and Advanced Studies, Chennai, India	Education and Information Technologies	2023	13602357
7364	A review and bibliometric study of bacteria-based self-healing of concrete	Raza M.N., Hussain S., Singh M., Yadav J.S.	Raza, M.N., Department of Civil Engineering, Muffakham Jah College of Engineering & Technology, Hyderabad, 500034, India; Hussain, S., Trenchless Technology Center, Louisiana Tech University, Ruston, LA 71272, United States; Singh, M., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Yadav, J.S., Department of Civil Engineering, National Institute of Technology Kurukshetra, Haryana, Thanesar, 136119, India	Multiscale and Multidisciplinary Modeling, Experiments and Design	2023	25208179
7365	Reversible medical image watermarking for tamper detection using ANN and SLT	Bamal R., Kasana S.S.	Bamal, R., Computer Science Engineering Department, Thapar University, Punjab, Patiala, 147004, India; Kasana, S.S., Computer Science and Information Technology, Central University of Haryana, Haryana, Mahendergarh, India	Multimedia Tools and Applications	2023	13807501
7366	Performance study of paracetamol sequestration from hospital wastewater by thermo-chemical activated sandstone clay: understanding of the removal mechanism	Maazouzi A., Aguedal H., Driouch A., Merouani D.R., Singh K., Goel G., El Aissaoui el Meliani M.E.A.	Maazouzi, A., Laboratory of Materials Valorization, Faculty of Science and Technology, University Abdelhamid Ibn Badis, Mostaganem, Algeria; Aguedal, H., Laboratory of Saharan Natural Resources, Faculty of Sciences and Technology, University of Ahmed Draia, Adrar, Algeria, Department of Preparatory Classes Higher School of Saharan Agriculture, Adrar, Algeria; Driouch, A., Laboratory of Materials Valorization, Faculty of Science and Technology, University Abdelhamid Ibn Badis, Mostaganem, Algeria; Merouani, D.R., Laboratory of Materials Valorization, Faculty of Science and Technology, University Abdelhamid Ibn Badis, Mostaganem, Algeria; Singh, K., Department of Civil Engineering, MM Engineering College, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, India; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India, School of Aerospace, Transport and Manufacturing, Cranfield University, Bedford, United Kingdom; El Aissaoui el Meliani, M.E.A., Laboratory of Saharan Natural Resources, Faculty of Sciences and Technology, University of Ahmed Draia, Adrar, Algeria, Recycle Engineering Laboratory, Faculty of Environmental Engineering, The University of Kitakyushu, Kitakyushu, Japan	International Journal of Environmental Analytical Chemistry	2023	3067319

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7367	Machine learning-based ensemble approach in prediction of lung cancer predisposition using XRCC1 gene polymorphism	Choudhary A., Anand A., Singh A., Roy P., Singh N., Kumar V., Sharma S., Baranwal M.	Choudhary, A., Department of Computer Science, Thapar Institute of Engineering & Technology, India; Anand, A., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, India; Singh, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Roy, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Education and Medical Research (PGIMER), Chandigarh, India; Kumar, V., Department of Electronics & Communication Engineering, Thapar Institute of Engineering & Technology, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Baranwal, M., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7368	INDUCED RICCI TYPE TENSORS OF GCR-LIGHTLIKE SUBMANIFOLDS OF INDEFINITE SASAKIAN MANIFOLDS	Jain V., Bhatia S.S., Kumar R.	Jain, V., Department of Mathematics, Multani Mal Modi College, Punjab, Patiala, 147 001, India; Bhatia, S.S., Department of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 001, India; Kumar, R., Department of Mathematics, Punjabi University, Punjab, Patiala, 147 002, India	Palestine Journal of Mathematics	2023	22195688
7369	In silico study of novel alpha tocopheroids as effective inhibitors of aldo-keto reductase 1c3 (AKR1C3) enzyme	Basu T., Upadhyay A.K.	Basu, T., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Upadhyay, A.K., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7370	HSAM: Hybrid Sentiment Analysis Model for COVID-19 Contact Tracing Applications	Singh R., Kumar N.	Singh, R., University of Bath, Department of Computer Science, United Kingdom; Kumar, N., Thapar University, Department of Computer Science, PB, Patiala, India	2023 IEEE World AI IoT Congress, AllIoT 2023	2023	
7371	Enhanced Microwave Absorption Performance of Agriculture Corn Husk waste mixing with CNT	Gupta H., Khanna R., Kumar Rai M.	Gupta, H., Thapar Institute of Engineering and Technology, Electronics and Communication Department, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Electronics and Communication Department, Patiala, India; Kumar Rai, M., Thapar Institute of Engineering and Technology, Electronics and Communication Department, Patiala, India	International Conference on Microwave, Antenna and Communication, MAC 2023	2023	
7372	Development of A Women Safety Smartphone Application- SAKHI	Agarwal A.V., Singh V., Kamboj A., Sirohi A., Mehto A.	Agarwal, A.V., Thapar Institute of Engg. & Tech., Department of Cse, Punjab, Patiala, India; Singh, V., Thapar Institute of Engg. & Tech., Department of Cse, Punjab, Patiala, India; Kamboj, A., Thapar Institute of Engg. & Tech., Department of Cse, Punjab, Patiala, India; Sirohi, A., Thapar Institute of Engg. & Tech., Department of Cse, Punjab, Patiala, India; Mehto, A., Thapar Institute of Engg. & Tech., Department of Cse, Punjab, Patiala, India	ICSCC 2023 - 3rd International Conference on Secure Cyber Computing and Communications	2023	
7373	Effect of Soil Type on Efficiency of Recycled Jute Fibre as Natural Reinforcing Material	Parihar A., Attri K., Saini B.	Parihar, A., Thapar Institute of Engineering & Technology, Patiala, India; Attri, K., NIT Kurukshetra, Kurukshetra, India; Saini, B., NIT Kurukshetra, Kurukshetra, India	World Congress on Civil, Structural, and Environmental Engineering	2023	23715294
7374	Surging Use of Nanoselenium in Sustenance of Agriculture	Joshi N., Mahajan N., Kaur G.	Joshi, N., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mahajan, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, G., Department of Processing and Food Engineering, Punjab Agricultural University, Punjab, Ludhiana, India	Communications in Soil Science and Plant Analysis	2023	103624
7375	An improved maximum boost control technique for CDBC-based three-level ZSI	Sonar S., Mondal S.	Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Mondal, S., Department of Electrical Engineering, Institute of Engineering & Management, Kolkata, India	International Journal of Electronics	2023	207217
7376	Experimental Validation of Space Vector-based PWM Technique for 3L-VSI	Sonar S., Mondal S.	Sonar, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mondal, S., Institute of Engineering and Management, Kolkata, India	2023 4th International Conference for Emerging Technology, INCET 2023	2023	
7377	Blockchain based System for Secure Property Registration	Mehta N., Rani R., Kalra N.	Mehta, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Kalra, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	International Conference on Sustainable Computing and Smart Systems, ICSCSS 2023 - Proceedings	2023	
7378	GA-BILSTM: an intelligent energy prediction and optimization approach for individual home appliances	Kaur S., Bala A., Parashar A.	Kaur, S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Bala, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Parashar, A., Computer Application Department, National Institute of Technology, Kurukshetra, India	Evolving Systems	2023	18686478
7379	Grounded Meminductor Emulator using Operational Amplifiers and Memristor	Gupta S., Gupta M., Rai S.K., Singh S.P.	Gupta, S., Eced, Netaji Subhas University of Technology, Delhi, New Delhi, India; Gupta, M., Eced, Netaji Subhas University of Technology, Delhi, New Delhi, India; Rai, S.K., Eced, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S.P., Eced, Netaji Subhas University of Technology, Delhi, New Delhi, India	International Conference on Sustainable Computing and Smart Systems, ICSCSS 2023 - Proceedings	2023	
7380	THE CONVECTIVE FLOW OF MAXWELL FLUID DRIVEN BY TWO ROTATING AND SPINNING DISKS	Singla T., Sharma S., Kumar B.	Singla, T., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Latin American Applied Research	2023	3270793

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7381	Heuristic-based text segmentation of bilingual handwritten documents for Gurumukhi-Latin scripts	Kaur S., Bawa S., Kumar R.	Kaur, S., Computer Science and Engineering department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Bawa, S., Computer Science and Engineering department, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, R., Computer Science and Engineering department, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Multimedia Tools and Applications	2023	13807501
7382	Formulation and evaluation of solid lipid nanoparticles loaded with papaya seed chloroform extract for long-term antifertility effects on the male rat, <i>Bandicota bengalensis</i>	Thukral R., Arora P., Sharma S., Choudhury D., Singla N.	Thukral, R., Department of Zoology, Punjab Agricultural University, Ludhiana, India; Arora, P., Department of Zoology, Punjab Agricultural University, Ludhiana, India; Sharma, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, India; TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, India; Singla, N., Department of Zoology, Punjab Agricultural University, Ludhiana, India	Drug and Chemical Toxicology	2023	1480545
7383	Multi-attribute decision-making based on sine trigonometric aggregation operators for T-spherical fuzzy information	Garg H., Ullah K., Ali K., Akram M., Abid M.N.	Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq, College of Technical Engineering, Department of Medical Devices Engineering Technologies, National University of Science and Technology, Dhi Qar, Nasiriyah, Iraq; Ullah, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Ali, K., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Akram, M., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan; Abid, M.N., Department of Mathematics, Riphah Institute of Computing and Applied Sciences, Riphah International University Lahore, Lahore, 54000, Pakistan	Soft Computing	2023	14327643
7384	A Low-Profile AMC-Backed Octagonal Chipless RFID Tag with Enhanced Read Range	Kaur M., Agarwal M., Khanna R.	Kaur, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, 147001, India	Arabian Journal for Science and Engineering	2023	2193567X
7385	Simulative and comparative analysis of crosstalk utilizing VOA-MZI-based all-photonic cross-connect technique for telecom applications	Sumati, Randhawa R., Kaur H.	Sumati, Department of Electronics and Communication Engineering, TIET, Punjab, Patiala, India; Randhawa, R., Department of Computer Science, Punjabi University, Patiala, India; Kaur, H., Department of Electronics and Communication Engineering, TIET, Punjab, Patiala, India	Journal of Optics (India)	2023	9728821
7386	An extended TOPSIS and entropy measure based on Sugeno integral in Pythagorean fuzzy set setting	Garg H., Ünver M., Aydoğan B., Olgun M.	Garg, H., School of Mathematics, Thapar Institute of Engineering Technology (Deemed University), Punjab, Patiala, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Ünver, M., Ankara University, Faculty of Science, Department of Mathematics, Ankara, Turkey; Aydoğan, B., Ankara University, Faculty of Science, Department of Mathematics, Ankara, Turkey; Olgun, M., Ankara University, Faculty of Science, Department of Mathematics, Ankara, Turkey	Journal of Intelligent and Fuzzy Systems	2023	10641246
7387	Combining varying training data-based artificial intelligence models for energy price forecasting	Rani N., Aggarwal S.K., Kumar S.	Rani, N., School of Mathematics, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Aggarwal, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology (TIET), Patiala, India; Kumar, S., School of Mathematics, Thapar Institute of Engineering and Technology (TIET), Patiala, India	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A	2023	2533839
7388	Optimal controls of impulsive fractional stochastic differential systems driven by Rosenblatt process with state-dependent delay	Dhayal R., Malik M., Zhu Q.	Dhayal, R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Malik, M., School of Mathematical and Statistical Sciences, Indian Institute of Technology Mandi, Kamand, India; Zhu, Q., CHP-LCOCS, School of Mathematics and Statistics, Hunan Normal University, Changsha, China	Asian Journal of Control	2023	15618625
7389	Automated Detection and Segmentation of Exudates for the Screening of Background Retinopathy	Kaur J., Mittal D., Malebary S., Nayak S.R., Kumar D., Kumar M., Gagandeep, Singh S.	Kaur, J., Department of Electronics and Communication Engineering, Punjab Engineering College (Deemed to be University), Sector 12, Chandigarh, 160012, India; Mittal, D., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Malebary, S., Department of Information Technology, Faculty of Computing and Information Technology in Rabigh, King Abdulaziz University, Jeddah, 21911, Saudi Arabia; Nayak, S.R., School of Computer Engineering, KIIT Deemed to be University, Odisha, Bhubaneswar, 751024, India; Kumar, D., Department of Computer Science, Wachemo University, Hosaena, Ethiopia; Kumar, M., Faculty of Engineering and Information Sciences, University of Wollongong in Dubai, Dubai Knowledge Park, United Arab Emirates, MEU Research Unit, Middle East University, Amman, 11831, Jordan; Gagandeep, Computer Science Engineering Department, Chandigarh Engineering College, Mohali, India; Singh, S., Electronics and Communication Engineering Department, UCRD, Chandigarh University, Mohali, India	Journal of Healthcare Engineering	2023	20402295

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7390	Crosstalk reduction in multiwavelength VOA-loop-based photonic cross-connect for mixed line rate networks	Sumati, Kaur H., Randhawa R.	Sumati, Department of Electronics and Communication Engineering, TIET, Punjab, Patiala, India; Kaur, H., Department of Electronics and Communication Engineering, TIET, Punjab, Patiala, India; Randhawa, R., Department of Computer Science, Punjabi University, Patiala, India	Journal of Optical Communications	2023	1734911
7391	Renewable Energy Directives and Global Policies for Different Generation of Biofuel	Sharma D., Mathew A., Kondusamy D., Nema A., Prasad R., Mritunjay M., Radhakrishnan L., Dagwar P.P.	Sharma, D., Sharda University, India; Mathew, A., Department of Civil Engineering, National Institute of Technology, Tiruchirappalli, India; Kondusamy, D., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India; Nema, A., Civil Engineering Department, School of Engineering, Ekavya University, Damoh, India; Prasad, R., G. H. Raisoni Institute of Business Management, Jalgaon, India; Mritunjay, M., Civil Engineering, Department National Institute of Technology, Patna, India; Radhakrishnan, L., Institute for Globally Distributed Open Research and Education, Indian Green Service, Delhi, India; Dagwar, P.P., Bharathidasan University, Tiruchirappalli, India	Biofuels: Technologies, Policies, and Opportunities	2023	
7392	Resource Orchestration and Allocation of EZE Slices in Software-defined UAVs-Assisted 6G Terrestrial Networks	Cao H., Kumar N., Yang L., Guizani M., Yu F.R.	Cao, H., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Yang, L., Jiangsu Key Laboratory of Wireless Communications, Nanjing University of Posts and Telecommunications, Nanjing, China; Guizani, M., Machine Learning Department, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, UAE; Yu, F.R., Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada	IEEE Transactions on Network and Service Management	2023	19324537
7393	Deep learning based high performance classification architecture for low-altitude aerial images	Mittal P., Sharma A., Singh R.	Mittal, P., Thapar Institute of Engineering & Technology, Patiala, India; Sharma, A., UIET, Panjab University Chandigarh, Chandigarh, India; Singh, R., Lecturer in Cyber Security, University of the West of Scotland, Lanarkshire, United Kingdom	Multimedia Tools and Applications	2023	13807501
7394	Supply chain resilience in developing countries: a bibliometric analysis and future research directions	Kumar A., Singh R.K., Singh D.	Kumar, A., Westminster International University in Tashkent, Tashkent, Uzbekistan; Singh, R.K., International Management Institute – Kolkata, Kolkata, India; Singh, D., Thapar Institute of Engineering and Technology, Deemed to be University, Patiala, India	Benchmarking	2023	14635771
7395	MABAC framework for logarithmic bipolar fuzzy multiple attribute group decision-making for supplier selection	Jana C., Garg H., Pal M., Sarkar B., Wei G.	Jana, C., Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore, 721102, India; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Pal, M., Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore, 721102, India; Sarkar, B., Department of Industrial Engineering, Yonsei University, Seoul, 03722, South Korea, Center for Transdisciplinary Research (CFTR), Saveetha Dental College, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, 600077, India; Wei, G., School of Mathematical Sciences, Sichuan Normal University, Chengdu, 610101, China	Complex and Intelligent Systems	2023	21994536
7396	Corrosion inhibition mechanism of aromatic amino acids for steel in alkaline pore solution simulating carbonated concrete environment	Purnima, Goyal S., Luxami V.	Purnima, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Materials and Corrosion	2023	9475117
7397	Dynamic Bandwidth Allocation Using Linear Regression Model in IOT with Machine Learning Techniques	Shekhar, Bhandari G., Tyagi S.	Shekhar, ICFAI Tech School, The ICFAI University, Dehradun, India; Bhandari, G., ICFAI Tech School, The ICFAI University, Dehradun, India; Tyagi, S., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7398	Analysis of Design Quantum Multiplexer Using CSWAP and Controlled-R Gates	Tara V., Sharma N., Kumar P., Gautam K.	Tara, V., Thapar Institute of Engineering and Technology, Quantum Computing Department, Quantum Research and Centre of Excellence, New Delhi, India; Sharma, N., Thapar Institute of Engineering and Technology, Quantum Computing Department, Quantum Research and Centre of Excellence, New Delhi, India; Kumar, P., Thapar Institute of Engineering and Technology, Quantum Computing Department, Quantum Research and Centre of Excellence, New Delhi, India; Gautam, K., Quantum Computing Department, Quantum Research and Centre of Excellence, New Delhi, India	Evolution and Applications of Quantum Computing	2023	
7399	An Ensemble Technique to Detect Stress in Young Professional	Ahuja R., Roul R.K.	Ahuja, R., Thapar Institute of Engineering and Technology, Patiala, India; Roul, R.K., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2023	3029743

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7400	Experimental study on the mechanical and hygroscopic properties of alkaline-treated Grewia optiva/basalt fiber-reinforced polymer composites	Bijlwan P.P., Prasad L., Sharma A., Gupta M.K., Kumar V.	Bijlwan, P.P., Mechanical Engineering Department, National Institute of Technology Uttarakhand, Srinagar Garhwal, 246174, India; Prasad, L., Mechanical Engineering Department, National Institute of Technology Uttarakhand, Srinagar Garhwal, 246174, India; Sharma, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, M.K., Mechanical Engineering Department, Hemvati Nandan Bahuguna Garhwal University, Srinagar Garhwal, 246174, India; Kumar, V., Mechanical Engineering Department, Harcourt Butler Technical University, Kanpur, 208002, India	Biomass Conversion and Biorefinery	2023	21906815
7401	A Blockchain-Driven Framework for Issuance of NFT-Based Warranty to Customers on E-Commerce	Devrani S., Ahuja R., Goel A., Kharbanda S.S.	Devrani, S., Thapar Institute of Engineering and Technology, Patiala, India; Ahuja, R., Thapar Institute of Engineering and Technology, Patiala, India; Goel, A., Thapar Institute of Engineering and Technology, Patiala, India; Kharbanda, S.S., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2023	3029743
7402	Multilevel Deep Learning Model for Fabric Classification and Defect Detection	Goyal P., Agarwal A., Singhal K., Chinagundi B., Singh Rana P.	Goyal, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agarwal, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singhal, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chinagundi, B., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh Rana, P., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7403	Application of wavelet neural network for dynamic analysis of moment resisting frames	Joshi S.G., Kwatra N.	Joshi, S.G., Department of Civil Engineering, Vishwakarma Institute of Information Technology, Maharashtra, Pune, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Asian Journal of Civil Engineering	2023	15630854
7404	Design of UAV-Based RF Transceiver for Detecting Land Fertility	Ghosh S.B., Rao H.P.G., Agrahari H., Yadav R.P., Yadav R.P.	Ghosh, S.B., Thapar Institute of Engineering and Technology, Patiala, India; Rao, H.P.G., Thapar Institute of Engineering and Technology, Patiala, India; Agrahari, H., Thapar Institute of Engineering and Technology, Patiala, India; Yadav, R.P., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7405	Automatic Welding on Horizontal Cylindrical Workpiece Using Programmable Logic Controller (PLC)	Gupta G., Dua G.	Gupta, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Dua, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Smart Innovation, Systems and Technologies	2023	21903018
7406	Fast Image Desmogging for Road Safety Using Optimized Dark Channel Prior	Juneja A., Kumar V., Singla S.K.	Juneja, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Kumar, V., Information Technology, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, India	AI for Big Data-Based Engineering Applications from Security Perspectives	2023	
7407	Properties of ultra-high performance concrete and conventional concrete with coal bottom ash as aggregate replacement and nanoadditives: A review	Ban C.C., Kang S.Y., Siddique R., Tangchirapat W.	Ban, C.C., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Kang, S.Y., School of Housing, Building and Planning, Universiti Sains Malaysia, Penang, 11800, Malaysia; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Tangchirapat, W., Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology, Thonburi, Thailand	Reviews on Advanced Materials Science	2023	16065131
7408	Some p, q -cubic quasi-rung orthopair fuzzy operators for multi-attribute decision-making	Chu Y.-M., Garg H., Rahim M., Amin F., Asiri A., Ameer E.	Chu, Y.-M., School of Mathematics, Hangzhou Normal University, Hangzhou, 311121, China, Department of Mathematics, Huzhou University, Huzhou, 313000, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Rahim, M., Department of Mathematics and Statistics, Hazara University Mansehra, KP, Mansehra, 21300, Pakistan; Amin, F., Department of Mathematics and Statistics, Hazara University Mansehra, KP, Mansehra, 21300, Pakistan; Asiri, A., Department of Mathematics, King Abdulaziz University, PO Box 80203, Jeddah, 21589, Saudi Arabia; Ameer, E., Department of Mathematics, Taiz University, Taiz, Yemen	Complex and Intelligent Systems	2023	21994536
7409	Performance Comparison of Classical and Quantum based NG-PON2 Communication System	Kumar P., Sharma N., Gautam K.	Kumar, P., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Sharma, N., Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, India; Gautam, K., Quantum Research and Center of Excellence, Delhi, India	IEEE Transactions on Consumer Electronics	2023	983063
7410	Analysis of Search Based Algorithms for Prediction of Aging Related Bugs	Bansal A., Khanna M., Dhawan L., Krishnamurthy J.	Bansal, A., Department of Information Technology, Netaji Subhas University of Technology, Dwarka, India; Khanna, M., Department of Computer Science, Sri Guru Gobind Singh College of Commerce, University of Delhi, New Delhi, India; Dhawan, L., Department of Information Technology, Netaji Subhas University of Technology, Dwarka, India; Krishnamurthy, J., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7411	Hilbert curves-based location privacy technique for vehicular cloud networks	Al-Balasmeh H., Singh M., Singh R.	Al-Balasmeh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Bahadson Road, Punjab, Patiala, 147001, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Bahadson Road, Punjab, Patiala, 147001, India; Singh, R., School of Computing, Engineering, and Physical Sciences, University of the West of Scotland, Street, Glasgow, Paisley, G72 0LH, United Kingdom	Cluster Computing	2023	13867857
7412	Development of metasurface based hyperthermia lens applicator for heating of cancerous tissues	Sharma N., Singh H.S., Khanna R., Kaur A., Agarwal M.	Sharma, N., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agarwal, M., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Thapar-VT Center of Excellence in Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Biomedical Engineering Letters	2023	20939868
7413	IoT-Based Women Safety Gadgets (WSG): Vision, Architecture, and Design Trends	Saxena S., Mishra S., Baljon M., Mishra S., Sharma S.K., Goel P., Gupta S., Kishore V.	Saxena, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Mishra, S., Department of Computer Engineering, College of Computer & Information Science, Majmaah University, Majmaah, 11952, Saudi Arabia; Baljon, M., Department of Computer Engineering, College of Computer & Information Science, Majmaah University, Majmaah, 11952, Saudi Arabia; Mishra, S., Department of Computer Science and Engineering, National Institute of Technology, Jamshedpur, 831001, India; Sharma, S.K., Department of Computer Engineering, College of Computer & Information Science, Majmaah University, Majmaah, 11952, Saudi Arabia; Goel, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Gupta, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Kishore, V., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Computers, Materials and Continua	2023	15462218
7414	Multi-level Image Segmentation Using Kapur Entropy Based Dragonfly Algorithm	Biswas S., Bajaj A., Abraham A.	Biswas, S., Jadavpur University, Kolkata, India; Bajaj, A., Thapar Institute of Engineering and Technology, Patiala, India, Machine Intelligence Research Lab, Auburn, United States; Abraham, A., Machine Intelligence Research Lab, Auburn, United States, Center for Artificial Intelligence, Innopolis University, Innopolis, Russian Federation	Lecture Notes in Networks and Systems	2023	23673370
7415	Bilingual Documents Text Lines Extraction Using Conditional GANs	Kaur S., Bawa S., Kumar R., Kumar M.	Kaur, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bawa, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, M., Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, India	Springer Proceedings in Mathematics and Statistics	2023	21941009
7416	Mechanical Properties of Friction Stir Processed B4C/Gr-Reinforced Hybrid Composite Fabricated Through Stir Casting Method	Agrawal A.P., Ali M.A., Rathore S., Singh R.K.R.	Agrawal, A.P., Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, India; Ali, M.A., Department of Industrial Engineering, College of Engineering, Prince Sattam bin Abdulaziz University, Alkharj, 11942, Saudi Arabia; Rathore, S., Department of Mechanical Engineering, KIET Group of Institution, Ghaziabad, India; Singh, R.K.R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, 147001, India	International Journal of Metalcasting	2023	19395981
7417	Early Prediction of Alzheimer's Disease Using Ensemble Learning Models	Singh D., Mishra A.	Singh, D., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Mishra, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Springer Proceedings in Mathematics and Statistics	2023	21941009
7418	Human Activity Recognition using Deep Learning: Past, Present and Future	Saini S., Juneja A., Shrivastava A.	Saini, S., Roorkee Institute of Technology, Electrical Engineering Department, Uttarakhand, Roorkee, India; Juneja, A., Thapar Institute of Engineering and Technology, Electrical and Instrumentation Engineering Department, Punjab, India; Shrivastava, A., Dehradun Institute of Technology University, School of Computing, Uttarakhand, Dehradun, India	2023 1st International Conference on Intelligent Computing and Research Trends, ICRT 2023	2023	
7419	Design and implementation of blockchain-based supply chain framework with improved traceability, privacy, and ownership	Mohit, Kaur S., Singh M.	Mohit, CSED, Thapar Institute of Engineering & Technology, P.O. Box 32, Punjab, Bahadson Road, Patiala, 147004, India; Kaur, S., Eastern Washington University, Cheney, United States; Singh, M., CSED, Thapar Institute of Engineering & Technology, P.O. Box 32, Punjab, Bahadson Road, Patiala, 147004, India	Cluster Computing	2023	13867857

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7420	VMD-Based Ensembled SMOTEBoost for Imbalanced Multi-class Rotor Mass Imbalance Fault Detection and Diagnosis Under Industrial Noise	Rajagopalan S., Singh J., Purohit A.	Rajagopalan, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, J., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Purohit, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Vibration Engineering and Technologies	2023	25233920
7421	Computational Modeling of MAO Inhibitors as Anti-Alzheimer Agents	Kaur G., Goyal D., Goyal B.	Kaur, G., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Goyal, D., Department of Chemistry, DAV College, Sector 10, Chandigarh, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Neuromethods	2023	8932336
7422	Design and analysis of planar four-port UWB-MIMO antenna with band-rejection capability	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India, TIET-VT Center of Excellence for Emerging Materials, Tiet, Patiala, India; Upadhyay, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Microwave and Wireless Technologies	2023	17590787
7423	Preface	Roy S., Chakraborty R.S., Sr., Mathew J., Mazumdar A.P.	Roy, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chakraborty, R.S., Sr., Department of Computer Science and Engineering, IIT Kharagpur, India, IEEE, United States, ACM, United States; Mathew, J., Department in the Computer Science and Engineering, Indian Institute of Technology Patna, India; Mazumdar, A.P., Department of Computer Science and Engineering, Malaviya National Institute of Technology Jaipur, India, School of Computer Science & Engineering, Galgotias University, Greater Noida, India, IEEE, India, IEL, India, Academic Partner of Institute of Engineers, India	Artificial Intelligence and Deep Learning for Computer Network: Management and Analysis	2023	
7424	A Genetic Algorithm Based Dynamic Transmission of Data for Communicable Disease in IoMT Environment	Singh S., Nandan A.S., Sikka G., Malik A., Kumar N.	Singh, S., Department of CSE, National Institute of Technology Jalandhar, Punjab, India; Nandan, A.S., Department of CSE, National Institute of Technology Jalandhar, Punjab, India; Sikka, G., Department of CSE, National Institute of Technology Jalandhar, Punjab, India; Malik, A., Department of CSE, National Institute of Technology Jalandhar, Punjab, India; Kumar, N., Department of CSE, Thapar University, Patiala Punjab, India	IEEE Internet of Things Journal	2023	23274662
7425	Artificial Intelligence and Deep Learning for Computer Network: Management and Analysis	Roy S., Chakraborty R.S., Sr., Mathew J., Mazumdar A.P.	Roy, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chakraborty, R.S., Sr., Department of Computer Science and Engineering, IIT Kharagpur, India, IEEE, United States, ACM, United States; Mathew, J., Department in the Computer Science and Engineering, Indian Institute of Technology Patna, India; Mazumdar, A.P., Department of Computer Science and Engineering, Malaviya National Institute of Technology Jaipur, India, School of Computer Science & Engineering, Galgotias University, Greater Noida, India, IEEE, India, IEL, India, Academic Partner of Institute of Engineers, India	Artificial Intelligence and Deep Learning for Computer Network: Management and Analysis	2023	
7426	Electrochemical Hydrogen Storage Within a Modified Reversible PEM Fuel Cell and Its Performance Analysis with Interdigitated and Spiral Micro Flow Channels	Singh G., Oberoi A.S., Kansal H.K., Singh A.P.	Singh, G., Mechanical Engineering Department, University Institute of Engineering and Technology, Panjab University, Sector 25, South Campus, Chandigarh, 160014, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kansal, H.K., Mechanical Engineering Department, University Institute of Engineering and Technology, Panjab University, Sector 25, South Campus, Chandigarh, 160014, India; Singh, A.P., Mechanical Engineering Department, University Institute of Engineering and Technology, Panjab University, Sector 25, South Campus, Chandigarh, 160014, India	Green Energy and Technology	2023	18653529
7427	Vibration Suppression of Hand Tremor Using Active Vibration Strategy: A Numerical Study	Sharma A., Mallick R.	Sharma, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Mallick, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Electrical Engineering	2023	18761100
7428	Enhanced spatio-temporal 3D CNN for facial expression classification in videos	Khanna D., Jindal N., Rana P.S., Singh H.	Khanna, D., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jindal, N., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, H., Computer Science Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
7429	Texture Classification Using ResNet and EfficientNet	Goyal V., Sharma S., Garg B.	Goyal, V., Indian Institute of Information Technology Pune, Pune, India; Sharma, S., Indian Institute of Information Technology Pune, Pune, India; Garg, B., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Electrical Engineering	2023	18761100
7430	Characteristic Mode Analysis of Fashion Brands Conductive Logos as Potential Radiators	Kumar N., Koohestani M., Khanna R.	Kumar, N., Christ University, Eced, Bengaluru, India; Koohestani, M., Ietr, École Supérieure d'Électronique de l'Ouest, Cnrs 6164, Angers, Paris, France; Khanna, R., Thapar Institute of Engineering and Technology, Punjab, India	2023 IEEE Radio and Antenna Days of the Indian Ocean, RADIO 2023	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7431	Analysis of Depth Sensing and Lane Detection Algorithms for Advanced Driver Assistance Systems	Sarkar S., Khan F.H., Das S., Saha A., Misra D., Mondal S., Sonar S.	Sarkar, S., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Khan, F.H., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Das, S., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Saha, A., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Misra, D., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Mondal, S., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Springer Proceedings in Mathematics and Statistics	2023	21941009
7432	Design and Analysis of Z-Source Inverter with Maximum Constant Boost Control Method	Maiti S., Sonar S., Ashraf S., Mondal S., Das P.	Maiti, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ashraf, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mondal, S., Department of Electrical Engineering, Institute of Engineering and Management, West Bengal, Kolkata, India; Das, P., Department of Electrical Engineering, North Eastern Regional Institute of Science and Technology, Arunachal Pradesh, Nirjuli, India	Springer Proceedings in Mathematics and Statistics	2023	21941009
7433	PugNet: A CNN Architecture to predict the Gender and Age of Blackbuck using Pugmarks	Saini S., Shukla S., Rana P.S., Kohli G., Singh J., Singh G.K.	Saini, S., Lovely Professional University, Department of Forensic Science, Punjab, Phagwara, India; Shukla, S., Lovely Professional University, Department of Forensic Science, Punjab, Phagwara, India; Rana, P.S., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Kohli, G., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, India; Singh, J., Geeta University, Department of Forensic Science, Haryana, Panipat, India; Singh, G.K., Chandigarh University, Department of Forensic Science, Punjab, Mohali, India	2023 International Conference on Advancement in Computation and Computer Technologies, InCACCT 2023	2023	
7434	Evaluating Generative Adversarial Networks for Gurumukhi Handwritten Character Recognition (CR)	Kaur S., Bawa S., Kumar R.	Kaur, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bawa, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Electrical Engineering	2023	18761100
7435	APPROXIMATION OF DRYGAS FUNCTIONAL EQUATION IN QUASI-BANACH SPACE	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Applied Mathematics and Informatics	2023	27341194
7436	Corrosion inhibition in reinforced concrete using silica fume immobilized bacterial cells	Anand K., Goyal S., Reddy M.S.	Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Sustainable Cement-Based Materials	2023	21650373
7437	VTnet+Handcrafted based approach for food cuisines classification	Nijhawan R., Sinha G., Batra A., Kumar M., Sharma H.	Nijhawan, R., Department of Computer Science and Engineering, Thapar University, Punjab, Patiala, India; Sinha, G., Department of Computer science, Jain Deemed to be University, Karnataka, Bangalore, India; Batra, A., Department of Computer science, IIT Guwahati, Assam, Guwahati, India; Kumar, M., School of Computer Science, FEIS, University of Wollongong in Dubai, Dubai Knowledge Park, Dubai, United Arab Emirates, MEU Research Unit, Middle East University, Amman, 11831, Jordan; Sharma, H., Department of Computer science, IIT Guwahati, Assam, Guwahati, India	Multimedia Tools and Applications	2023	13807501
7438	Comparative Analysis of Speech Emotion Recognition Models and Technique	Agrawal A., Jain A., Kaur B., Jangid S., Kadian K., Dwivedi V., Garhwal S.	Agrawal, A., Igdttw, Cse, Delhi, India; Jain, A., Igdttw, Cse, Delhi, India; Kaur, B., Igdttw, Cse, Delhi, India; Jangid, S., Igdttw, Cse, Delhi, India; Kadian, K., Igdttw, Cse, Delhi, India; Dwivedi, V., Queen's University Belfast, United Kingdom, Institute of Computer Science, University of Tartu, Tartu, Estonia; Garhwal, S., Tiet, Cse, Patiala, India	2023 International Conference on Computational Intelligence, Communication Technology and Networking, CICTN 2023	2023	
7439	Self-healing by biocomposite containing metakaolin immobilized bacterial spores in concrete using low-cost corn steep liquor media	Sidhu N., Goyal S., Reddy M.S.	Sidhu, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Sustainable Cement-Based Materials	2023	21650373
7440	A Survey on Fault Tolerant and Diagnostic Techniques of Multilevel Inverter	Gautam S.P., Jalhotra M., Sahu L.K., Kumar M.R., Gupta K.K.	Gautam, S.P., Vellore Institute of Technology, Technology Information, Forecasting and Assessment Council (TIFAC), Tamil Nadu, Vellore, 632014, India; Jalhotra, M., Caterpillar India Pvt. Ltd., Karnataka, Bengaluru, 560048, India; Sahu, L.K., National Institute of Technology, Department of Electrical Engineering, Chhattisgarh, Raipur, 492010, India; Kumar, M.R., Kalinga Institute of Technology, School of Electronics Engineering, Odisha, Bhubaneswar, 751024, India; Gupta, K.K., Thapar Institute of Engineering and Technology, Department of Electrical and Instrumentation Engineering, Punjab, Patiala, 147002, India	IEEE Access	2023	21693536

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7441	ESDNN: A novel ensemble stack deep neural network for mango leaf disease classification and detection	Gautam V., Ranjan R.K., Dahiya P., Kumar A.	Gautam, V., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Ranjan, R.K., CSE Department, Thapar Institute of Engineering & Technology, Patiala, India; Dahiya, P., Data Science Research Group, School of Computing, DIT University, Dehradun, India; Kumar, A., Data Science Research Group, School of Computing, DIT University, Dehradun, India	Multimedia Tools and Applications	2023	13807501
7442	Elucidating facile biosorptive eradication of enrofloxacin: Equilibrium, kinetics, reusability, cost estimation, and safe disposal	Das Sharma D., Show S., Barman S., Halder G.	Das Sharma, D., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, India; Show, S., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, India; Barman, S., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Halder, G., Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur, India	Environmental Progress and Sustainable Energy	2023	19447442
7443	New Modified Voltage Differencing Voltage Transconductance Amplifier (MVDVTA) based Meminductor Emulator and its Applications	Jain H., Aggarwal B., Rai S.K.	Jain, H., Netaji Subhas University of Technology, New Delhi, 110 078, India; Aggarwal, B., Netaji Subhas University of Technology, New Delhi, 110 078, India; Rai, S.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	Indian Journal of Pure and Applied Physics	2023	195596
7444	SHORT TERM LOAD FORECASTING FOR SMART GRIDS USING APACHE SPARK AND A MODIFIED TRANSFORMER MODEL	Upadhyay A., Garg D., Singh M.	Upadhyay, A., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India; Garg, D., Computer Science and Engineering Department, Thapar University, Punjab, Patiala, India; Singh, M., Electrical and Instrumentation Engineering Department, Thapar University, Punjab, Patiala, India	Computing and Informatics	2023	13359150
7445	Effect of CBT on Metacognitive Beliefs in Depressive Disorders	Gupta A., Kumari S.	Gupta, A., Clinical Psychologist, Government Medical College & Hospital (GMCH-32), Department of Psychiatry, Punjab, Chandigarh, India; Kumari, S., Thapar Institute of Engineering & Technology, School of Humanities & Social Sciences, Punjab, Patiala, India	Turk Psikiyatri Dergisi	2023	13002163
7446	LEAF: A Federated Learning-Aware Privacy Preserving Framework for Healthcare Ecosystem	Patel N.P., Parekh R., Amin S.A., Gupta R., Tanwar S., Kumar N., Iqbal R., Sharma R.	Patel, N.P., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Parekh, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Amin, S.A., University of Dubai, Dubai, United Arab Emirates; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Iqbal, R., University of Dubai, Dubai, United Arab Emirates; Sharma, R., Centre for Inter-Disciplinary Research and Innovation, University of Petroleum and Energy Studies, P.O. Bidholi Via-Prem Nagar, Dehradun, India	IEEE Transactions on Network and Service Management	2023	19324537
7447	Investigating the Work Generation Potential of SMA Wire Actuators	Bhatt N., Soni S., Singla A.	Bhatt, N., Institute of Engineering and Technology, Punjab, Patiala, India; Soni, S., Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, India; Singla, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Handbook of Smart Manufacturing: Forecasting the Future of Industry 4.0	2023	
7448	Development of iron-based composite materials through electromagnetic radiations in a domestic microwave oven	Pal J., Gupta D., Singh T.P.	Pal, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, T.P., LMT School of Management, Thapar Institute of Engineering and Technology, Dera Bassi Campus, Punjab, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
7449	Advances of 5G Wireless Communication Systems in Healthcare Informatics	Yadav A., Rashmi, Mukherjee R., Kumar A., Deegwal J.K., Singh G., Vohra H.	Yadav, A., Bennett University, Uttar Pradesh, Greater Noida, India; Rashmi, Jaipur National University, Rajasthan, Jaipur, India; Mukherjee, R., Bennett University, Uttar Pradesh, Greater Noida, India; Kumar, A., Government Women Engineering College, Rajasthan, Ajmer, India; Deegwal, J.K., Government Women Engineering College, Rajasthan, Ajmer, India; Singh, G., Malaviya National Institute of Technology, Rajasthan, Jaipur, India; Vohra, H., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	5G Wireless Communication System in Healthcare Informatics	2023	
7450	Exploring the Determinants of Investment Behavior: Evidence from Agrarian Investor Class of India	Manocha S., Bhullar P.S., Gupta P.K.	Manocha, S., University Business School, Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, India; Bhullar, P.S., University Business School, Maharaja Ranjit Singh Punjab Technical University, Punjab, Bathinda, India; Gupta, P.K., L. M. Thapar School of Management, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India	Business Perspectives and Research	2023	22785337
7451	Influence of tungsten carbide-cobalt reinforcement on flexural behavior of iron-based composite developed through microwave	Pal J., Gupta D., Singh T.P.	Pal, J., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, T.P., LMT School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7452	Understanding digital image anti-forensics: an analytical review	Taneja N., Bramhe V.S., Bhardwaj D., Taneja A.	Taneja, N., Department of Computer Science & Engineering, Sharda School of Engineering & Technology, Sharda University, Uttar Pradesh, Greater Noida, 201310, India; Bramhe, V.S., Department of Computer Science & Engineering, Sharda School of Engineering & Technology, Sharda University, Uttar Pradesh, Greater Noida, 201310, India; Bhardwaj, D., Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Taneja, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, 140401, India	Multimedia Tools and Applications	2023	13807501
7453	Product Life Cycle	Singh H., Kaplas N., Sharma A., Raj S.	Singh, H., School of Management Studies, Punjabi University, Punjab, Patiala, India; Kaplas, N., School of Humanities and Social Sciences, Thapar Institute of Engineering, Technology (Deemed-to-be-University), Punjab, Patiala, India; Sharma, A., Punjab, Patiala, India; Raj, S., School of Management Studies, Punjabi University, Punjab, Patiala, India	Factories of the Future: Technological Advancements in the Manufacturing Industry	2023	
7454	TI-16 DNS Labeled Dataset for Detecting Botnets	Singh M., Singh M., Kaur S.	Singh, M., Bgsbu, Department of Information Technology and Engineering, Rajouri, 185234, India; Singh, M., Thapar Institute of Engineering and Technology (TIET), Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Kaur, S., Eastern Washington University, Department of Computer Science, Spokane, WA 99202, United States	IEEE Access	2023	21693536
7455	Mehar Method-IV to Find All More-For-Less Solutions of Symmetric Intuitionistic Fuzzy Linear Fractional Transportation Problems with Mixed Constraints	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Manitoba, MB, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7456	Introduction	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Manitoba, MB, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7457	Mehar Method-II to Find All More-For-Less Solutions of Symmetric Fuzzy Transportation Problems with Mixed Constraints	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Manitoba, MB, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7458	Mehar Method-I to Find All More-For-Less Solutions of Symmetric Fuzzy Balanced Transportation Problems	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Manitoba, MB, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7459	Impact of Technology Scaling in DSM Region on Performance of Intercalation-doped MLG NR as VLSI Interconnects	Kaur T., Rai M.K., Khanna R.	Kaur, T., Chitkara University Institute of Engineering and Technology, Chitkara University, Department of Interdisciplinary Courses in Engineering, Rajpura, India; Rai, M.K., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, India; Khanna, R., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering, Patiala, India	2nd Edition of IEEE Delhi Section Owned Conference, DELCON 2023 - Proceedings	2023	
7460	Mehar Method-III to Find All More-For-Less Solutions of Symmetric Intuitionistic Fuzzy Transportation Problems with Mixed Constraints	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Manitoba, MB, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7461	Some Open Research Problems	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Manitoba, MB, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7462	The nonlinear relationship between poverty and financial globalisation: A panel quantile regression approach	Singh S.K., Sharma P., Sharma S.	Singh, S.K., Department of Economics and Finance, BITS Pilani, Hyderabad, India; Sharma, P., Indian Institute of Management, Udaipur, India; Sharma, S., LM Thapar School of Management, Chandigarh, India	World Economy	2023	3785920
7463	Investigating the vision-based intervertebral motion estimation of the Cadaver's craniovertebral junction	Zubair M., Kansal S., Mukherjee S.	Zubair, M., Mechanical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India; Kansal, S., Computer Science Engineering Department, Thapar Institute of Engineering Technology, Punjab, Patiala, India; Mukherjee, S., Mechanical Engineering Department, Indian Institute of Technology Delhi, New Delhi, India	Robotica	2023	2635747

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7464	Interaction hamy mean operators for complex pythagorean fuzzy information and their applications to security threats in computers	Garg H., Kahraman C., Ali Z., Mahmood T.	Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, Department of Mathematics, Graphic Era Deemed to Be University, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, Jordan; Kahraman, C., Istanbul Technical University, Industrial Engineering Department, Macka, Istanbul, Turkey; Ali, Z., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan; Mahmood, T., Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan	Journal of Intelligent and Fuzzy Systems	2023	10641246
7465	Role of Online Shopping Websites in Consumer Satisfaction Based Statistical Analysis	Mittal M., Singh H., Chauhan S., Gupta S.	Mittal, M., Knowtion GmbH, Karlsruhe, Germany; Singh, H., Guru Nanak Dev University (Of Affiliation), Dept. of Computer Engineering & Technology, Amritsar, India; Chauhan, S., Prestige Institute of Management, Gwalior, India; Gupta, S., Thapar Institute of Engineering and Technology, Deptt. of Comp. Sci. and Engg., Patiala, India	Proceedings - 2023 12th IEEE International Conference on Communication Systems and Network Technologies, CSNT 2023	2023	
7466	Investment decision making in the fuzzy context: An integrated model approach	Zhang S., Liu X., Garg H., Zhang S.	Zhang, S., School of Mathematics and Physics, Anhui University of Technology, Anhui, Ma'anshan, China; Liu, X., School of Mathematics and Physics, Anhui University of Technology, Anhui, Ma'anshan, China; Garg, H., School of Mathematics, Thapar Institute of Engineering Technology (Deemed University), Punjab, Patiala, India, Department of Mathematics, Graphics Era Deemed to Be University, Uttarakhand, Dehradun, India, Applied Science Research Center, Applied Science Private University, Amman, Jordan; Zhang, S., School of Mathematics and Physics, Anhui University of Technology, Anhui, Ma'anshan, China	Journal of Intelligent and Fuzzy Systems	2023	10641246
7467	Sustainable development goals for gender equality: Extracting associations among the indicators of SDG 5 using numerical association rule mining	Saini M., Adebayo S.O., Singh H., Singh H., Sharma S.	Saini, M., Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Adebayo, S.O., Department of Computer Engineering, King Fahd University of Petroleum and Minerals, Saudi Arabia; Singh, H., Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Singh, H., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, India; Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Patiala, India	Journal of Intelligent and Fuzzy Systems	2023	10641246
7468	Ferrite Nanoparticles for Water Decontamination Applications	Gupta A., Choudhary R.	Gupta, A., Department of Mechanical Engineering, GLA University, Mathura, 281406, India; Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Horizons: From Nature to Nanomaterials	2023	25245384
7469	Genomic Characterization of Emerging SARS-CoV-2: A Systematic Review	Sharma S., Rani R., Kalra N.	Sharma, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Current Bioinformatics	2023	15748936
7470	Modelling and experimental validation for thrust force and heat generation during bone drilling	Singh G., Jindal R., Jain V., Gupta D., Babbar A., Gupta P.K.	Singh, G., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Jindal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India; Babbar, A., Department of Mechanical Engineering, SGT University, Haryana, Gurugram, 122505, India; Gupta, P.K., Department of Pharmacy, Amity Institute of Pharmacy, Gwalior, India	International Journal on Interactive Design and Manufacturing	2023	19552513
7471	Hetero Cyclic Compounds in the Treatment of Triple-Negative Breast Cancer	Mandal S.K., Das A., Bose A., Dwibedi V., Ganguly P., Sarkar S., Prakash R., Dey B.K., Mandal S., Rath S.K.	Mandal, S.K., Department of Pharmaceutical Chemistry, Dr. B. C. Roy College of Pharmacy and A.H.S, West Bengal, Durgapur, 713206, India; Das, A., Department of Pharmaceutical Science, Central University of Punjab, Punjab, Bathinda, 151001, India; Bose, A., School of Pharmaceutical Sciences, Siksha O Anusandhan University, K8 Kalinga Nagar, Bhubaneswar, India; Dwibedi, V., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, 140413, India; Ganguly, P., Pandaveswar School of Pharmacy, Pandaveswar, West Bengal, India; Sarkar, S., Department of Pharmaceutical Technology, Brainware University, 398-Ramkrishnapur, Road, Barasat, West Bengal, Kolkata, 700125, India; Prakash, R., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, G-Block, Punjab, Patiala, 147004, India; Dey, B.K., Faculty of Pharmaceutical Science, Assam Down Town University, Assam, Panikhaiti, Guwahati, India; Mandal, S., Global College of Pharmaceutical Technology, Nadia, WestBengal, Krishnanagar, India; Rath, S.K., School of Pharmaceuticals and Population Health Informatics, Faculty of Pharmacy, DIT University, Uttarakhand, Dehradun, 248009, India	Current Cancer Therapy Reviews	2023	15733947
7472	A Comparative Analysis of Different Basis Functions for Constructing Bézier Curves	Kaur H., Goyal M.R.	Kaur, H., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Goyal, M.R., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes in Networks and Systems	2023	23673370
7473	Recent Trends in Artificial Intelligence-Inspired Electronic Thermal management—A Review	Chharia A., Mehta N., Gupta S., Prajapati S.	Chharia, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mehta, N., Department of Mechanical Engineering, Sardar Vallabhbhai National Institute of Technology, Gujarat, Surat, India; Gupta, S., Department of Mechanical Engineering, Indian Institute of Technology (ISM), Dhanbad, India; Prajapati, S., Department of Mechanical Engineering, National Institute of Technology, Agartala, India	Lecture Notes in Mechanical Engineering	2023	21954356

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7474	Simulation Study of a Miniaturized UWB Antenna loaded with FSS Reflector for Breast Tumor Detection	Grover P., Singh H.S., Sahu S.K.	Grover, P., School of Electrical and Electronics Engineering, Lovely Professional University, Punjab, Jalandhar, 144 411, India; Singh, H.S., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147 004, India, TIET- Vt Center of Excellence in Emerging Materials, Tiet, Punjab, Patiala, India; Sahu, S.K., School of Electrical and Electronics Engineering, Lovely Professional University, Punjab, Jalandhar, 144 411, India	2023 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2023	2023	
7475	Experimental Result Analysis of Extreme Learning Machine with Various Activation Functions: An Application in Credit Scoring	Tripathi D., Reddy Y.C.A.P., Tripathi S.K., Ramachandra Reddy B., Dewangan R.K.	Tripathi, D., Indian Institute of Information Technology Sonapat, Haryana, Sonapat, India; Reddy, Y.C.A.P., B V Raju Institute of Technology, Telangana, Medak, India; Tripathi, S.K., Government PG College Satna, Madhya Pradesh, Satna, India; Ramachandra Reddy, B., National Institute of Technology Jamshedpur, Jharkhand, Jamshedpur, India; Dewangan, R.K., Department of ECED, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Electrical Engineering	2023	18761100
7476	Design and Evaluation of multipliers for hardware accelerated on-chip EdDSA	Gupta H., Kabra M., Patwari N.D., Prashanth H.C., Rao M.	Gupta, H., Thapar University, Punjab, India; Kabra, M., International Institute of Information Technology Bangalore, Bangalore, India; Patwari, N.D., IIT Bangalore, Bangalore, India; Prashanth, H.C., IIT Bangalore, Bangalore, India; Rao, M., IIT Bangalore, Bangalore, India	Proceedings - International Symposium on Quality Electronic Design, ISQED	2023	19483287
7477	A Review: The Study and Analysis of Neural Style Transfer in Image	Bagwari S., Choudhary K., Raikwar S., Rana P.S., Mighlani S.	Bagwari, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Choudhary, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Raikwar, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Rana, P.S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mighlani, S., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7478	Attribute-based access control scheme for secure storage and sharing of EHRs using blockchain and IPFS	Kaur J., Rani R., Kalra N.	Kaur, J., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rani, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Cluster Computing	2023	13867857
7479	Empirical Analysis of Unsupervised Link Prediction Algorithms in Weighted Networks	Kumar A., Singh S.S., Mishra S.	Kumar, A., UPES, Dehradun, India; Singh, S.S., Thapar University, Punjab, Patiala, India; Mishra, S., IIT BHU Varanasi, Varanasi, India	Lecture Notes in Networks and Systems	2023	23673370
7480	A nomadic multi-agent based privacy metrics for e-health care: a deep learning approach	Dhasarathan C., Shanmugam M., Kumar M., Tripathi D., Khapre S., Shankar A.	Dhasarathan, C., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shanmugam, M., Department of Computer Science, School of Engineering and Technology, Pondicherry University, Puducherry, India; Kumar, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Tripathi, D., Computer Science and Engineering Department, Indian Institute of Information Technology, Hariyana, Sonapat, India; Khapre, S., Department of Data Science & Artificial Intelligence, Dr. S. P. Mukherjee IIT, Chhattisgarh, Naya Raipur, India; Shankar, A., WMG, University of Warwick, Coventry, United Kingdom, Department of Computer Science and Engineering, Graphic Era Deemed to be University, Dehradun, 248002, India, School of Computer Science Engineering, Lovely Professional University, Punjab, Phagwara, 144411, India	Multimedia Tools and Applications	2023	13807501
7481	MODIFIED CONVERSE DUALITY FOR MULTIOBJECTIVE HIGHER ORDER WOLFE TYPE DUAL PROGRAM WITH CONE CONSTRAINTS	Sethi S., Kailey N., Saini S.	Sethi, S., SOM, Thapar Institute of Engineering and Technology, Patiala, India; Kailey, N., SOM, Thapar Institute of Engineering and Technology, Patiala, India; Saini, S., SOM, Thapar Institute of Engineering and Technology, Patiala, India	Yugoslav Journal of Operations Research	2023	3540243
7482	Connected ϵ -Chainable Sets and Existence Results	Bhandari S.K., Chandok S., Jana B., Das R.B.	Bhandari, S.K., Department of Mathematics, Bajkul Milani Mahavidyalaya, Kismat Bajkul, West Bengal, Purba Medinipur, 721655, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jana, B., West Bengal, Purba Medinipur, 721652, India; Das, R.B., Barkhali High School, Barkhali, Amira, South 24 Parganas, Diamond Harbour, 743368, India	International Journal of Mathematics and Mathematical Sciences	2023	1611712
7483	Desmogging of still images using residual regression network and morphological erosion	Juneja A., Kumar V., Singla S.K.	Juneja, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, V., Department of Information Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India; Singla, S.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Multimedia Tools and Applications	2023	13807501

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7484	A Novel First-Order Fuzzy Rules-Based Forecasting System Using Distance Measures Approach for Financial Market Forecasting	Hassan S.G., Kieuvan T.T., Liu S., Garg H., Hassan M., Iqbal S.	Hassan, S.G., College of Information Science and Technology, Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China; Kieuvan, T.T., Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China; Liu, S., College of Information Science and Technology, Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Hassan, M., School of Economics and Management, Jilin Agriculture University, Changchun, 130033, China; Iqbal, S., School of Economics and Statistics, Guangzhou University, Guangzhou, 510006, China	Journal of Mathematics	2023	23144629
7485	ANSWERS TO GEORGE-RADENOVIC-RESHMA-SHUKLA QUESTIONS IN RECTANGULAR b-METRIC SPACES	Dung N.V., Hang V.T.L., Chandok S.	Dung, N.V., Dong Thap University, Faculty of Mathematics - Informatics Teacher Education, Dong Thap University, Dong Thap Province, Cao Lanh City, Viet Nam; Hang, V.T.L., Dong Thap University, Journal of Science, Dong Thap University, Dong Thap Province, Cao Lanh City, Viet Nam; Chandok, S., Thapar Institute of Engineering and Technology, School of Mathematics, Patiala, 147004, India	Miskolc Mathematical Notes	2023	17872405
7486	Enhanced cocatalysis of bimetallic nanostructures for catalytic and photocatalytic applications	Bathla A., Pal B.	Bathla, A., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Pal, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Applications of Multifunctional Nanomaterials	2023	
7487	Cognitive Impairment in Parasitic Protozoan Infection	Chakroborty N.K., Baksi S., Bhattacharya A.	Chakroborty, N.K., Thapar School of Liberal Arts and Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Baksi, S., School of Life Science and Biotechnology, Adamas University, Kolkata, India; Bhattacharya, A., School of Life Science and Biotechnology, Adamas University, Kolkata, India	Pathobiology of Parasitic Protozoa: Dynamics and Dimensions	2023	
7488	Arguably at SemEval-2023 Task 11: Learning the disagreements using unsupervised behavioral clustering and language models	Kohli G., Tiwari V.	Kohli, G., Thapar University, India; Tiwari, V., Netaji Subhas University of Technology, India	17th International Workshop on Semantic Evaluation, SemEval 2023 - Proceedings of the Workshop	2023	
7489	Multiple forgery detection in digital video with VGG-16-based deep neural network and KPCA	Shelke N.A., Kasana S.S.	Shelke, N.A., Computer Science and Engineering, Bennett University (Times of India Group), UP, Greater Noida, 201310, India; Kasana, S.S., Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Multimedia Tools and Applications	2023	13807501
7490	Performance of waste foundry sand concrete in sulfate environment	Singh J., Siddique R.	Singh, J., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Siddique, R., Thapar Institute of Engineering & Technology (Deemed to be University), Patiala, India	Magazine of Civil Engineering	2023	27128172
7491	IBPC: An Approach for Mitigation of Cache Pollution Attack in NDN using Interface-Based Popularity	Kumar N., Srivastava S.	Kumar, N., CSE Department, Thapar Institute of Engineering and Technology, Bhadson Rd, Adarsh Nagar, Punjab, Patiala, 147004, India; Srivastava, S., CSE Department, Motilal Nehru National Institute of Technology Allahabad, Teliarganj, Uttar Pradesh, Prayagraj, 211002, India	Arabian Journal for Science and Engineering	2023	2193567X
7492	On the autoconjugate probability of finite groups	Kalra H., Goyal A., Gumber D.	Kalra, H., Department of Mathematics, Guru Jambheshwar University of Science and Technology, Hisar, India; Goyal, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Gumber, D., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Communications in Algebra	2023	927872
7493	Automated Neural Network-based Survival Prediction of Glioblastoma Patients Using Pre-operative MRI and Clinical Data	Kaur G., Rana P.S., Arora V.	Kaur, G., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Rana, P.S., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India; Arora, V., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology Patiala, Punjab, India	IETE Journal of Research	2023	3772063
7494	Artificial intelligence enabled COVID-19 detection: techniques, challenges and use cases	Panjeta M., Reddy A., Shah R., Shah J.	Panjeta, M., Department of Computer Science and Engineering, Thapar Institute of Engineering Technology, Punjab 147004, India; Reddy, A., Computer Science Department, NMIMS University, Mumbai, India; Shah, R., Computer Science Department, NMIMS University, Mumbai, India; Shah, J., Computer Science Department, NMIMS University, Mumbai, India	Multimedia Tools and Applications	2023	13807501
7495	Autonomic edge cloud assisted framework for heart disease prediction using RF-LRG algorithm	Kumar M., Rai A., Surbhit, Kumar N.	Kumar, M., Department of Information Technology, Dr B R Ambedkar NIT, Jalandhar, India; Rai, A., Department of Information Technology, Dr B R Ambedkar NIT, Jalandhar, India, Department of Computer Science and Engineering, Dr B R Ambedkar NIT, Jalandhar, India; Surbhit, Department of Information Technology, Dr B R Ambedkar NIT, Jalandhar, India, Department of Computer Science and Engineering, Dr B R Ambedkar NIT, Jalandhar, India; Kumar, N., Department of Computer Science & Engineering, TIET, Patiala, India	Multimedia Tools and Applications	2023	13807501
7496	Design of an optimal tracking controller with unmeasured states for electro-hydraulic actuation system using 4/3 proportional DC valve	Kumawat A.K., Rout R., Kumawat R., Rawat M.	Kumawat, A.K., Department of Mechatronics Engineering, Manipal University Jaipur, Rajasthan 303007, India; Rout, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab 147004, India; Kumawat, R., Department of Computer and Communication Engineering, Manipal University Jaipur, Rajasthan 303007, India; Rawat, M., Department of Mechatronics Engineering, Manipal University Jaipur, Rajasthan 303007, India	International Journal of Automation and Control	2023	17407516

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7497	Strength and permeation characteristics of pervious concrete subjected to accelerated carbonation curing	Sidhu G.S., Guleria H., Sharma D., Goyal S.	Sidhu, G.S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Guleria, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, D., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Sustainable Cement-Based Materials	2023	21650373
7498	Energy-Aware Positioning Service Provisioning for Cloud-Edge-Vehicle Collaborative Network Based on DRL and Service Function Chain	Zhang P., Zhang Y., Kumar N., Guizani M., Barnawi A., Zhang W.	Zhang, P., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Zhang, Y., College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Guizani, M., Machine Learning Department, Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, UAE; Barnawi, A., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Zhang, W., Shandong Provincial Key Laboratory of Computer Networks, Shandong Computer Science Center (National Supercomputer Center in Ji'nan), Qilu University of Technology (Shandong Academy of Sciences), Ji'nan, China	IEEE Transactions on Mobile Computing	2023	15361233
7499	VIKOR and TOPSIS framework with a truthful-distance measure for the (t, s)-regulated interval-valued neutrosophic soft set	Quek S.G., Garg H., Selvachandran G., Palanikumar M., Arulmozhi K., Smarandache F.	Quek, S.G., Institute of Actuarial Science and Data Analytics, UCSI University, Jalan Menara Gading, Cheras, Kuala Lumpur, 56000, Malaysia; Garg, H., Department of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehra Dun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Selvachandran, G., Institute of Actuarial Science and Data Analytics, UCSI University, Jalan Menara Gading, Cheras, Kuala Lumpur, 56000, Malaysia, Symbiosis Institute of Technology Symbiosis International University, Pune, 412115, India; Palanikumar, M., Department of Mathematics, Saveetha School of Engineering, SIMATS, Chennai, 602105, India; Arulmozhi, K., Department of Mathematics, Bharath Institute of Higher Education and Research (Deemed University), Chennai, 600073, India; Smarandache, F., Department of Mathematics, University of New Mexico, 705 Gurley Avenue, Gallup, NM 87301, United States	Soft Computing	2023	14327643
7500	Vices, Virtues, and Dispositions	Azzano L., Raimondi A.	Azzano, L., University of Santiago de Compostela, Spain; Raimondi, A., Thapar Institute of Engineering and Technology, India	Theologica	2023	25930265
7501	An Overview Towards the Design and Control of Standalone and Grid Connected Hybrid Energy Systems and its Performance Assessment	Roy A.K., Biswal G.R., Basak P.	Roy, A.K., Jss Academy of Technical Education, Noida, Electrical Engineering Department, Uttar Pradesh, Noida, India; Biswal, G.R., Veer Surendra Sai University of Technology, Burla, Department of Electrical and Electronics Engineering, Odisha, Burla, India; Basak, P., Thapar Institute of Engineering and Technology, Patiala, Electrical and Instrumentation Engineering Department, Punjab, Patiala, India	Proceedings of the 9th International Conference on Electrical Energy Systems, ICEES 2023	2023	
7502	Growth of Cyber-crimes in Society 4.0	Sharma V., Manocha T., Garg S., Sharma S., Garg A., Sharma R.	Sharma, V., Amity University, Noida, India; Manocha, T., Imm, New Delhi, India; Garg, S., Amity University, Noida, India; Sharma, S., Thapar University, Patiala, India; Garg, A., Delhi Technological University, Delhi, India; Sharma, R., Torrens University, Australia	Proceedings of 2023 3rd International Conference on Innovative Practices in Technology and Management, ICIPTM 2023	2023	
7503	Medical robotic engineering selection based on square root neutrosophic normal interval-valued sets and their aggregated operators	Palanikumar M., Kausar N., Garg H., lampan A., Kadry S., Sharaf M.	Palanikumar, M., Department of Mathematics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India; Kausar, N., Department of Mathematics, Faculty of Arts and Science, Yildiz Technical University, Esenler, Istanbul, 34220, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; lampan, A., Fuzzy Algebras and Decision-Making Problems Research Unit, Department of Mathematics, School of Science, University of Phayao, 19 Moo 2, Tambon Mae Ka, Amphur Mueang, Phayao, 56000, Thailand; Kadry, S., Research Center (AIRC), Ajman University, Ajman, 346, United Arab Emirates, Department of Applied Data Science, Noroff University College, Kristinasand, Norway; Sharaf, M., Industrial Engineering Department, College of Engineering, King Saud University, P.O. Box 800, Riyadh, 11421, Saudi Arabia	AIMS Mathematics	2023	24736988
7504	Simulator selection based on complex probabilistic hesitant fuzzy soft structure using multi-parameters group decision-making	Ashraf S., Garg H., Kousar M., Askar S., Abbas S.	Ashraf, S., Institute of Mathematics, Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, 64200, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Patiala, Punjab, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Kousar, M., Institute of Mathematics, Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, 64200, Pakistan; Askar, S., Department of Statistics and Operations Research, College of Science, King Saud University, P.O. Box 2455, Riyadh, 11451, Saudi Arabia; Abbas, S., Faculty of Engineering and Information Sciences, University of Wollongong, Wollongong, Australia	AIMS Mathematics	2023	24736988

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7505	Accel-Alsina-based aggregation operators for intuitionistic hesitant fuzzy set environment and their application to multiple attribute decision-making process	Ali W., Shaheen T., Haq I.U., Toor H., Akram F., Garg H., Uddin M.Z., Hassan M.M.	Ali, W., Department of Mathematics, Air University, E-9, Islamabad, Pakistan; Shaheen, T., Department of Mathematics, Air University, E-9, Islamabad, Pakistan; Haq, I.U., Department of Mathematics, Air University, E-9, Islamabad, Pakistan; Toor, H., Biomedical Engineering Department, Riphah International University, Islamabad, Pakistan; Akram, F., Biomedical Engineering Department, Riphah International University, Islamabad, Pakistan; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India; Uddin, M.Z., Software and Service Innovation, SINTEF Digital, Oslo, 0373, Norway; Hassan, M.M., Information Systems Department, College of Computer and Information Sciences, King Saud University, Riyadh, 11543, Saudi Arabia	AIMS Mathematics	2023	24736988
7506	Amalgamating Vehicular Networks With Vehicular Clouds, AI, and Big Data for Next-Generation ITS Services	Rajput N.S., Singh U., Dua A., Kumar N., Rodrigues J.J.P.C., Sisodia S., Elhoseny M., Lakys Y.	Rajput, N.S., Department of Information and Communication Technology, School of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India; Singh, U., Department of Information and Communication Technology, School of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India; Dua, A., Birla Institute of Technology and Science, Pilani, Rajasthan, India; Kumar, N., Thapar Institute of Engineering and Technology, Patiala, India; Rodrigues, J.J.P.C., CSED, Federal University of Piauí (UFPI), Piau, Brazil; Sisodia, S., Indian Institute of Information Technology, Vadodara, India; Elhoseny, M., College of Computing and Informatics, University of Sharjah, United Arab Emirates; Lakys, Y., College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait	IEEE Transactions on Intelligent Transportation Systems	2023	15249050
7507	A Hybrid Feature Selection Method Using an Improved Binary Butterfly Optimization Algorithm and Adaptive β -Hill Climbing	Tiwari A.	Tiwari, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	IEEE Access	2023	21693536
7508	Semiconducting CdS quantum dots as a guest in a four ring bent-core nematic medium: modified dielectric and elastic properties	Khan R.K., Mohapatra S., Ghosh S.	Khan, R.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mohapatra, S., Department of Physics, NIT Rourkela, Odisha, Rourkela, India; Ghosh, S., Department of Physics, University of Calcutta, Kolkata, India	Molecular Crystals and Liquid Crystals	2023	15421406
7509	Beamforming in Vehicle to Infrastructure Scenario with Respect to LSTM and NAR Method	Bhadoria P., Kumar R., Sharma S.	Bhadoria, P., Department of Electronic and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Department of Electronic and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Electronic and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Electrical Engineering and Technology	2023	19750102
7510	Computational identification of a multi-peptide vaccine candidate in E2 glycoprotein against diverse Hepatitis C virus genotypes	Kumari S., Kessel A., Singhal D., Kaur G., Bern D., Lemay-St-Denis C., Singh J., Jain S.	Kumari, S., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, India; Kessel, A., Department of Biochemistry and Molecular Biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel; Singhal, D., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, India; Kaur, G., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bern, D., Department of Biochemistry and Molecular Biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel; Lemay-St-Denis, C., Department of Biochemistry and Molecular Medicine, Université de Montréal, Montréal, QC, Canada, PROTEO, The Québec Network for Research on Protein, Function, Engineering and Applications, Québec, QC, Canada, CGCC, Center in Green Chemistry and Catalysis, Montréal, QC, Canada; Singh, J., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, India; Jain, S., University Institute of Biotechnology, Chandigarh University, Punjab, Mohali, India, Department of Biochemistry and Molecular Biology, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel	Journal of Biomolecular Structure and Dynamics	2023	7391102
7511	Performance improvement of solar still by using float wicks in different proportion of covered area	Kumar Singh S., Jain S., Mittal M.K., Sharma D.	Kumar Singh, S., Mechanical Engineering Department, National Institute of Technology Hamirpur, Hamirpur, India; Jain, S., Department of Energy Science and Engineering, Indian Institute of Technology Delhi, New Delhi, India; Mittal, M.K., Mechanical Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, D., Mechanical Engineering Department, National Institute of Technology Hamirpur, Hamirpur, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2023	15567036
7512	LoRaWAN Gateway Architecture for Aquaculture Monitoring in Rural Area	Singh D., Sharma G., Minhas I., Singh G., Mahajan P., Verma P., Manocha G.C.	Singh, D., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Sharma, G., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Minhas, I., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Singh, G., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Mahajan, P., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Verma, P., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India; Manocha, G.C., Thapar Institute of Engineering and Technology, Electronics and Communication Engineering Department, Punjab, Patiala, India	2023 6th International Conference on Information Systems and Computer Networks, ISCON 2023	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7513	Image encryption using XOR-based continuous tone MSS and Cellular Automata	Akanksha, Garg H., Shivani S.	Akanksha, GLA University, Dept. of Computer Engineering and Applications, Mathura, India; Garg, H., GLA University, Dept. of Computer Engineering and Applications, Mathura, India; Shivani, S., Thapar Institute of Engineering and Technology, Dept. of Computer Science, Patiala, India	2023 6th International Conference on Information Systems and Computer Networks, ISCON 2023	2023	
7514	Study of the Wear Behavior of Dual Solid Lubricant-Induced Ilmenite-Reinforced Hypereutectic Al-Si Alloy Composites	Gupta A., Singhal V., Pandey O.P.	Gupta, A., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singhal, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Mechanical Engineering Department, IMS Engineering College, Uttar Pradesh, Dasna, Ghaziabad, 201015, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Materials Engineering and Performance	2023	10599495
7515	Monitoring Pollination by Honeybee Using Computer Vision	Kujur V., Bedi A.K., Saini M.	Kujur, V., Indian Institute of Technology Ropar, Rupnagar, India; Bedi, A.K., Thapar Institute of Engineering and Technology, Patiala, India; Saini, M., Indian Institute of Technology Ropar, Rupnagar, India	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2023	3029743
7516	Smart Distributed Embedded Systems for Healthcare Applications	Nagrath P., Alzubi J.A., Singla B., Rodrigues J.J.P.C., Verma A.K.	Nagrath, P., Bharati Vidyapeeth's College of Engineering, ISTE, India; Alzubi, J.A., Al-Balqa Applied University, School of Engineering, Jordan; Singla, B., Computer Science and Engineering Department, PIET College of Engineering and Technology, Panipat, Samalkha, India; Rodrigues, J.J.P.C., College of Computer Science and Technology, China University of Petroleum, Qingdao, China, Instituto de Telecomunicações, Portugal; Verma, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Smart Distributed Embedded Systems for Healthcare Applications	2023	
7517	Radiation Curing of Fiber Reinforced Polymer Composite Based Mechanical Joints	Kumar M., Saini J.S., Bhunia H.	Kumar, M., Mechanical Engineering Department, Chandigarh University, Punjab, Mohali, 140413, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhunia, H., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Horizons: From Nature to Nanomaterials	2023	25245384
7518	Simulation Study of a Compact UWB Antenna for Detection of Breast Tumors using Microwave Imaging Technique	Grover P., Singh H.S., Kumar Sahu S.	Grover, P., Lovely Professional University, School of Electrical and Electronics Engineering, Punjab, Jalandhar, 144 411, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India, TIET-VT Center of Excellence in Emerging Materials, Tiet, Punjab, Patiala, India; Kumar Sahu, S., Lovely Professional University, School of Electrical and Electronics Engineering, Punjab, Jalandhar, 144 411, India	Proceedings - IEEE International Conference on Device Intelligence, Computing and Communication Technologies, DICCT 2023	2023	
7519	An empirical investigation of the influence of leadership styles and strategic decision-making on business performance: a generational ownership perspective	Goyal L., Kiran R., Bose S.C.	Goyal, L., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bose, S.C., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Current Psychology	2023	10461310
7520	Intuitionistic fuzzy-based TOPSIS method for multi-criterion optimization problem: a novel compromise methodology	Qin Y., Rizk-Allah R.M., Garg H., Hassanien A.E., Snášel V.	Qin, Y., School of Mathematics and Information Sciences, Numerical Simulation Key Laboratory of Sichuan Provincial Universities, Neijiang Normal University, Sichuan, Neijiang, 641000, China; Rizk-Allah, R.M., Department of Basic Engineering Science, Faculty of Engineering, Menoufia University, Shebin El-Kom, 32511, Egypt, Faculty of Electrical Engineering and Computer Science, VŠB-Technical University of Ostrava, Poruba, Ostrava, 70800, Czech Republic; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq; Hassanien, A.E., Faculty of Computers and AI, Cairo University, Egypt; Snášel, V., Faculty of Electrical Engineering and Computer Science, VŠB-Technical University of Ostrava, Poruba, Ostrava, 70800, Czech Republic	AIMS Mathematics	2023	24736988
7521	Robot sensors process based on generalized Fermatean normal different aggregation operators framework	Palanikumar M., Kausar N., Garg H., Ahmed S.F., Samaniego C.	Palanikumar, M., Department of Mathematics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, 602105, India; Kausar, N., Department of Mathematics, Faculty of Arts and Science, Yildiz Technical University, Esenler, Istanbul, 34220, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphics Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Ahmed, S.F., Science and Math Program, Asian University for Women, Chattogram, Bangladesh; Samaniego, C., American University of the Middle East, College of Business Administration, Egaila54200, Kuwait	AIMS Mathematics	2023	24736988

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7522	Mechanical and wear characteristics of spark plasma sintered titanium/multilayer graphene nanocomposites	Sharma D., Kumar V., Singh S.	Sharma, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
7523	Identification of Cardiovascular Disease using Machine Learning and Ensemble Learning	Chopra S., Kalra N., Rani R.	Chopra, S., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Kalra, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India; Rani, R., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Patiala, India	International Conference on Innovative Data Communication Technologies and Application, ICIDCA 2023 - Proceedings	2023	
7524	Performance analysis of multilevel dual polarization OCDMA based modulation using different codes in MDM-OWC system	Kaur R., Kaler R.S.	Kaur, R., Optical Fiber Communication Lab, TIET, Patiala, India; Kaler, R.S., Optical Fiber Communication Lab, TIET, Patiala, India	Optoelectronics and Advanced Materials, Rapid Communications	2023	18426573
7525	Digital exclusion of women: a systematic review	Gupta M., Kiran R.	Gupta, M., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, India	Global Knowledge, Memory and Communication	2023	25149342
7526	Carrier suppressed parametric pump for Flat Gain Raman Parametric Cascade amplifier in Dense Wave Multiplexed systems	Kaur G.	Kaur, G., Department of Electronics & Communication Engg, TIET (Deemed University), Patiala, India	Optoelectronics and Advanced Materials, Rapid Communications	2023	18426573
7527	User privacy prevention model using supervised federated learning-based block chain approach for internet of Medical Things	Dhasarathan C., Hasan M.K., Islam S., Abdullah S., Khapre S., Singh D., Alsulami A.A., Alqahtani A.	Dhasarathan, C., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Hasan, M.K., Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Bangi, Malaysia, North Garth Institute of Bangladesh, Dhaka, Bangladesh; Islam, S., Institute of Computer Science and Digital Innovation, UCSI University, Kuala Lumpur, Malaysia; Abdullah, S., Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Bangi, Malaysia; Khapre, S., Department of Data Science and Artificial Intelligence, Dr. S. P. Mukherjee International Institute of Information Technology, Naya Raipur, India; Singh, D., Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Bangi, Malaysia; Alsulami, A.A., Department of Information Systems, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Alqahtani, A., Department of Networks and Communications Engineering, College of Computer Science and Information Systems, Najran University, Najran, Saudi Arabia	CAAI Transactions on Intelligence Technology	2023	24686557
7528	Stability switches, periodic oscillations and global stability in an infectious disease model with multiple time delays	Kumar A., Takeuchi Y., Srivastava P.K.	Kumar, A., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Takeuchi, Y., College of Science and Engineering, Department of Mathematical Sciences, Aoyama Gakuin University, Kanagawa, 252-5258, Japan; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India	Mathematical Biosciences and Engineering	2023	15471063
7529	Modified Sine Cosine-Based Controller for Microgrid Frequency Regulation	Khadanga R.K., Sahu P.R., Kumar A., Hota P.K., Panda S.	Khadanga, R.K., Department of Electrical and Electronics Engineering, Centurion University of Technology and Management, Bhubaneswar, 752050, India; Sahu, P.R., Department of Electrical and Electronics Engineering, NIST Institute of Science and Technology, Berhampur, 761008, India; Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hota, P.K., Department of Electrical Engineering, Veer Surendra Sai University of Technology, Burla, 768018, India; Panda, S., Department of Electrical Engineering, Veer Surendra Sai University of Technology, Burla, 768018, India	Lecture Notes in Electrical Engineering	2023	18761100
7530	A High Gain CPW Fed Metamaterial Antenna for UWB Applications	Negi D., Khanna R.	Negi, D., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Progress In Electromagnetics Research C	2023	19378718
7531	Platform Tolerant RFID Tag Antenna Design for Safety and Real-Time Tracking of On-site Workers at Riskier Workplaces	Bansal A., Khanna R., Sharma S.	Bansal, A., Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India, Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Antennas and Propagation	2023	16875869
7532	A mathematical model for the impact of disinfectants on the control of bacterial diseases	Kumar Gupta R., Kumar Rai R., Kumar Tiwari P., Kumar Misra A., Martcheva M.	Kumar Gupta, R., Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi, India, Department of Mathematics, Butwal Multiple Campus, T.U., Lumbini, Nepal; Kumar Rai, R., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, India; Kumar Tiwari, P., Department of Basic Science and Humanities, Indian Institute of Information Technology, Bhagalpur, India; Kumar Misra, A., Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi, India; Martcheva, M., Department of Mathematics, University of Florida, Gainesville, FL, United States	Journal of Biological Dynamics	2023	17513758

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7533	Automated Question and Answer Generation from Texts using Text-to-Text Transformers	Goyal R., Kumar P., Singh V.P.	Goyal, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, V.P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Arabian Journal for Science and Engineering	2023	2193567X
7534	Optimizing Edge-Cloud Synergy for Big Data Analytics	Singh R., Kumar N.	Singh, R., University of Bath, Department of Computer Science, United Kingdom; Kumar, N., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Pb, India	2023 IEEE 13th Annual Computing and Communication Workshop and Conference, CCWC 2023	2023	
7535	A comprehensive review of modified Internal Model Control (IMC) structures and their filters for unstable processes	Ranjan A., Mehta U., Saxena S.	Ranjan, A., Discipline of Electrical and Electronic Engineering, The University of the South Pacific, Laucala campus, Fiji; Mehta, U., Discipline of Electrical and Electronic Engineering, The University of the South Pacific, Laucala campus, Fiji; Saxena, S., Thapar Institute of Engineering and Technology, Patiala, India	Annual Reviews in Control	2023	13675788
7536	BISGA: Recalculating the Entire Boolean-Valued Information System from Aggregates Using a Genetic Algorithm	Ali S., Khan M.S., Shah H., Garg H., Alsheddy A.	Ali, S., Sub Campus, Sarhad University of Science and Information Technology, Mardan, Pakistan; Khan, M.S., Department of Computer Science, University of Chitral, Chitral, Pakistan; Shah, H., College of Computer Science, Department of Computer Science, King Khalid University, Abha, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to Be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq; Alsheddy, A., College of Computer and Information Sciences, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia	Complexity	2023	10762787
7537	Electrooxidation treatment of simulated wastewater using mixed-metal oxide anodes for bacterial decontamination	Chandra P., Choudhury D., Verma A.	Chandra, P., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India, TIET-VT (Virginia Tech-USA) Centre of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Verma, A., TIET-VT (Virginia Tech-USA) Centre of Excellence for Emerging Materials (CEEMS), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, School of Energy and Environment, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India	Comptes Rendus Chimie	2023	16310748
7538	Experimental investigations for the characterisation of an SMA-bias spring actuator in a flexible tube manipulator	Bhatt N., Soni S., Singla A.	Bhatt, N., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Soni, S., Central Scientific Instruments Organization (CSIR-CSIO), Chandigarh, 160030, India; Singla, A., Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Materials and Product Technology	2023	2681900
7539	BEET: Blockchain Enabled Energy Trading for E-Mobility Oriented Electric Vehicles	Bhawana, Kumar S., Rathore R.S., Dohare U., Kaiwartya O., Lloret J., Kumar N.	Bhawana, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Kumar, S., School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, India; Rathore, R.S., Department of Computer Science, Cardiff School of Technologies, Cardiff Metropolitan University, Cardiff Llandaff Campus, Cardiff, U.K; Dohare, U., School of Computing & Engineering, Galgotias University, Greater Noida, India; Kaiwartya, O., Department of Computer Science, Nottingham Trent University, U.K; Lloret, J., Department of Communications, University at Politcnica de Valencia, Valencia, Spain; Kumar, N., School of Computer Sciences, University of Petroleum and Energy Studies, Dehradun and Thapar University Patiala Punjab, India	IEEE Transactions on Mobile Computing	2023	15361233
7540	Comparative Performance Study of Different Filtering Techniques with LSTM for the Prediction of Power Consumption in Smart Grid	Kumari S., Kumar N., Rana P.S.	Kumari, S., Thapar Institute of Engineering and Technology Patiala, Patiala, 147001, India; Kumar, N., Thapar Institute of Engineering and Technology Patiala, Patiala, 147001, India; Rana, P.S., Thapar Institute of Engineering and Technology Patiala, Patiala, 147001, India	IETE Journal of Research	2023	3772063
7541	Sustainability assessment of biomass-based energy supply chain using multi-objective optimization model	Yildiz H.G., Ayvaz B., Kuşakcı A.O., Devenci M., Garg H.	Yildiz, H.G., Faculty of Engineering, Istanbul Commerce, Küçükyalı E5 Kavşağı İnönü Cad. No: 4, Küçükyalı, Istanbul, 34840, Turkey; Ayvaz, B., Faculty of Engineering, Istanbul Commerce, Küçükyalı E5 Kavşağı İnönü Cad. No: 4, Küçükyalı, Istanbul, 34840, Turkey; Kuşakcı, A.O., School of Business, İbn Haldun University, Başak Mah. Ordu Cad. F-05 Blok No:3 Basaksehir, Istanbul, 34480, Turkey; Devenci, M., The Bartlett School of Sustainable Construction, University College London, London, WC1E 6BT, United Kingdom, Department of Industrial Engineering, Turkish Naval Academy, National Defence University, Tuzla, Istanbul, 34940, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, College of Technical Engineering, The Islamic University, Najaf, Iraq	Environment, Development and Sustainability	2023	1387585X
7542	Modelling, analysis and control of bidirectional SEPIC converter for energy storage applications	Ghosh A., Meher J., Sonar S., Banerjee S.	Ghosh, A., Department of Electrical Engineering, National Institute of Technology Rourkela, Rourkela, 769008, India; Meher, J., Department of Electrical Engineering, National Institute of Technology Rourkela, Rourkela, 769008, India; Sonar, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, India; Banerjee, S., Department of Electrical Engineering, National Institute of Technology Durgapur, Durgapur, 713209, India	International Journal of Power Electronics	2023	1756638X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7543	Operation of Unified Power Quality Conditioner with Photovoltaic Arrays	Jain A., Panda K.P., Bhullar S.	Jain, A., SOET, Department of Electrical Engineering, Pandit Deendayal Energy University, Gujarat, Gandhinagar, India; Panda, K.P., SOET, Department of Electrical Engineering, Pandit Deendayal Energy University, Gujarat, Gandhinagar, India; Bhullar, S., Thapar University, Department of Electrical & Instrumentation Engineering, Punjab, Patiala, India	2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies, GlobConHT 2023	2023	
7544	An MPF method-based Torsional Vibration Analysis of RBHCC-driven PMSM Coupled System in comparison with SPWM Technique for EVs and HEVs Transmission	Thakur R.K., Pindoriya R.M., Kumar R., Rajpurohit B.S.	Thakur, R.K., Indian Institute of Technology Mandi, Himachal Pradesh, India; Pindoriya, R.M., Thapar Institute of Engineering and Technology, Patiala, India; Kumar, R., Indian Institute of Technology Mandi, Himachal Pradesh, India; Rajpurohit, B.S., Indian Institute of Technology Mandi, Himachal Pradesh, India	2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies, GlobConHT 2023	2023	
7545	Effect of variation of ceramic reinforcement content on metallurgical and cavitation erosion behaviour of microwave processed composite clads	Bansal S., Kaushal S., Gupta D., Jain V.	Bansal, S., Mechanical Engineering Department, Shree Guru Gobind Singh Tricentenary University, Haryana, Gurugram, India; Kaushal, S., Mechanical Engineering Department, Gulzar Group of Institutions, Punjab, Khanna, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Surface Science and Engineering	2023	1749785X
7546	Editorial: Artificial intelligence for mental disorder prevention and diagnosis: Technologies and challenges	Zhang P., Kumar N., Zakarya M., Abualigah L.	Zhang, P., Qingdao Institute of Software, College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China, State Key Laboratory of Integrated Services Networks, Xidian University, Xi'an, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India; Zakarya, M., Faculty of Computing and Information Technology, Sohar University, Sohar, Oman, Department of Computer Science, Abdul Wali Khan University, Mardan, Pakistan; Abualigah, L., Faculty of Information Technology, Middle East University, Amman, Jordan	Frontiers in Psychiatry	2023	16640640
7547	A Critical Study of Biometrics and Their Fusion	Shekhar M., Patgiri R., Trivedi A.K., Dhar P.	Shekhar, M., National Institute of Technology Silchar, Computer Science and Engineering, Silchar, India; Patgiri, R., National Institute of Technology Silchar, Computer Science and Engineering, Silchar, India; Trivedi, A.K., Thapar Institute of Engineering and Technology, Computer Science and Engineering, Patiala, India; Dhar, P., National Institute of Technology Silchar, Computer Science and Engineering, Silchar, India	Proceedings of 2023 International Conference on Intelligent Systems, Advanced Computing and Communication, ISACC 2023	2023	
7548	Continuous Time LQR Based Position Control for an Electro-Hydraulic Actuation System	Kumawat A.K., Kumawat R., Rout R., Rawat M.	Kumawat, A.K., Manipal University Jaipur, Department of Mechatronics Engineering, Jaipur, India; Kumawat, R., Manipal University Jaipur, Department of Computer and Communication Engg, Jaipur, India; Rout, R., Thapar Institute of Engineering and Technology, Department of Mechanical Engineering, Patiala, India; Rawat, M., Manipal University Jaipur, Department of Mechatronics Engineering, Jaipur, India	2023 International Conference for Advancement in Technology, ICONAT 2023	2023	
7549	Estimation of Defect Depth in Carbon Fibre Reinforced Polymer Using Frequency Modulated Thermal Wave Imaging: An Analytical Study	Rani A., Das P., Sharma A., Arora V., Dua G., Mulaveesala R.	Rani, A., Department of Electrical Engineering, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India; Das, P., Centre for Sensors, Instrumentation and Cyber Physical System Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Sharma, A., Centre for Sensors, Instrumentation and Cyber Physical System Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Arora, V., School of Electronics, Indian Institute of Information Technology Una, Himachal-Pradesh, Una, 177209, India; Dua, G., Thapar Institute of Engineering and Technology, Patiala, 147004, India; Mulaveesala, R., Centre for Sensors, Instrumentation and Cyber Physical System Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Russian Journal of Nondestructive Testing	2023	10618309
7550	Identification and mechanistic exploration of structural and conformational dynamics of NF-kB inhibitors: rationale insights from in silico and in vitro studies	Srivastava A.K., Srivastava S., Kumar V., Ghosh S., Yadav S., Malik R., Roy P., Prasad R.	Srivastava, A.K., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India; Srivastava, S., Department of Pharmacy, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Rajasthan, Ajmer, India; Kumar, V., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India; Ghosh, S., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India; Yadav, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Malik, R., Department of Pharmacy, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Rajasthan, Ajmer, India; Roy, P., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India; Prasad, R., Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, Roorkee, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7551	Utilization of Linz-Donawitz slag and brick bat for the production of sustainable paver blocks	Singh P., Sharma A., Danie Roy A.B.	Singh, P., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, A., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Danie Roy, A.B., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Materials Today: Proceedings	2023	22147853
7552	5G Cyber Risks and Mitigation	Soni S.	Soni, S., Thapar University Patiala, India	5G Cyber Risks and Mitigation	2023	

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7553	Future research directions of antimicrobial wound dressings	Sharda D., Attri K., Choudhury D.	Sharda, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Attri, K., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, BioX, Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Choudhury, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, BioX, Centre of Excellence for Emerging Materials, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Antimicrobial Dressings: The Wound Care Applications	2023	
7554	Equivalence for Various Forms of Quadratic Functional Equations and Their Generalized Hyers-Ulam-Rassias Stability	Sharma R.K., Chandok S.	Sharma, R.K., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	International Journal of Mathematics and Mathematical Sciences	2023	1611712
7555	Gibberellin 2-Oxidases in Potato (Solanum tuberosum L.): Cloning, Characterization, In Silico Analysis and Molecular Docking	Kaur Y., Das N.	Kaur, Y., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Das, N., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Molecular Biotechnology	2023	10736085
7556	A Modified Newman-Girvan Technique for Community Detection	Muhuri S., Vatsa D.	Muhuri, S., Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Vatsa, D., Bennett University, UP, Greater Noida, 201310, India	Lecture Notes in Networks and Systems	2023	23673370
7557	Surface application of multifunctional compound to prevent and control combined chloride and carbonation corrosion in concrete	Kumar Tiwari A., Purnima, Goyal S., Luxami V.	Kumar Tiwari, A., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Purnima, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Luxami, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	European Journal of Environmental and Civil Engineering	2023	19648189
7558	Oblique wave trapping by a permeable wall breakwater connected with thick surface porous layer	Dhanunjaya E., Venkateswarlu V., Rayudu E.S.	Dhanunjaya, E., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Venkateswarlu, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rayudu, E.S., Department of Civil Engineering, G. Pulla Reddy Engineering College, Affiliated to Jawaharlal Nehru Technological University Anantapur, Ananthapuram, Andhra Pradesh, Kurnool, India	Ships and Offshore Structures	2023	17445302
7559	Source Camera Identification Using Hybrid Feature Set and Machine Learning Classifiers	Jaiswal A.K., Srivastava R.	Jaiswal, A.K., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Srivastava, R., Department of Computer Science and Engineering, Indian Institute of Technology (BHU), Varanasi, India	EAI/Springer Innovations in Communication and Computing	2023	25228595
7560	Effect of process parameters on surface roughness of NiCu alloy in fluid jet polishing	Choudhary S., Duvedi R.K., Saini J.S.	Choudhary, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Duvedi, R.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Saini, J.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
7561	Structural and molecular insights into tacrine-benzofuran hybrid induced inhibition of amyloid- β peptide aggregation and BACE1 activity	Kaur R., Narang S.S., Singh P., Goyal B.	Kaur, R., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, India; Narang, S.S., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, India; Singh, P., Department of Chemistry, Faculty of Basic and Applied Sciences, Sri Guru Granth Sahib World University, Punjab, Fatehgarh Sahib, India; Goyal, B., School of Chemistry & Biochemistry, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Biomolecular Structure and Dynamics	2023	7391102
7562	A Near-Perfect Wideband Metamaterial Absorber Using Conductive Ink with Wide Angular Stability and Polarization Insensitive Behaviour	Puri V., Singh H.S.	Puri, V., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India, Department of Electronics and Communication Engineering, Baba Ghulam Shah Badshah University, Jammu and Kashmir, Rajouri, 185234, India; Singh, H.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India, TIET-VT Center of Excellence for Emerging Materials (CEEMS), TIET, Punjab, Patiala, 147004, India	IETE Journal of Research	2023	3772063
7563	Effect of fly ash and red mud on strength and electrochemical properties of seawater mixed concrete	Goyal A., Karade S.R.	Goyal, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Karade, S.R., Advanced Structural Composites and Durability (ASCD) Group, CSIR-Central Building Research Institute, Roorkee, India	European Journal of Environmental and Civil Engineering	2023	19648189
7564	A review on lignin based nanocomposites: Fabrication, characterization and application	Arya A., Ahamad A., Kumar P., Chandra A.	Arya, A., Department of Chemical Engineering, Institute of Engineering and Technology, Lucknow, 226021, India; Ahamad, A., Department of Chemical Engineering, Institute of Engineering and Technology, Lucknow, 226021, India; Kumar, P., Department of Chemical Engineering, Institute of Engineering and Technology, Lucknow, 226021, India; Chandra, A., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	Materials Today: Proceedings	2023	22147853
7565	Identification and analysis of allergens in edible mushroom (Agaricus bisporus)	Singh A., Garg S., Kumar Upadhyay A.	Singh, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Garg, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India; Kumar Upadhyay, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, Punjab, India	Materials Today: Proceedings	2023	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7566	An Extensive Survey on Classification of Malaria Parasites in Patients Based on Fuzzy Approaches	Srivastava D., Muhuri S., Singh S.S., Verma M.	Srivastava, D., School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, Greater Noida, 201310, India; Muhuri, S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Verma, M., School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, Greater Noida, 201310, India	Forum for Interdisciplinary Mathematics	2023	23646748
7567	Role of Centrality Measures in Link Prediction on Fuzzy Social Networks	Singh S.S., Verma M., Muhuri S., Srivastava D.	Singh, S.S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Verma, M., School of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India; Muhuri, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Srivastava, D., School of Computer Science and Engineering, Bennett University, Uttar Pradesh, Greater Noida, 201310, India	Forum for Interdisciplinary Mathematics	2023	23646748
7568	Recent Developments in Fuzzy Dynamic Data Envelopment Analysis and Its Applications	Kaur R., Puri J.	Kaur, R., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Puri, J., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Forum for Interdisciplinary Mathematics	2023	23646748
7569	Discriminating between log-normal and log-logistic distributions in the presence of type-II censoring	Diyali B., Kumar D., Singh S.	Diyali, B., Department of Statistics, Central University of Haryana, Mahendragarh, India; Kumar, D., Department of Statistics, Central University of Haryana, Mahendragarh, India; Singh, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India	Computational Statistics	2023	9434062
7570	Significance of radiant-energy and multiple slips on convective flow of mono, binary and ternary hybrid nanofluids: A comparative study	Singla T., Sharma S., Kumar B.	Singla, T., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 47004, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 47004, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 47004, India	International Journal of Modern Physics B	2023	2179792
7571	Users' Acceptance of Artificial Intelligence-Based Chatbots: An Empirical Study	Goli M., Sahu A.K., Bag S., Dhamija P.	Goli, M., School of Management, Anurag University, India; Sahu, A.K., Department of Mechanical Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, India; Bag, S., Department of Transport and Supply Chain Management, University of Johannesburg, South Africa; Dhamija, P., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	International Journal of Technology and Human Interaction	2023	15483908
7572	Thin-Films for Machining Difficult-to-Cut Materials: Challenges, Applications, and Future Prospects	Kumar C.S., Fernandes F.D.	Kumar, C.S., Thapar Institute of Engineering and Technology, India, Aeronautics Advanced Manufacturing Centre, Bilbao, Spain, Department of Mechanical Engineering, Madanapalle Institute of Technology and Science, India, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa; Fernandes, F.D., School of Engineering, Polytechnic of Porto, Portugal, University of Coimbra, Portugal	Thin-Films for Machining Difficult-to-Cut Materials: Challenges, Applications, and Future Prospects	2023	
7573	Design and life cycle assessment of retaining wall with used foundry sand as backfill	Kumar A., Parihar A.	Kumar, A., Research Scholar, Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Parihar, A., Assistant Professor, Dept. of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Geotechnical Special Publication	2023	8950563
7574	Development of Mg-based metal matrix biomedical composites for acicular cruciate ligament fixation by reinforcing with rare earth oxide and hydroxyapatite - A mechanical, corrosion, and microstructural perspective	Aggarwal D., Kumar V., Sharma S.	Aggarwal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, S., Department of Biotechnology Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Science and Engineering of Composite Materials	2023	7921233
7575	Three dimensional printing of deformed ankle foot and pelvis using poly lactic acid for pre surgical planning	Sharma S., Sharma M., Jain V., Gupta V.	Sharma, S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, M., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal on Interactive Design and Manufacturing	2023	19552513
7576	Single-nucleotide polymorphisms of nucleotide excision repair genes and their association with overall survival in North Indian lung cancer patients treated with platinum-based doublet chemotherapy	Singh S., Sharma S., Lawania S., Singh N.	Singh, S., D Y Patil International University, Pune, Maharashtra, Akurdi, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Lawania, S., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education and Research, Chandigarh, India	Journal of Cancer Research and Therapeutics	2023	9731482

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7577	Silver and gold nanoparticles: Promising candidates as antimicrobial nanomedicines	Vala A.K., Andhariya N., Chudasama B.K.	Vala, A.K., Department of Life Sciences, Maharaja Krishnakumarsinhji Bhavnagar University, Gujarat, Bhavnagar, India; Andhariya, N., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chudasama, B.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Gold and Silver Nanoparticles: Synthesis and Applications	2023	
7578	Survey and Performance Evaluation of Clustering and Cooperative Medium Access Protocols for Vehicular Networks	Verma P., Garg T., Shukla A.	Verma, P., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Garg, T., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Shukla, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Communications in Computer and Information Science	2023	18650929
7579	Soy Flour Ash for Adsorption of Cationic and Anionic Dyes from Aqueous Media	Choudhary R., Gupta A., Pandey O.P., Brar L.K.	Choudhary, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Gupta, A., Department of Mechanical Engineering, GLA University, Mathura, 281406, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Brar, L.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2023	21954356
7580	Near Threshold Operation Based a Bug Immune DET-FF for IoT Applications	Singar S., Dhaka R.S.	Singar, S., Bhartiya Skill Development University, Rajasthan, Jaipur, India; Dhaka, R.S., Thapar Institute of Engineering and Technology, Panjab, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7581	A Low Overhead and Scalable Authentication and Encryption Scheme for Medical Wireless Sensor Networks	Vohra H., Hasan M.K., Shukla H., Muniyandi R.C., Alhumyani H., Alzaidi M.S., Islam Manna M.S., Habib A.K.M.A.	Vohra, H., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, India; Hasan, M.K., Center from Cyber Security, Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Selangor, Malaysia; Shukla, H., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, India; Muniyandi, R.C., Center from Cyber Security, Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Selangor, Malaysia; Alhumyani, H., Department of Computer Engineering, College of Computers and Information Technology, Taif University, Taif, Saudi Arabia; Alzaidi, M.S., Department of Electrical Engineering, College of Engineering, Taif University, Taif, Saudi Arabia; Manna, M.S., Electrical and Instrumentation Department, Sant Longowal Institute of Engineering and Technology, Punjab, Longowal, India; Islam, S., Institute of Computer Science and Digital Innovation, UCSI University, Kuala Lumpur, Malaysia; Habib, A.K.M.A., Center from Cyber Security, Faculty of Information Science and Technology, Universiti Kebangsaan Malaysia (UKM), Selangor, Malaysia	Human-centric Computing and Information Sciences	2023	21921962
7582	Ontology-Based Querying from Heterogeneous Sensor Data for Heart Failure	Hooda D., Rani R.	Hooda, D., CSED, Thapar Institute of Engineering and Technology, Patiala, India; Rani, R., CSED, Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7583	Synthesis and substrate-controlled modification of β -aminocarbonyl using α -amylase enzyme and Pd-catalyst in one-pot	Dutt S., Tyagi V.	Dutt, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India; Tyagi, V., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, India	Biocatalysis and Biotransformation	2023	10242422
7584	Globally convergent iterative scheme for computing matrix sign function with numerical stability	Kansal M., Rani L.	Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Rani, L., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Mathematical Methods in the Applied Sciences	2023	1704214
7585	Secure and Efficient Data Integrity Verification Scheme for Cloud Data Storage	Garg N., Nehra A., Baza M., Kumar N.	Garg, N., Thapar Institute of Engineering and Technology, Punjab, India; Nehra, A., Thapar Institute of Engineering and Technology, Punjab, India; Baza, M., College of Charleston, Department of Computer Science, Charleston, United States; Kumar, N., Thapar Institute of Engineering and Technology, Punjab, India	Proceedings - IEEE Consumer Communications and Networking Conference, CCNC	2023	23319860
7586	Analyzing the tribological and mechanical performance of Al-6061 with rare earth oxides: An experimental analysis	Sharma V.K., Kumar P., Akai S., Kumar V., Joshi R.S.	Sharma, V.K., Department of Mechanical Engineering, IIMT University, Uttar Pradesh, Meerut, India; Kumar, P., Department of Mechanical Engineering, Chandigarh Group of Colleges Jhanjeri Mohali, Punjab, Chandigarh, India; Akai, S., Department of Mechanical Engineering, Chandigarh Group of Colleges Jhanjeri Mohali, Punjab, Chandigarh, India; Kumar, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Joshi, R.S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7587	Energy utilization area under Complex q-rung orthopair fuzzy soft information	Jan N., Gwak J., Garg H., Jeon Y., Kang H.	Jan, N., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea; Gwak, J., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea, Department of Biomedical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of AI Robotics Engineering, Korea National University of Transportation, Chungju, 27469, South Korea, Department of IT & Energy Convergence (BK21 FOUR), Korea National University of Transportation, Chungju, 27469, South Korea; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan, Department of Mathematics, Graphic Era, Deemed to be University, Uttarakhand, Dehradun, 248002, India, College of Technical Engineering, The Islamic University, Najaf, Iraq; Jeon, Y., Department of Software, Korea National University of Transportation, Chungju, 27469, South Korea; Kang, H., Department of Electrical Engineering, Korea National University of Transportation, Chungju, 27469, South Korea	AIMS Mathematics	2023	24736988
7588	Existence of fixed point for a pair of mappings in complex valued metric space and application to integral equations	Kumar D., Chandok S.	Kumar, D., Department of Mathematics, Lovely Professional University, Punjab, Phagwara, 144411, India; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Nonlinear Studies	2023	13598678
7589	Examining the Role of Market Concentration in Enhancing Total Factor Productivity: A Comparative Analysis of Selected Agri-based and Hi-Technology Sectors	Kaur P.P., Kiran R.	Kaur, P.P., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kiran, R., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of the Knowledge Economy	2023	18687865
7590	A Systematic Review on 4D Printing Technology	Anas Ansar S., Singh A., Aggrawal S., Soni N., Chandra Pathak P.	Anas Ansar, S., Babu Banarasi Das University Lucknow, India; Singh, A., Babu Banarasi Das University Lucknow, India; Aggrawal, S., Thapar Institute of Engineering and Technology Patiala, India; Soni, N., Babu Banarasi Das University Lucknow, India; Chandra Pathak, P., Babu Banarasi Das University Lucknow, India	Materials Today: Proceedings	2023	22147853
7591	Physical, optical, and mechanical properties of commercially available windshield glasses using various cars	Kumar S., Kumar D., Singh K.	Kumar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physics: Conference Series	2023	17426588
7592	A comparative study of Raman spectroscopic and photoluminescence properties of the eggshell powder and conventional calcium carbonate	Kaur N., Singh K.	Kaur, N., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Physics: Conference Series	2023	17426588
7593	Impact of functional crosstalk on mixed CNT bundles for future VLSI nodes	Dhillon G., Singh K.	Dhillon, G., Department of ECE, Thapar Institute of Engineering and Technology, Patiala 147004, India; Singh, K., Department of ECE, Thapar Institute of Engineering and Technology, Patiala 147004, India	Materials Today: Proceedings	2023	22147853
7594	Attentive-Adaptive Network for Hyperspectral Images Classification With Noisy Labels	Wang L., Zhu T., Kumar N., Li Z., Wu C., Zhang P.	Wang, L., China University of Petroleum (East China), Qingdao Institute of Software, College of Computer Science and Technology, Qingdao, 266580, China, Xidian University, State Key Laboratory of Integrated Services Networks, Xi'an, 710071, China; Zhu, T., China University of Petroleum (East China), Qingdao Institute of Software, College of Computer Science and Technology, Qingdao, 266580, China; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, Lebanese American University, Department of Electrical and Computer Engineering, Beirut, 1102 2801, Lebanon; Li, Z., China University of Petroleum (East China), College of Oceanography and Space Informatics, Qingdao, 266580, China; Wu, C., China University of Petroleum (East China), Qingdao Institute of Software, College of Computer Science and Technology, Qingdao, 266580, China; Zhang, P., China University of Petroleum (East China), Qingdao Institute of Software, College of Computer Science and Technology, Qingdao, 266580, China, Xidian University, State Key Laboratory of Integrated Services Networks, Xi'an, 710071, China	IEEE Transactions on Geoscience and Remote Sensing	2023	1962892

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7595	Role of Remote Sensing in Precision Agriculture	Sharma B., Aggarwal U., Kaur K., Saini H., Rani S., Kumar P., Verma K., Shacham Y.	Sharma, B., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Aggarwal, U., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaur, K., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Saini, H., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Rani, S., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, P., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Verma, K., CSED, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Shacham, Y., Electrical Engineering, Tel Aviv University, Tel Aviv, Israel	Lecture Notes in Networks and Systems	2023	23673370
7596	Synthesis and Characterizations of Gd _{1.99} Ce _{0.01} O ₃ Phosphors	Narang M., Priya R., Tiwari A., Kaur A., Singh K., Pandey O.P.	Narang, M., University Institute of Sciences, Department of Physics, Chandigarh University, Punjab, Mohali, 140413, India; Priya, R., University Institute of Sciences, Department of Physics, Chandigarh University, Punjab, Mohali, 140413, India; Tiwari, A., School of Physical Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Kaur, A., University Institute of Sciences, Department of Physics, Chandigarh University, Punjab, Mohali, 140413, India; Singh, K., University Centre for Research and Development (UCRD), Chandigarh University, Punjab, Mohali, 140413, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	IOP Conference Series: Earth and Environmental Science	2023	17551307
7597	Investigate the optical and dry sliding wear behavior of solid lubricated sillimanite reinforced aluminum metal matrix composite	Singhal V., Gupta A., Pandey O.P., Sharma D., Kumar Jain V.	Singhal, V., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Mechanical Engineering, IMS Engineering College, Uttar Pradesh, Ghaziabad, 201002, India; Gupta, A., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India; Pandey, O.P., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sharma, D., Department of Mechanical Engineering, GLA University, Uttar Pradesh, Mathura, 281406, India; Kumar Jain, V., Mechanical Engineering Department, Institute of Technology and Management, Uttar Pradesh, Maharajanj, 273303, India	Materials Today: Proceedings	2023	22147853
7598	GTFR: A Game Theory Based Fuzzy Routing Protocol for WSNs	Gangwar S., Yogita, Prasad I.B., Yadav S.S., Pal V., Kumar N.	Gangwar, S., Department of Computer Science and Engineering, National Institute of Technology Meghalaya, India; Yogita, Department of Computer Science and Engineering, National Institute of Technology Meghalaya, India; Prasad, I.B., Department of Computer Science and Engineering, National Institute of Technology Meghalaya, India; Yadav, S.S., Department of Electronics and Communication Engineering, National Institute of Technology Meghalaya, India; Pal, V., Department of Computer Science and Engineering, National Institute of Technology Meghalaya, India; Kumar, N., CSED, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IEEE Sensors Journal	2023	1530437X
7599	How Visual Stimuli Evoked P300 is Transforming the Brain-Computer Interface Landscape: A PRISMA Compliant Systematic Review	Kalra J., Mittal P., Mittal N., Arora A., Tewari U., Chharia A., Upadhyay R., Kumar V., Longo L.	Kalra, J., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Mittal, P., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Mittal, N., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Arora, A., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Tewari, U., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Chharia, A., Thapar Institute of Engineering and Technology, Department of Mechanical Engineering, Punjab, Patiala, 147004, India; Upadhyay, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Kumar, V., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Longo, L., Technological University Dublin, Artificial Intelligence and Cognitive Load Research Laboratory, Applied Intelligence Research Centre, School of Computer ScienceDublin 7 D07 EWW4, Ireland	IEEE Transactions on Neural Systems and Rehabilitation Engineering	2023	15344320
7600	Classification of Area of Interest based on 2D map using Segmentation for path planning of Airborne Landmines Detection	Barnawi A., Thakur N., Kumar N., Kumar K., Alzahrani B., Almansour A.	Barnawi, A., King Abdulaziz University, Department of Computing and It, Jeddah, Saudi Arabia; Thakur, N., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India; Kumar, N., King Abdulaziz University, Department of Computing and It, Jeddah, Saudi Arabia; Kumar, K., Thapar Institute of Engineering and Technology, Computer Science and Engineering Department, Punjab, Patiala, India; Alzahrani, B., King Abdulaziz University, Department of Computing and It, Jeddah, Saudi Arabia; Almansour, A., King Abdulaziz University, Department of Computing and It, Jeddah, Saudi Arabia	Digest of Technical Papers - IEEE International Conference on Consumer Electronics	2023	0747668X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7601	Synthesis of adsorbent from rubberwood sawdust (Hevea brasiliensis)	Dubey U., Maurya A., Rawat M., Tiwari D., Chalotra A.	Dubey, U., Department of Chemical Engineering, Chandigarh University, Punjab, India, Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, India, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Maurya, A., Department of Chemical Engineering, Chandigarh University, Punjab, India, Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, India, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Rawat, M., Department of Chemical Engineering, Chandigarh University, Punjab, India, Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, India, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Tiwari, D., Department of Chemical Engineering, Chandigarh University, Punjab, India, Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, India, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, India; Chalotra, A., Department of Chemical Engineering, Chandigarh University, Punjab, India, Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Punjab, India, Department of Civil Engineering, Thapar Institute of Engineering and Technology, Punjab, India	Materials Today: Proceedings	2023	22147853
7602	Text Classification Using Correlation Based Feature Selection on Multi-layer ELM Feature Space	Roul R.K., Sahoo J.K., Satyanath G.	Roul, R.K., Department of Computer Science, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sahoo, J.K., Department of Mathematics, BITS Pilani, K.K.Birla, Goa Campus, Sancoale, India; Satyanath, G., Department of Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, PA, United States	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2023	3029743
7603	Implementation of blockchain-enabled supply chain finance solutions in the agricultural commodity supply chain: a transaction cost economics perspective	Bhatia M.S., Chaudhuri A., Kayikci Y., Treiblmaier H.	Bhatia, M.S., LM Thapar School of Management, Dera Bassi, India; Chaudhuri, A., Durham University Business School, Durham University, Durham, United Kingdom; Kayikci, Y., Sheffield Business School, Sheffield Hallam University, Sheffield, United Kingdom, Science Policy Research Unit, University of Sussex Business School, Brighton, United Kingdom; Treiblmaier, H., School of International Management, Modul University Vienna, Vienna, Austria	Production Planning and Control	2023	9537287
7604	Low-Frequency Adaptation-Deep Neural Network-Based Domain Adaptation Approach for Shaft Imbalance Fault Diagnosis	Arora J.K., Rajagopalan S., Singh J., Purohit A.	Arora, J.K., Thapar Institute of Engineering and Technology, Patiala, India; Rajagopalan, S., Thapar Institute of Engineering and Technology, Patiala, India; Singh, J., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Vibration Engineering and Technologies	2023	25233920
7605	A State Observer-Based Fractional-Order Approach for Trajectory Tracking and Attitude Control of A Quadrotor	Bist A., Sondhi S.	Bist, A., Thapar Institute of Engineering and Technology, Patiala, India; Sondhi, S., Thapar Institute of Engineering and Technology, Patiala, India	IETE Journal of Research	2023	3772063
7606	Investigation of Infrared Thermography of Cortical Bone Grinding in Neurosurgery	Babbar A., Jain V., Gupta D., Goyal K.K., Prakash C., Saxena K.K., Kumar S., Bartoszuk M.	Babbar, A., Department of Mechanical Engineering, SGT University, Haryana, Gurugram, 122505, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147003, India; Goyal, K.K., Department of Industrial and Production Engineering, Dr. B.R Ambedkar National Institute of Technology, Jalandhar, 144011, India; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, 144411, India; Saxena, K.K., Division of Research and Development, Lovely Professional University, Phagwara, 144411, India; Kumar, S., Division of Research & Innovation, Uttaranchal University, Uttarakhand, Dehradun, 248007, India; Bartoszuk, M., Faculty of Mechanical Engineering, Opole University of Technology, ul. Mikotajczyka 5, Opole, 45-271, Poland	Advances in Science and Technology Research Journal	2023	22998624
7607	Numerical Investigation to Predict the Elastic Properties of Natural Fiber-Reinforced Composite Using Homogenization Technique	Bijlwan P.P., Prasad L., Sharma A.	Bijlwan, P.P., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, 246174, India; Prasad, L., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, 246174, India; Sharma, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2023	21954356
7608	Investigation of Traffic Dynamics Considering Driver's Characteristics and Downstream Traffic Conditions	Madaan N., Sharma S.	Madaan, N., School of Mathematics (SOM), Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India; Sharma, S., School of Mathematics (SOM), Thapar Institute of Engineering and Technology (TIET), Patiala, 147004, India	Springer Proceedings in Mathematics and Statistics	2023	21941009
7609	Effect of Mechanical Properties of Cold Mix Asphalt Mixture Containing Different Proportion of Fillers	Meena P., Naga G.R.R., Kumar P., Monu K.	Meena, P., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Naga, G.R.R., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Kumar, P., Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Monu, K., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Pavement Research and Technology	2023	19966814

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7610	Self-focusing, self-trapping and self-phase modulation of elliptical q-Gaussian laser beams in collisionless plasma	Gupta N., Johari R., Bhardwaj S.B., Bhardwaj D., Alex A.K., Shishodia S., Kohli N.	Gupta, N., Lovely Professional University, Phagwara, India; Johari, R., Lovely Professional University, Phagwara, India; Bhardwaj, S.B., SUS Govt College, Matak-Majri, Indri, Karnal, India; Bhardwaj, D., Lovely Professional University, Phagwara, India; Thapar Institute of Engineering and Technology, Patiala, India; Alex, A.K., Lovely Professional University, Phagwara, India; Shishodia, S., Lovely Professional University, Phagwara, India; Kohli, N., Lovely Professional University, Phagwara, India	Journal of Optics (India)	2023	9728821
7611	Optimal Parameter Estimation of Solar Photovoltaics Through Nature Inspired Metaheuristic and Hybrid Approaches	Chauhan A., Prakash S.	Chauhan, A., Department of Electrical Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India; Prakash, S., Department of Electrical Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, India	IETE Journal of Research	2023	3772063
7612	Impacts of blockchain in software-defined Internet of Things ecosystem with Network Function Virtualization for smart applications: Present perspectives and future directions	Rahman A., Islam J., Kundu D., Karim R., Rahman Z., Band S.S., Sookhak M., Tiwari P., Kumar N.	Rahman, A., Department of Computer Science and Engineering, National Institute of Textile Engineering and Research (NITER), Constituent Institute of Dhaka University, Dhaka, Bangladesh, Mawlana Bhashani Science and Technology University, Dhaka, Bangladesh; Islam, J., Green University of Bangladesh, Dhaka, Bangladesh; Kundu, D., Department of Computer Science and Engineering, National Institute of Textile Engineering and Research (NITER), Constituent Institute of Dhaka University, Dhaka, Bangladesh; Karim, R., Mawlana Bhashani Science and Technology University, Dhaka, Bangladesh; Rahman, Z., Mawlana Bhashani Science and Technology University, Dhaka, Bangladesh; Band, S.S., Future Technology Research Center, College of Future, National Yunlin University of Science and Technology, Douliu, Taiwan; Sookhak, M., Department of Computer Science, Texas A&M University-Corpus Christi, Corpus Christi, TX, United States; Tiwari, P., Department of Computer Science, Aalto University, Espoo, Finland; Kumar, N., CSED, Thapar Institute of Engineering and Technology, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	International Journal of Communication Systems	2023	10745351
7613	Method for Fault Diagnosis and Speed Control of PMSM	Ghosh S.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Computer Systems Science and Engineering	2023	2676192
7614	Schizo-Net: A novel Schizophrenia Diagnosis Framework Using Late Fusion Multimodal Deep Learning on Electroencephalogram-Based Brain Connectivity Indices	Grover N., Chharia A., Upadhyay R., Longo L.	Grover, N., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Chharia, A., Thapar Institute of Engineering and Technology, Department of Mechanical Engineering, Punjab, Patiala, 147004, India; Upadhyay, R., Thapar Institute of Engineering and Technology, Department of Electronics and Communication Engineering, Punjab, Patiala, 147004, India; Longo, L., Technological University Dublin, Artificial Intelligence and Cognitive Load Research Laboratory, Applied Intelligence Research Centre, School of Computer Science Dublin 7 D07 EWV4, Ireland	IEEE Transactions on Neural Systems and Rehabilitation Engineering	2023	15344320
7615	SecBoost: Secrecy-Aware Deep Reinforcement Learning Based Energy-Efficient Scheme for 5G HetNets	Sharma H., Kumar N., Tekchandani R.K.	Sharma, H., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Kumar, N., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Tekchandani, R.K., Computer Science & Engineering Department, Thapar Institute of Engineering and Technology, Patiala, Punjab, India	IEEE Transactions on Mobile Computing	2023	15361233
7616	High order coupled microring resonator filters for on-chip optical interconnects with steep edge response	Mehandiratta G., Kaler R.S.	Mehandiratta, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kaler, R.S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Fiber and Integrated Optics	2023	1468030
7617	Fabrication of efficient aluminium/graphene nanosheets (Al-GNP) composite by powder metallurgy for strength applications	Khanna V., Kumar V., Bansal S.A., Prakash C., Ubaidullah M., Shaikh S.F., Pramanik A., Basak A., Shankar S.	Khanna, V., Department of Mechanical Engineering, MAIT, Maharaja Agrasen University, Himachal Pradesh 174103, India; Kumar, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Bansal, S.A., Department of Mechanical Engineering, MAIT, Maharaja Agrasen University, Himachal Pradesh 174103, India, Department of Mechanical Engineering, Bharat Institute of Engineering and Technology, Division of Research Innovation, Uttaranchal University, Dehradun, Mangalpally, Ibrahimpatnam, Hyderabad, Telangana, India; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, 144411, India; Ubaidullah, M., Department of Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh, 11451, Saudi Arabia; Shaikh, S.F., Department of Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh, 11451, Saudi Arabia; Pramanik, A., School of Civil and Mechanical Engineering, Curtin University, Perth, WA, Australia; Basak, A., Adelaide Microscopy, The University of Adelaide, Adelaide, SA 5000, Australia; Shankar, S., Department of Mechatronics Engineering, Kongu Engineering College, Erode, India	Journal of Materials Research and Technology	2023	22387854
7618	Entropy Generation and Regression Analysis of Magnetohydrodynamic Stagnation Point Flow of a Casson Fluid with Radiative and Dissipative Heat Transfer and Hall Effects	Prashu, Nandkeolyar R., Kumar P., Sinha V.K., Sangwan V.	Prashu, School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Nandkeolyar, R., Department of Mathematics, National Institute of Technology Jamshedpur, Jamshedpur, 831014, India; Kumar, P., Department of Mathematics, National Institute of Technology Jamshedpur, Jamshedpur, 831014, India; Sinha, V.K., Department of Mathematics, Swargiya Bishwanath Singh Sharma Coll. (A Constituent U. of Lalit Narayan Mithila Univ., Darbhanga), Begusarai, 851101, India; Sangwan, V., School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, 147004, India	Mathematical Problems in Engineering	2023	1024123X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7619	An adaptive medical image registration using hybridization of teaching learning-based optimization with affine and speeded up robust features with projective transformation	Arora P., Mehta R., Ahuja R.	Arora, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mehta, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Ahuja, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Cluster Computing	2023	13867857
7620	On the Iterative Multivalued L-Preserving Mappings and an Application to Fractional Differential Equation	Nazam M., Chandok S., Hussain A., Sulmi H.H.A.	Nazam, M., Department of Mathematics, Allama Iqbal Open University, H-8, Islamabad, 44000, Pakistan; Chandok, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Hussain, A., Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah, 21589, Saudi Arabia; Sulmi, H.H.A., Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah, 21589, Saudi Arabia	Axioms	2023	20751680
7621	A Novel Approach for Minimizing Processing Times of Three-Stage Flow Shop Scheduling Problems under Fuzziness	Alburaikan A., Garg H., Khalifa H.A.E.-W.	Alburaikan, A., Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya, 51951, Saudi Arabia; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology (Deemed University), Punjab, Patiala, 147004, India, Department of Mathematics, Graphic Era Deemed to be University, Uttarakhand, Dehradun, 248002, India, Applied Science Research Center, Applied Science Private University, Amman, 11931, Jordan; Khalifa, H.A.E.-W., Department of Mathematics, College of Science and Arts, Qassim University, Al-Badaya, 51951, Saudi Arabia, Department of Operations and Management Research, Faculty of Graduate Studies for Statistical Research, Cairo University, Giza, 12613, Egypt	Symmetry	2023	20738994
7622	Heat pipes for PEM fuel cell cooling: State of the art review	Singh R., Singh Oberoi A., Singh T.	Singh, R., Mechanical Engineering Department, Punjabi University, Punjab, Patiala, 147002, India; Singh Oberoi, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, T., Mechanical Engineering Department, Punjabi University, Punjab, Patiala, 147002, India	Materials Today: Proceedings	2023	22147853
7623	Reconstruction of Szász-Mirakyan operators preserving exponential type functions	Goyal M.	Goyal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, Patiala, 147004, India	Filomat	2023	3545180
7624	Mathematical and Numerical Modelling of Interference of Immune Cells in the Tumour Environment	Sinha S., Singh P., Koksal M.E.	Sinha, S., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Singh, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, India; Koksal, M.E., Department of Mathematics, Ondokuz Mayıs University, Samsun, Turkey, Department of Applied Mathematics, University of Twente, Enschede, Netherlands	Discrete Dynamics in Nature and Society	2023	10260226
7625	Compressive Strength Estimation of Waste Marble Powder Incorporated Concrete Using Regression Modelling	Singh M., Choudhary P., Bedi A.K., Yadav S., Chhabra R.S.	Singh, M., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, 140412, India; Choudhary, P., Department of Computer Science and Engineering, Indian Institute of Technology, Roopnagar, 335073, India; Bedi, A.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, 140412, India; Yadav, S., Birla Institute of Technology, Pilani, 333031, India; Chhabra, R.S., Indian Institute of Technology, Roorkee, 247665, India	Coatings	2023	20796412
7626	LBP-Based CAD System Designs for Breast Tumor Characterization	Kriti, Virmani J., Agarwal R.	Kriti, DIT University, Uttarakhand, Dehradun, India; Virmani, J., CSIR-Central Scientific Instruments Organisation (CSIR-CSIO), Chandigarh, India; Agarwal, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	EAI/Springer Innovations in Communication and Computing	2023	25228595
7627	Investigation and enhancement of mechanical properties of SS-316 weldment using TiO2-SiO2-Al2O3 hybrid flux	Kumar A., Babbar A., Jain V., Gupta D., Pathri B.P., Prakash C., Saxena K.K., Kumar S.	Kumar, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Babbar, A., Department of Mechanical Engineering, SGT University, Haryana, Gurugram, 122505, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Pathri, B.P., School of Technology, Woxsen University, Hyderabad, 502345, India; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, 144411, India; Saxena, K.K., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, 144411, India; Kumar, S., Division of Research & Innovation, Uttaranchal University, Uttarakhand, Dehradun, 248007, India	International Journal on Interactive Design and Manufacturing	2023	19552513
7628	Targets' Coping Responses to Workplace Bullying with Moderating Role of Perceived Organizational Tolerance: A Two-Phased Study of Faculty in Higher Education Institutions	Levia, Kaur G.	Levia, School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kaur, G., School of Humanities and Social Sciences, Thapar Institute of Engineering and Technology, Patiala, 147001, India	International Journal of Environmental Research and Public Health	2023	16617827
7629	Applications and Challenges in Healthcare Big Data: A Strategic Review	Khanna D., Jindal N., Singh H., Rana P.S.	Khanna, D., Department of Electronics and Communication Engineering, Thapar University, Punjab, Patiala, India; Jindal, N., Department of Electronics and Communication Engineering, Thapar University, Punjab, Patiala, India; Singh, H., Department of Computer Science Engineering, Thapar University, Patiala, India; Rana, P.S., Department of Computer Science Engineering, Thapar University, Patiala, India	Current Medical Imaging	2023	15734056

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7630	Molecular-engineering of Tb2O3@TiO2 complexes sensitized with N719 dye photoanodes and evaluation of their realistic efficiencies in DSSC systems	Kaur M., Kumar S., Singh R., Verma N.K., Kumar V., Younis S.A., Kim K.-H.	Kaur, M., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India, Applied Sciences Department, Chandigarh College of Engineering and Technology, Degree Wing, Sector-26, Chandigarh, 160 019, India; Kumar, S., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India, Department of Physics, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140 407, India; Singh, R., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Verma, N.K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Kumar, V., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, 147 004, India; Younis, S.A., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 133-791, South Korea, Analysis and Evaluation Department, Egyptian Petroleum Research Institute (EPRI), Cairo, Nasr City, 11727, Egypt; Kim, K.-H., Department of Civil and Environmental Engineering, Hanyang University, 222 Wangsimni-Ro, Seoul, 133-791, South Korea	Journal of Materials Science: Materials in Electronics	2023	9574522
7631	Significance of radiant-energy and multiple slips on magnetohydrodynamic flow of single-walled carbon nanotube-water, titanium dioxide-water, multiwalled carbon nanotube-water, graphene oxide-water nanofluids	Singla T., Sharma S., Kumar B.	Singla, T., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kumar, B., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2023	9544089
7632	Characterization of mechanical and metallurgical properties of AA6063 foam developed by friction stir precursor deposition technique	Kumar M., Singh R.K.R., Jain V.	Kumar, M., Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, R.K.R., Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Jain, V., Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Adhesion Science and Technology	2023	1694243
7633	Framework of Geofence Service using Dummy Location Privacy Preservation in Vehicular Cloud Network	Al-Balasmeh H., Singh M., Singh R.	Al-Balasmeh, H., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Singh, M., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, India; Singh, R., School of Computing, Engineering, and Physical Sciences, University of the West of Scotland, United Kingdom	International Arab Journal of Information Technology	2023	16833198
7634	Numerically stable iterative methods for computing matrix sign function	Rani L., Kansal M.	Rani, L., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kansal, M., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mathematical Methods in the Applied Sciences	2023	1704214
7635	Utilization of Construction and Demolition Mix Waste in the Fired Brick Production: The Impact on Mechanical Properties	Dubale M., Vasić M.V., Goel G., Kalamdhad A., Singh L.B.	Dubale, M., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, 781039, India; Vasić, M.V., Institute for Testing of Materials IMS, Bulevar Vojvode Mišića 43, Belgrade, 11000, Serbia; Goel, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kalamdhad, A., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, 781039, India; Singh, L.B., Department of Civil Engineering, Indian Institute of Technology Guwahati (IITG), Guwahati, 781039, India	Materials	2023	19961944
7636	The scavenging mechanism of aminopyrines towards hydroxyl radical: A computational mechanistic and kinetics investigation	Kaur C., Mandal D.	Kaur, C., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India; Mandal, D., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147001, India	Computational and Theoretical Chemistry	2023	2210271X
7637	Adaptive federated learning scheme for recognition of malicious attacks in an IoT network	Chhikara P., Tekchandani R., Kumar N.	Chhikara, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Tekchandani, R., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Faculty of Computing and IT, King Abdulaziz University, Jeddah, Saudi Arabia	Computing	2023	0010485X
7638	Parameter Estimation of Different Photovoltaic Models Using Hybrid Particle Swarm Optimization and Gravitational Search Algorithm	Gupta J., Hussain A., Singla M.K., Nijhawan P., Haider W., Kotb H., AboRas K.M.	Gupta, J., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Hussain, A., Department of Electrical and Computer Engineering, Sungkyunkwan University, Suwon, 16419, South Korea; Singla, M.K., Electrical Engineering Department, Farid College of Engineering and Technology, Bathinda, Baba, 151001, India; Nijhawan, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Haider, W., Department of Electrical and Computer Engineering, Sungkyunkwan University, Suwon, 16419, South Korea; Kotb, H., Department of Electrical Power and Machines, Faculty of Engineering, Alexandria University, Alexandria, 21544, Egypt; AboRas, K.M., Department of Electrical Power and Machines, Faculty of Engineering, Alexandria University, Alexandria, 21544, Egypt	Applied Sciences (Switzerland)	2023	20763417

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7639	Automated Schizophrenia detection using local descriptors with EEG signals	Kumar T.S., Rajesh K.N.V.P.S., Maheswari S., Kanhangad V., Acharya U.R.	Kumar, T.S., eMedia Research Lab, KU Leuven, Belgium; Rajesh, K.N.V.P.S., School of Electronics Engineering, VIT-AP University, Vijayawada, India; Maheswari, S., Electronics and Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kanhangad, V., Department of Electrical Engineering, IIT Indore, Indore, India; Acharya, U.R., School of Engineering, Ngee Ann Polytechnic, Singapore, Department of Biomedical Engineering, SUSS University, Singapore, Department of Biomedical Informatics and Medical Engineering, Asia University, Taiwan	Engineering Applications of Artificial Intelligence	2023	9521976
7640	SMES-GCSC Coordination for Frequency and Voltage Regulation in a Multi-Area and Multi-Source Power System with Penetration of Electric Vehicles and Renewable Energy Sources	Shukla H., Nikolovski S., Raju M., Rana A.S., Kumar P.	Shukla, H., Electrical Engineering Department, Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Nikolovski, S., Power Engineering Department, Faculty of Electrical Engineering, Computer Science and Information Technology, J. J. Strossmayer University of Osijek, K. Trpimira 2B, Osijek, HR-31000, Croatia; Raju, M., Electrical Engineering Department, Maulana Azad National Institute of Technology Bhopal, Bhopal, 462003, India; Rana, A.S., Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli, Tiruchirappalli, 620015, India; Kumar, P., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Energies	2023	19961073
7641	Blockchain and artificial intelligence-empowered smart agriculture framework for maximizing human life expectancy	Jadav N.K., Rathod T., Gupta R., Tanwar S., Kumar N., Alkhayyat A.	Jadav, N.K., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Rathod, T., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Gupta, R., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Tanwar, S., Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Faculty of Computing and IT, King Abdul Aziz University, Jeddah, Saudi Arabia, Department of Computer Science and Engineering, University of Petroleum & Energy Studies, Uttarakhand, Dehradun, India; Alkhayyat, A., College of technical engineering, The Islamic university, Najaf, Iraq	Computers and Electrical Engineering	2023	457906
7642	Experimental assessment of nanoclay effect on hardness, tensile and flexural properties of glass fiber/epoxy laminates	Verma R., Sharma B., Kanwar Singh M., Rathore S.S., Kaur H.	Verma, R., Department of Mechanical Engineering, Thapar Polytechnic College, Punjab, India; Sharma, B., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, India; Kanwar Singh, M., Department of Mechanical Engineering, Shri Vishwakarma Skill University, Haryana, India; Rathore, S.S., Department of Mechanical Engineering, Shri Vishwakarma Skill University, Haryana, India; Kaur, H., Pt. Deendayal Upadhyaya National Institute For Persons with Physical Disabilities, New Delhi, India	Materials Today: Proceedings	2023	22147853
7643	Forecasting Southwest Indian Monsoon Rainfall Using the Beta Seasonal Autoregressive Moving Average (β SARMA) Model	Shad M., Sharma Y.D., Narula P.	Shad, M., Department of Mathematics and Scientific Computing, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Sharma, Y.D., Department of Mathematics and Scientific Computing, National Institute of Technology, Himachal Pradesh, Hamirpur, 177005, India; Narula, P., School of Mathematics, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Pure and Applied Geophysics	2023	334553
7644	Process Competencies of Modulation-Assisted Machining	Singh M., Dhiman S., Singh H., Berndt C.C.	Singh, M., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Roopnagar, India, Department of Mechanical Engineering and Product Design Engineering, Surface Engineering for Advanced Materials, Swinburne University of Technology, Hawthorn, VIC, Australia; Dhiman, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, H., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Roopnagar, India; Berndt, C.C., Department of Mechanical Engineering and Product Design Engineering, Surface Engineering for Advanced Materials, Swinburne University of Technology, Hawthorn, VIC, Australia	Lecture Notes in Mechanical Engineering	2023	21954356
7645	Exploring Potential of Aspergillus sclerotiorum: Secondary Metabolites and Biotechnological Relevance	Ibrahim S.R.M., Abdallah H.M., Mohamed G.A., Deshmukh S.K.	Ibrahim, S.R.M., Department of Chemistry, Preparatory Year Program, Batterjee Medical College, Jeddah, 21442, Saudi Arabia, Department of Pharmacognosy, Faculty of Pharmacy, Assiut University, Assiut, 71526, Egypt; Abdallah, H.M., Department of Natural Products and Alternative Medicine, Faculty of Pharmacy, King Abdulaziz University, Jeddah, 21589, Saudi Arabia, Department of Pharmacognosy, Faculty of Pharmacy, Cairo University, Cairo, 11562, Egypt; Mohamed, G.A., Department of Natural Products and Alternative Medicine, Faculty of Pharmacy, King Abdulaziz University, Jeddah, 21589, Saudi Arabia; Deshmukh, S.K., Research & Development Division, Greenvention Biotech Pvt. Ltd., Uruli-Kanch, Maharashtra 412202, India, Agpharm Bioinnovations LLP, Incubatee: Science and Technology Entrepreneurs Park (STEP), Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Mycological Progress	2023	1617416X
7646	Electrical behavior of plant based material	Sharma S., Rastogi M., Rai D.V., Singh N., Sharma G., Singh K.	Sharma, S., Department of Biomedical Engineering, School of Biological Engineering and Life Sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Modipuram, 250001, India; Rastogi, M., Department of Biomedical Engineering, School of Biological Engineering and Life Sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Modipuram, 250001, India; Rai, D.V., Department of Biomedical Engineering, School of Biological Engineering and Life Sciences, Shobhit Institute of Engineering and Technology (Deemed to be University), Meerut, Modipuram, 250001, India; Singh, N., Department of Electronics & Communication Engineering, Manipal University, Jaipur, India; Sharma, G., School of Physics and Material Science, Thapar University, Patiala, 14700, India; Singh, K., School of Physics and Material Science, Thapar University, Patiala, 14700, India	Materials Today: Proceedings	2023	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7647	NOMA—Non-offensive Messaging Application Framework Using Machine Learning Technique for Online Communication Through Social Media	Brar G., Sharma G., Singh P., Gupta N., Kalra N., Parashar A.	Brar, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, G., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, P., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kalra, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Parashar, A., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Smart Innovation, Systems and Technologies	2023	21903018
7648	Influence of ultrasonic vibrations during drilling of carbon-fiber-reinforced polyetherimide composites	Shard A., Agarwal R., Gupta V., Garg M.P.	Shard, A., Department of Mechanical Engineering, DAV University, Punjab, Jalandhar, 144001, India; Agarwal, R., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Gupta, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Garg, M.P., Department of Mechanical Engineering, DAV University, Punjab, Jalandhar, 144001, India	Applied Acoustics	2023	0003682X
7649	Obesity and Alzheimer's: An attempt to decipher the role of obesity in blood-brain barrier degradation	Jain A., Roy P.	Jain, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Roy, P., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Chaos, Solitons and Fractals	2023	9600779
7650	DevOps Tools: Silver Bullet for Software Industry	Srivastava D., Verma M., Sheshar S., Gupta M.	Srivastava, D., CSET, Bennett University, Uttar Pradesh, Greater Noida, India; Verma, M., CSET, Bennett University, Uttar Pradesh, Greater Noida, India; Sheshar, S., CSED, Thapar University, Punjab, Patiala, India; Gupta, M., CSET, Bennett University, Uttar Pradesh, Greater Noida, India	Studies in Computational Intelligence	2023	1860949X
7651	A Note on "Parameter Estimation and Optimization of Multi-objective Capacitated Stochastic Transportation Problem for Gamma Distribution"	Bhatia T.K., Kumar A., Appadoo S.S.	Bhatia, T.K., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology (Deemed to Be University), Patiala, 147004, India; Appadoo, S.S., Department of Supply Chain Management, Asper School of Business, University of Manitoba, Winnipeg, Canada	Studies in Fuzziness and Soft Computing	2023	14349922
7652	Analysis of a high speed low-torque variable displacement hydro-motor efficiency at different displacement conditions	Pandey A.K., Kumar A., Tripathi J.P., Ehtesham Hasan M.	Pandey, A.K., Department of Mechanical Engineering, National Institute of Technology Patna, Bihar, India; Kumar, A., Department of Mechanical Engineering, National Institute of Technology Patna, Bihar, India; Tripathi, J.P., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology Patiala, Punjab, India; Ehtesham Hasan, M., Department of Mechanical Engineering, Kalinga Institute of Industrial Technology, Odisha, Bhubaneswar, India	Materials Today: Proceedings	2023	22147853
7653	Feasibility study of a 3D printed BLDC outrunner rotor	Akula V.S.R.P., Goyal K.K., Verma O.P., Gupta V.	Akula, V.S.R.P., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, 144027, India; Goyal, K.K., Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, 144027, India; Verma, O.P., Department of Instrumentation and Control Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, 144027, India; Gupta, V., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology Patiala, 147004 Punjab, India	Materials Today: Proceedings	2023	22147853
7654	The SLP estimation of the nanoparticle systems using size-dependent magnetic properties for the magnetic hyperthermia therapy	Nain S., Kumar N., Chudasama B., Kumar Avti P.	Nain, S., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India, TIET-Virginia Tech Center of Excellence in Emerging Materials, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Chudasama, B., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar Avti, P., Department of Biophysics, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India	Journal of Magnetism and Magnetic Materials	2023	3048853
7655	Design of low complexity parallel polyphase finite impulse response filter using coefficient symmetry	Rao K.A., Kumar A., Kaplun D., Patel S.K., Purohit N.	Rao, K.A., Department of Electronics and Communication Engineering, Indian Institute of Information Technology, Uttar Pradesh, Allahabad, India; Kumar, A., Department of Automation and Control Processes, St. Petersburg Electrotechnical University "LETI", St. Petersburg, Russian Federation; Kaplun, D., Department of Automation and Control Processes, St. Petersburg Electrotechnical University "LETI", St. Petersburg, Russian Federation; Patel, S.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Purohit, N., Department of Electronics and Communication Engineering, Indian Institute of Information Technology, Uttar Pradesh, Allahabad, India	IET Circuits, Devices and Systems	2023	1751858X
7656	Process parameters and their effect on the structure and morphology of gadolinium-doped ceria	Kaur T., Singh K., Kolte J.	Kaur, T., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, K., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kolte, J., School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Materials Today: Proceedings	2023	22147853

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7657	Impact of ABCB1, ABCC1, ABCC2, and ABCG2 variants in predicting prognosis and clinical outcomes of north Indian lung cancer patients undergoing platinum-based doublet chemotherapy	Sharma P., Singh N., Sharma S.	Sharma, P., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India; Singh, N., Department of Pulmonary Medicine, Post Graduate Institute of Medical Education & Research, Chandigarh, India; Sharma, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	Journal of Gene Medicine	2023	1099498X
7658	Comparative Analysis of Object Detection Models for the Detection of Multiple Face Masks	Kapoor S., Kumar M., Kaushal M.	Kapoor, S., UIET, Panjab University, Chandigarh, India; Kumar, M., UIET, Panjab University, Chandigarh, India; Kaushal, M., TIET, Thapar University, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7659	An Exploration of Machine Learning and Deep Learning Techniques for Offensive Text Detection in Social Media—A Systematic Review	Sharma G., Brar G.S., Singh P., Gupta N., Kalra N., Parashar A.	Sharma, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Brar, G.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singh, P., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Gupta, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Kalra, N., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Parashar, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7660	Human-Computer Interaction Using Deep Fusion Model-Based Facial Expression Recognition System	Umer S., Rout R.K., Tiwari S., AlZubi A.A., Alanazi J.M., Yurii K.	Umer, S., Department of Computer Science & Engineering, Aliah University, Kolkata, 700156, India; Rout, R.K., Department of Computer Science and Engineering, National Institute of Technology, Jammu and Kashmir, Srinagar, 190006, India; Tiwari, S., Department of Computer Science & Engineering, Thapar University, Patiala, 147004, India; AlZubi, A.A., Computer Science Department, King Saud University, Riyadh, 11451, Saudi Arabia; Alanazi, J.M., Computer Science Department, King Saud University, Riyadh, 11451, Saudi Arabia; Yurii, K., Department of Computer Engineering, National Technical University of Ukraine, Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, 03056, Ukraine	CMES - Computer Modeling in Engineering and Sciences	2023	15261492
7661	Technological advancements in valorisation of industrial effluents employing hydrothermal liquefaction of biomass: Strategic innovations, barriers and perspectives	Rout P.R., Goel M., Pandey D.S., Briggs C., Sundramurthy V.P., Halder N., Mohanty A., Mukherjee S., Varjani S.	Rout, P.R., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Goel, M., Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom; Pandey, D.S., Center for Rural Development and Innovative Sustainable Technology, Indian Institute of Technology Kharagpur, West Bengal, India; Briggs, C., Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield, United Kingdom; Sundramurthy, V.P., College of Biological and Chemical Engineering, Addis Ababa Science and Technology University, Ethiopia; Halder, N., Department of Biotechnology, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Mohanty, A., Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India; Mukherjee, S., Energy Systems Catapult, Birmingham, United Kingdom; Varjani, S., Gujarat Pollution Control Board, Gujarat, Gandhinagar, 382 010, India	Environmental Pollution	2023	2697491
7662	Design of polymer-plasticizer-solvent films: Effects of initial and operating parameters on the residual solvent and film properties	Rawat M., Ahuja S.	Rawat, M., Department of Chemical Engineering, Thapar Institute of Engineering & Technology (Deemed to be University), Punjab, Patiala, India; Ahuja, S.	Drying Technology	2023	7373937
7663	Power efficient multiplier using Vedic algorithm and self bias transistor technique	Choudhary K., Jadav S., Tayal S., Kaur P., Rai L., Sharma R.	Choudhary, K., Electronics Engineering Department, JC Bose University of Science & Technology YMCA, Faridabad, India; Jadav, S., Electronics Engineering Department, JC Bose University of Science & Technology YMCA, Faridabad, India; Tayal, S., Electronics & Communication Engineering Department, SR University, Warangal, India; Kaur, P., Electronics Engineering Department, JC Bose University of Science & Technology YMCA, Faridabad, India; Rai, L., Electronics Engineering Department, JC Bose University of Science & Technology YMCA, Faridabad, India; Sharma, R., Electronics & Communication Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Electronics	2023	207217
7664	Institutional work to navigate ethical dilemmas: Evidence from a social enterprise	Hota P.K., Bhatt B., Qureshi I.	Hota, P.K., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Patiala, India, Research School of Management, Australian National University, Canberra, ACT, Australia; Bhatt, B., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Qureshi, I., LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Business Venturing	2023	8839026
7665	Modeling and Control of Induction Machine and Drive in the Combined Domain with New Chaotic Gorilla Troop Optimizer	Chaudhary R., Ganguli S.	Chaudhary, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Networks and Systems	2023	23673370

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7666	AgrIntel: Spatio-temporal profiling of nationwide plant-protection problems using helpline data	Godara S., Toshniwal D., Bana R.S., Singh D., Bedi J., Parsad R., Dabas J.P.S., Jhahhria A., Godara S., Kumar R., Marwaha S.	Godara, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India, Indian Institute of Technology Roorkee, Uttarakhand, India; Toshniwal, D., Indian Institute of Technology Roorkee, Uttarakhand, India; Bana, R.S., ICAR-Indian Agricultural Research Institute, New Delhi, India; Singh, D., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Bedi, J., Thapar Institute of Engineering and Technology, Patiala, India; Parsad, R., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Dabas, J.P.S., ICAR-Indian Agricultural Research Institute, New Delhi, India; Jhahhria, A., ICAR-National Institute of Agricultural Economics and Policy Research, New Delhi, India; Godara, S., Forest Research Institute, Uttarakhand, India; Kumar, R., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India; Marwaha, S., ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India	Engineering Applications of Artificial Intelligence	2023	9521976
7667	Abatement of paraquat contaminated water using solar assisted heterogeneous photo-Fenton like treatment with iron-containing industrial wastes as catalysts	Pandey Y., Verma A., Toor A.P.	Pandey, Y., Energy Research Centre, Panjab University, Chandigarh, India; Verma, A., Thapar Institute of Engg. & Technology, Punjab, Patiala, India; Toor, A.P., Energy Research Centre, Panjab University, Chandigarh, India, Dr. SSB University Institute of Chemical Engg & Technology, Panjab University, Chandigarh, India	Journal of Environmental Management	2023	3014797
7668	Eu-doped BaTiO3 perovskite as an efficient electrocatalyst for oxygen evolution reaction	Tanwar N., Upadhyay S., Priya R., Pundir S., Sharma P., Pandey O.P.	Tanwar, N., Department of Physics, Chandigarh University, Punjab, Mohali, 140413, India; Upadhyay, S., Functional Materials Lab, School of Physics and Material Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India, Division of Research & Innovation, Uttarakhand University, Dehradun, 248007, India; Priya, R., Department of Physics, Chandigarh University, Punjab, Mohali, 140413, India; Pundir, S., Department of Physics, Chandigarh University, Punjab, Mohali, 140413, India; Sharma, P., TIET-VT Centre of Excellence in Emerging Materials, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Pandey, O.P., Functional Materials Lab, School of Physics and Material Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	Journal of Solid State Chemistry	2023	224596
7669	A comprehensive review on variants of SARS-CoVs-2: Challenges, solutions and open issues	Deepanshi, Budhiraja I., Garg D., Kumar N., Sharma R.	Deepanshi, School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, India; Budhiraja, I., School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, India; Garg, D., School of Computer Science Engineering and Technology, Bennett University, Uttar Pradesh, India; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon, School of Computer Science, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, Faculty of Computing and IT, King Abdul Aziz University, Jeddah, Saudi Arabia; Sharma, R., Department of Electronics & Communication Engineering, SRM Institute of Science and Technology, NCR Campus, Modinagar, UP, Ghaziabad, India	Computer Communications	2023	1403664
7670	Effect of sucrose on shoot organogenesis of potato (Solanum tuberosum L.) cvs. 'Kufri Pukhraj' and 'Kufri Chipsona 1' and related biochemical and molecular activities	Guleria S., Kumar A.	Guleria, S., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India; Kumar, A., Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering and Technology, Patiala, 147001, India	Plant Cell, Tissue and Organ Culture	2023	1676857
7671	A Review of Smart Condition Monitoring System for Gearbox	Singh Lamba M., Singh A., Ramkumar J.	Singh Lamba, M., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, India; Ramkumar, J., Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, India	Lecture Notes in Mechanical Engineering	2023	21954356
7672	Influence of Concrete Electrical Resistivity on the Polarization Performance of an ICCP System for a Reinforced Concrete Structure: A Numerical Study	Goyal A.	Goyal, A., Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Lecture Notes in Civil Engineering	2023	23662557
7673	A Review on Community Detection Using Deep Neural Networks with Enhanced Learning	Sikarwar R., Singh S.S., Shakya H.K.	Sikarwar, R., Department of Computer Science and Engineering, Amity University, Madhya Pradesh, Gwalior, 474005, India, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, S.S., Department of Computer Science and Engineering, Amity University, Madhya Pradesh, Gwalior, 474005, India, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Shakya, H.K., Department of Computer Science and Engineering, Amity University, Madhya Pradesh, Gwalior, 474005, India, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Networks and Systems	2023	23673370
7674	Design of Steel Intensive Quarantine Centre	Chawla H., Kumar N., Arora A.	Chawla, H., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Kumar, N., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Arora, A., Civil Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Civil Engineering	2023	23662557

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7675	A Vertical Handover Approach Using GTMA in Wireless Networks	Kaur G., Kumar Goyal R., Mehta R.	Kaur, G., Thapar Institute of Engineering and Technology, Patiala, India; Kumar Goyal, R., Thapar Institute of Engineering and Technology, Patiala, India; Mehta, R., Thapar Institute of Engineering and Technology, Patiala, India	Lecture Notes in Networks and Systems	2023	23673370
7676	An Insight on Latest Technologies of Cyber Security	Bansal A., Goel R., Sharma S., Verma K., Bhushan M., Kumar A.	Bansal, A., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Goel, R., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Sharma, S., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India; Verma, K., Thapar Institute of Engineering and Technology, Deemed to Be University, Punjab, Patiala, India; Bhushan, M., School of Computing, DIT University, Dehradun, India; Kumar, A., School of Computer Application, Lovely Professional University, Punjab, Phagwara, India	Lecture Notes in Networks and Systems	2023	23673370
7677	Optimization of Clinker Factor for Low-Carbon Penta-Blended Cement Mortar via Box-Behnken Design of Response Surface Methodology	Anurag, Kumar R.	Anurag, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Kumar, R., Organic Building Materials (OBM) Group, CSIR-Central Building Research Institute, Roorkee, 247667, India	Lecture Notes in Civil Engineering	2023	23662557
7678	Dynamic Topology Optimization of a Stair Climbing Spline Wheel	Dhankhar A., Verma A., Ramkumar J.	Dhankhar, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Verma, A., Department of Design, Indian Institute of Technology Kanpur, Kanpur, India; Ramkumar, J., Department of Design, Indian Institute of Technology Kanpur, Kanpur, India, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, Kanpur, India	Lecture Notes in Mechanical Engineering	2023	21954356
7679	Heat Transfer and Flow Analysis in a Circular Tube Equipped with Triangular Helical Strip Inserts Under Turbulent Flow Conditions for the Application of Boiler	Adgale T., Zainith P., Mishra N.K., Sharma A.	Adgale, T., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, 246174, India; Zainith, P., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, 246174, India; Mishra, N.K., Department of Mechanical Engineering, National Institute of Technology Uttarakhand, Garhwal, Srinagar, 246174, India; Sharma, A., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India	International Journal of Thermophysics	2023	0195928X
7680	The opportunistic nature of gut commensal microbiota	Dey P., Ray Chaudhuri S.	Dey, P., Department of Biotechnology, Thapar Institute of Engineering and Technology, Patiala, India; Ray Chaudhuri, S., Council of Scientific and Industrial Research (CSIR), Institute of Microbial Technology, Chandigarh, India	Critical Reviews in Microbiology	2023	1040841X
7681	Substitution of carbonate by non-physiological synergistic anion modulates the stability and iron release kinetics of serum transferrin	Kumar R., Sharma D., Kumar N., Kumari B., Shabnam, Kumar S.	Kumar, R., Department of Chemistry, School of Basic Sciences, Central University of Punjab, Bathinda, Ghudda, 151401, India, School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Sharma, D., Council of Scientific and Industrial Research—Institute of Microbial Technology, Sector 39A, Chandigarh, India; Kumar, N., Council of Scientific and Industrial Research—Institute of Microbial Technology, Sector 39A, Chandigarh, India; Kumari, B., Department of Chemistry, School of Basic Sciences, Central University of Punjab, Bathinda, Ghudda, 151401, India; Shabnam, Department of Chemistry, School of Basic Sciences, Central University of Punjab, Bathinda, Ghudda, 151401, India; Kumar, S., Department of Chemistry, School of Basic Sciences, Central University of Punjab, Bathinda, Ghudda, 151401, India	Biochimica et Biophysica Acta - Proteins and Proteomics	2023	15709639
7682	New memristor-less, resistor-less, two-OTA based grounded and floating meminductor emulators and their applications in chaotic oscillators	Aggarwal B., Rai S.K., Sinha A.	Aggarwal, B., ECED, Netaji Subhas University of Technology, New Delhi, India; Rai, S.K., ECED, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sinha, A., ECED, Netaji Subhas University of Technology, New Delhi, India	Integration	2023	1679260
7683	Assessing the impact of global initiatives on current and future land restoration scenarios in India	Edrisi S.A., Bundela A.K., Verma V., Dubey P.K., Abhilash P.C.	Edrisi, S.A., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Bundela, A.K., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India; Verma, V., Thapar School of Liberal Arts & Sciences, Thapar Institute of Engineering & Technology, Punjab, Patiala, 147004, India; Dubey, P.K., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India; Abhilash, P.C., Institute of Environment & Sustainable Development, Banaras Hindu University, Uttar Pradesh, Varanasi, 221005, India	Environmental Research	2023	139351
7684	Investigation of norms of overpartitions	Kumar A.	Kumar, A., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India, California Institute of Technology, Pasadena, CA 91125, United States	Ramanujan Journal	2023	13824090
7685	A novel modified Kock-Snowflake fractal MIMO antenna for 4G/5G UWB communication gadgets	Sohi A.K., Kaur A.	Sohi, A.K., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Microwave and Optical Technology Letters	2023	8952477
7686	Fractional System Modeling of Liquid-Liquid Heat Exchanger Using Various Optimization Techniques	Mehta R., Singla S.K., Sondhi S.	Mehta, R., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singla, S.K., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Sondhi, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2023	21954356

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7687	A Hybrid Gray Wolf Optimizer for Modeling and Control of Permanent Magnet Synchronous Motor Drives	Ganguli S., Kaur G., Sarkar P.	Ganguli, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, 147004, Punjab, Patiala, India; Kaur, G., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, 147004, Punjab, Patiala, India; Sarkar, P., Department of Electrical Engineering, National Institute of Technical Teachers' Training and Research, 700106, West Bengal, Kolkata, India	Lecture Notes in Networks and Systems	2023	23673370
7688	An Integrated FCEM-AHP Approach for Borrower's Satisfaction and Perception Analysis of Microfinance Institution	Hassan M., Iqbal S., Garg H., Hassan S.G., Yan Y.	Hassan, M., College of Agriculture Economics and Management, Jilin Agricultural University, Changchun, 130118, China; Iqbal, S., School of Economics and Statistics, Guangzhou University, Guangzhou, 510006, China; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Patiala, 147004, India; Hassan, S.G., College of Information Science and Technology, Zhongkai University of Agriculture and Engineering, Guangzhou, 510225, China; Yan, Y., College of Agriculture Economics and Management, Jilin Agricultural University, Changchun, 130118, China	CMES - Computer Modeling in Engineering and Sciences	2023	15261492
7689	Heuristic Controller Design for Inverted Pendulum Using Bond Graph Approach	Kumar A., Singh R., Bera T.K., Singla A.	Kumar, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singh, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bera, T.K., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Singla, A., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Lecture Notes in Mechanical Engineering	2023	21954356
7690	Predictive Modeling of Surface Roughness Using Machine and Deep Learning Frameworks from Experimental Data of Chemically Etched Polished Silicon Wafer with DDMAF	Pandey K., Singh A.K.	Pandey, K., Amity University Uttar Pradesh, AUUP Noida, Lucknow Campus, Noida, India; Singh, A.K., Thapar University, Patiala, India	Lecture Notes in Mechanical Engineering	2023	21954356
7691	Microbial remediation of ibuprofen contaminated water using novel isolate Microbacterium paraoxydans	Show S., Sarkar P., Barman S., Halder G.	Show, S., Chemical Engineering Department, National Institute of Technology Durgapur, M. G. Avenue, West Bengal, Durgapur, 713209, India; Sarkar, P., Department of Biotechnology, Joy University, Tamil Nadu 627116, India; Barman, S., Chemical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Halder, G., Chemical Engineering Department, National Institute of Technology Durgapur, M. G. Avenue, West Bengal, Durgapur, 713209, India	Chemical Papers	2023	3666352
7692	Big data analytics and artificial intelligence technologies based collaborative platform empowering absorptive capacity in health care supply chain: An empirical study	Bag S., Dhamija P., Singh R.K., Rahman M.S., Sreedharan V.R.	Bag, S., Institute of Management Technology, Ghaziabad, India; Dhamija, P., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Patiala (Punjab), India, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa; Singh, R.K., Management Development Institute, Gurgaon, India; Rahman, M.S., Department of Marketing and International Business, North South University, Dhaka, Bangladesh; Sreedharan, V.R., School of Management, University of Bradford, United Kingdom	Journal of Business Research	2023	1482963
7693	Transformation of bulk MnO ₂ to fluorescent quantum dots for selective and sensitive detection of ferric ions and ascorbic acid by turn-off-on strategy	Sohal N., Maity B., Basu S.	Sohal, N., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Maity, B., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Basu, S., School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Journal of Photochemistry and Photobiology A: Chemistry	2023	10106030
7694	Analysis of Heat Transfer Characteristics of a Al ₂ O ₃ – SiO ₂ /Water Hybrid Nanofluid in a Localized Heated Porous Cavity	Aneja M., Sharma S.	Aneja, M., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, 140401, India; Sharma, S., School of Mathematics, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Arabian Journal for Science and Engineering	2023	2193567X
7695	Investigation of the mechanical and corrosion properties of Mg-Hydroxyapatite composite by addition of rare-earth oxide particulates for biomedical applications	Aggarwal D., Singla V.K., Sharma S.	Aggarwal, D., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Singla, V.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Sharma, S., Department of Biotechnology Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2023	9544062
7696	Deep learning and machine learning-based early survival predictions of glioblastoma patients using pre-operative three-dimensional brain magnetic resonance imaging modalities	Kaur G., Rana P.S., Arora V.	Kaur, G., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Rana, P.S., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Arora, V., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Imaging Systems and Technology	2023	8999457

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7697	Utilization of sandstone waste in cement mortar for sustainable production of building materials through biomineralization	Sharma B., Singh A., Joshi S., Reddy M.S.	Sharma, B., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Singh, A., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Joshi, S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Sustainable Cement-Based Materials	2023	21650373
7698	Deep-Distributed-Learning-Based POI Recommendation Under Mobile-Edge Networks	Guo Z., Yu K., Kumar N., Wei W., Mumtaz S., Guizani M.	Guo, Z., Chongqing Technology and Business University, Chongqing Key Laboratory of Intelligent Perception and BlockChain Technology, National Research Base of Intelligent Manufacturing Service, Chongqing, 400067, China; Yu, K., School of Computer and Information Engineering, Bengbu University, Bengbu, 233000, China, Hosei University, Graduate School of Science and Engineering, Tokyo, 184-8584, Japan, Riken, Riken Center for Advanced Intelligence Project, Tokyo, 103-0027, Japan; Kumar, N., Department of Computer Science and Engineering, Thapar Institute of Engineering, Patiala, 147004, India, University of Petroleum and Energy Studies, School of Computer Science, Dehradun, 248007, India, The Lebanese American University, Beirut, 1102, Lebanon, King Abdul Aziz University, Department of Computer Science and It, Jeddah, 22254, Saudi Arabia; Wei, W., Xi'an University of Technology, School of Computer Science and Engineering, Xi'an, 710048, China; Mumtaz, S., Nottingham Trent University, Nottingham, NG1 4FQ, United Kingdom; Guizani, M., Mohamed Bin Zayed University of Artificial Intelligence, Machine Learning Department, Masdar, United Arab Emirates	IEEE Internet of Things Journal	2023	23274662
7699	A novel step-up topology for multilevel power conversion	Jain A., Gupta K.K., Jain S.K.	Jain, A., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Gupta, K.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Jain, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Circuit Theory and Applications	2023	989886
7700	Maximum power point tracking controller implementation in multiple input converter for effective solar energy harvesting using maximum power point resistance method	Rao C.K., Patel R., Sahu L.K., Gupta K.K., Barwar M.K.	Rao, C.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Patel, R., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Sahu, L.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India; Gupta, K.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Barwar, M.K., Department of Electrical Engineering, National Institute of Technology, Raipur, India	International Journal of Circuit Theory and Applications	2023	989886
7701	Dry Sliding Wear Behavior of Tempered (T4 and T6) Hypereutectic Aluminum Alloy-Based Composites	Singhal V., Gupta A., Pandey O.P.	Singhal, V., Metallurgical Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Mechanical Engineering, IMS Engineering College, Ghaziabad, 201001, India; Gupta, A., Department of Mechanical Engineering, GLA University, Mathura, 281406, India, Functional Materials Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Pandey, O.P., Metallurgical Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Functional Materials Lab, Thapar Institute of Engineering and Technology, Patiala, 147004, India	Silicon	2023	1876990X
7702	On the ICN-IoT with federated learning integration of communication: Concepts, security-privacy issues, applications, and future perspectives	Rahman A., Hasan K., Kundu D., Islam M.J., Debnath T., Band S.S., Kumar N.	Rahman, A., Department of CSE, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh, Department of CSE, National Institute of Textile Engineering and Research (NITER), Constituent Institute of the University of Dhaka, Savar, Dhaka, 1350, Bangladesh; Hasan, K., Department of ICE, Hankuk University of Foreign Studies, South Korea; Kundu, D., Department of CSE, National Institute of Textile Engineering and Research (NITER), Constituent Institute of the University of Dhaka, Savar, Dhaka, 1350, Bangladesh; Islam, M.J., Department of CSE, Green University of Bangladesh, 220/D, Begum Rokeya Sarani, Dhaka, 1207, Bangladesh; Debnath, T., Department of CSE, Green University of Bangladesh, 220/D, Begum Rokeya Sarani, Dhaka, 1207, Bangladesh; Band, S.S., Future Technology Research Center, College of Future, National Yunlin University of Science and Technology, 123 University RoadSection 3, Douliou, Yunlin, 64002, Taiwan; Kumar, N., Department of CSE, Thapar Institute of Engineering and Technology (Deemed University), Punjab, Patiala, India, School of Computer Science, University of Petroleum and Energy Studies, Uttarakhand, Dehradun, India, Department of Computer Science and Information Engineering, Asia University, Wufeng District, Taichung, Taiwan, King Abdul Aziz University, Jeddah, Saudi Arabia	Future Generation Computer Systems	2023	0167739X
7703	Modeling and analysis of heat transfer and fluid flow mechanisms in nanofluid filled enclosures irradiated from below	Singh I., Sehgal S.S., Khullar V.	Singh, I., Mechanical Engineering Department, Chandigarh University, Gharuan, Mohali, Punjab 140413, India; Sehgal, S.S., Mechanical Engineering Department, Chandigarh University, Gharuan, Mohali, Punjab 140413, India; Khullar, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	International Journal of Thermal Sciences	2023	12900729
7704	IoT-Enabled Sensor Node for Environmental Monitoring	Chourey P., Singh N.J., Soni K., Agarwal R.	Chourey, P., TIET, Punjab, Patiala, India; Singh, N.J., TIET, Punjab, Patiala, India; Soni, K., CSIR-NPL, Delhi, India; Agarwal, R., TIET, Punjab, Patiala, India	Lecture Notes in Electrical Engineering	2023	18761100
7705	An Adaptive Color Image Watermarking Scheme Using Combination of PSO-LTSVR in Wavelet Domain for Copyright Protection	Mehta R., Agarwal R.	Mehta, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agarwal, R., Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Lecture Notes in Electrical Engineering	2023	18761100

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7706	Performance of a fuel cell-based proton battery with varied designs of micro-flow channel for enhanced hydrogen storage	Singh G., Oberoi A.S., Kansal H.K., Singh A.P.	Singh, G., Mechanical Engineering Department, University Institute of Engineering and Technology, Chandigarh, India; Oberoi, A.S., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, H.K., Mechanical Engineering Department, University Institute of Engineering and Technology, Chandigarh, India; Singh, A.P., Mechanical Engineering Department, University Institute of Engineering and Technology, Chandigarh, India	Environmental Progress and Sustainable Energy	2023	19447442
7707	Influence of Two Different Corundum Particle Size Ranges on the Tribological Properties of LM30 Aluminum Alloy/Corundum Composites at Elevated Temperatures	Mann V.S., Pandey O.P.	Mann, V.S., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India; Pandey, O.P., School of Physics and Materials Science (SPMS), Thapar Institute of Engineering and Technology (TIET), Punjab, Patiala, 147004, India	Journal of Materials Engineering and Performance	2023	10599495
7708	The role of innovation type and country context in diffusion of innovative technologies in organisations—a meta-analytic review	Chauhan S., Gupta P., Goyal S.	Chauhan, S., Jindal Global Business School, O.P. Jindal Global University, Sonipat, India; Gupta, P., Management Development Institute, Gurgaon, India; Goyal, S., LM Thapar School of Management, Thapar Institute of Engineering and Technology, Derabassi, India	Behaviour and Information Technology	2023	0144929X
7709	Ofloxacin and doxycycline competitive/binary adsorption on to MCM-41: isotherm modelling and evaluation	Saxena M., Kushwaha J.P., Kulshreshtha S., Kaur G., Singh N.	Saxena, M., Amity Institute of Biotechnology, Amity University Jaipur, Rajasthan, Jaipur, India; Kushwaha, J.P., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, India; Kulshreshtha, S., Amity Institute of Biotechnology, Amity University Jaipur, Rajasthan, Jaipur, India; Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology (Deemed to Be University), Punjab, Patiala, India	Physics and Chemistry of Liquids	2023	319104
7710	Effect of preheating on the mechanical and high temperature tribological behaviour of reusing marble dust with aluminium composite	Chaudhary S., Dangi S., Yadav V., Walia R.S., Suri N.M., Tyagi M.	Chaudhary, S., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Dangi, S., Production and industrial engineering department, PEC, Chandigarh, India; Yadav, V., Department of Mechanical Engineering, Delhi Technological University, Delhi, India; Walia, R.S., Production and industrial engineering department, PEC, Chandigarh, India; Suri, N.M., Production and industrial engineering department, PEC, Chandigarh, India; Tyagi, M., Department of Industrial and Production Engineering, NIT Jalandhar, India	Advances in Materials and Processing Technologies	2023	2374068X
7711	Magnetorheological finishing of ball-cup surface using new tool to enhance ball-transfer-unit performance	Aggarwal A., Singh A.K.	Aggarwal, A., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, TIET, Patiala, India; Singh, A.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, TIET, Patiala, India	Materials and Manufacturing Processes	2023	10426914
7712	SWSCAV: Real-time traffic management using connected autonomous vehicles	Gokasar I., Timurogullari A., Devenci M., Garg H.	Gokasar, I., Department of Civil Engineering, Bogazici University, Bebek, Istanbul, 34342, Turkey; Timurogullari, A., Department of Civil Engineering, Bogazici University, Bebek, Istanbul, 34342, Turkey; Devenci, M., Royal School of Mines, Imperial College London, London, SW7 2AZ, United Kingdom, Department of Industrial Engineering, Turkish Naval Academy, National Defence University, Tuzla, Istanbul, 34940, Turkey; Garg, H., School of Mathematics, Thapar Institute of Engineering & Technology, Deemed University, Punjab, Patiala, 147004, India	ISA Transactions	2023	190578
7713	An improved dual image separable reversible data hiding algorithm for encrypted HAMBTC compressed images	Bhardwaj R., Niranjana A.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Niranjana, A., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Multimedia Tools and Applications	2023	13807501
7714	Variable Dropout One-Dimensional CNN for Vibration-Based Shaft Unbalance Detection in Industrial Machinery	Yadav A., Rajagopalan S., Purohit A., Singh J.	Yadav, A., Thapar Institute of Engineering and Technology, Patiala, India; Rajagopalan, S., Thapar Institute of Engineering and Technology, Patiala, India; Purohit, A., Thapar Institute of Engineering and Technology, Patiala, India; Singh, J., Thapar Institute of Engineering and Technology, Patiala, India	Journal of Vibration Engineering and Technologies	2023	25233920
7715	On twin screw extrusion parametric optimisation using hybrid approach of ANOVA and TOPSIS for 3D printing applications	Kumar S., Singh R., Singh T.P., Batish A.	Kumar, S., Department of Mechanical Engineering, CT University, Ludhiana, India; Singh, R., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, T.P., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Batish, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Advances in Materials and Processing Technologies	2023	2374068X
7716	Design of a Compact Quasi-Self-Complementary UWB-MIMO Antenna with Dual Band-Notched Characteristics for Wireless Communication Applications	Kaur H., Singh H.S., Upadhyay R.	Kaur, H., Department of Electronics and Communication Engineering, sThapar Institute of Engineering and Technology, Patiala, India; Singh, H.S., Department of Electronics and Communication Engineering, sThapar Institute of Engineering and Technology, Patiala, India; Upadhyay, R., Department of Electronics and Communication Engineering, sThapar Institute of Engineering and Technology, Patiala, India	International Journal of Electronics	2023	207217

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7717	Design of a wideband patch antenna and performance enhancement using an AMC reflector surface for on-body communication at 2.45 GHz	Gupta A., Kansal A., Chawla P.	Gupta, A., Electronics and Communication Engineering, Chandigarh University, Mohali, India; Kansal, A., Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chawla, P., Electronics and Communication Engineering, Chandigarh University, India	International Journal of Electronics	2023	207217
7718	UER of various modulation schemes over SC diversity with GGD noise for EMNC	Singh S.P., Gupta A., Singh R.K., Kansal A., Kansal V.	Singh, S.P., Department of Electronics and Communication Engineering, Galgotias College of Engineering and Technology, Greater Noida, India; Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Singh, R.K., Department of Computer Applications, Galgotias College of Engineering and Technology, Greater Noida, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, V., Department of Computer Science and Engineering, Institute of Engineering & Technology, Lucknow, India	International Journal of Electronics	2023	207217
7719	ViMDH: Visible-Imperceptible Medical Data Hiding for Internet of Medical Things	Anand A., Singh A.K., Zhou H.	Anand, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Patiala, 147004, India; Singh, A.K., National Institute of Technology Patna, Department of Computer Science and Engineering, Patna, 800006, India; Zhou, H., University of Leicester, School of Computing and Mathematical Sciences, Leicester, LE1 7RH, United Kingdom	IEEE Transactions on Industrial Informatics	2023	15513203
7720	Recent trends and future outlooks in manufacturing methods and applications of FGM: a comprehensive review	Kumar P., Sharma S.K., Singh R.K.R.	Kumar, P., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Sharma, S.K., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India; Singh, R.K.R., Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Materials and Manufacturing Processes	2023	10426914
7721	Effective Energy Management Scheme by IMPC	Ghosh S.	Ghosh, S., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, India	Intelligent Automation and Soft Computing	2023	10798587
7722	Acoustic emission monitoring of steel fiber reinforced beams under simultaneous corrosion and sustained loading	Goyal P., Sharma S., Kwatra N.	Goyal, P., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sharma, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kwatra, N., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India	European Journal of Environmental and Civil Engineering	2023	19648189
7723	Buckling and Free Vibration Analysis of Temperature-Dependent Functionally Graded CNT-Reinforced Plates	Sharma L.K., Grover N., Bhardwaj G.	Sharma, L.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147004, India	Journal of Vibration Engineering and Technologies	2023	25233920
7724	Crack healing in concrete by microbially induced calcium carbonate precipitation as assessed through electromechanical impedance technique	Anand K., Goyal S., Reddy M.S.	Anand, K., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Goyal, S., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Reddy, M.S., Department of Biotechnology, Thapar Institute of Engineering & Technology, Patiala, India	European Journal of Environmental and Civil Engineering	2023	19648189
7725	Single point incremental bending: Bending load evaluations and process validation	Singh A., Agrawal A.	Singh, A., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Agrawal, A., Department of Mechanical Engineering, Indian Institute of Technology Ropar, Punjab, Rupnagar, India	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2023	9544054
7726	Compact high gain 28, 38 GHz antenna for 5G communication	Chaudhary S., Kansal A.	Chaudhary, S., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	International Journal of Electronics	2023	207217
7727	Three-dimensional route planning for multiple unmanned aerial vehicles using Salp Swarm Algorithm	Dewangan R.K., Saxena P.	Dewangan, R.K., ECED, Thapar Institute of Engineering and Technology, Patiala, India; Saxena, P., IT, ABV Indian Institute of Information Technology and Management, ABV-IIITM, Gwalior, India	Journal of Experimental and Theoretical Artificial Intelligence	2023	0952813X
7728	Distributed Feature Sets for Document Specific Key-Phrase Extraction	Alotaibi F.S., Sharma S.	Alotaibi, F.S., Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia; Sharma, S., University Institute of Engineering and Technology, Panjab University Chandigarh, Chandigarh, India, Thapar Institute of Engineering and Technology, Patiala, India	Cybernetics and Systems	2023	1969722
7729	A Hybrid Optimization-Based Medical Data Hiding Scheme for Industrial Internet of Things Security	Anand A., Singh A.K.	Anand, A., Thapar Institute of Engineering and Technology, Department of Cse, Punjab, Patiala, 147004, India; Singh, A.K., National Institute of Technology Patna, Department of Cse, Bihar, Patna, 800005, India	IEEE Transactions on Industrial Informatics	2023	15513203
7730	Internal magnetorheological finishing of a typical outer race of ball bearing	Paswan S.K., Singh A.K.	Paswan, S.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Singh, A.K., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India	Materials and Manufacturing Processes	2023	10426914

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7731	Removal of doxycycline hydrochloride from aqueous solution by rice husk ash using response surface methodology and disposability study	Kaur G., Singh N., Rajor A., Arya R.K.	Kaur, G., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Singh, N., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Arya, R.K., Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India	Environmental Science and Pollution Research	2023	9441344
7732	Dual Watermarking for Security of COVID-19 Patient Record	Anand A., Singh A.K.	Anand, A., Thapar Institute of Engineering and Technology, Department of CSE, Punjab, Patiala, 147004, India; Singh, A.K., NIT Patna, Department of CSE, Bihar, Patna, 800005, India	IEEE Transactions on Dependable and Secure Computing	2023	15455971
7733	Effect of bacteria on strength properties and toxicity of incinerated biomedical waste ash concrete	Kaur H., Siddique R., Rajor A.	Kaur, H., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Siddique, R., Department of Civil Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Rajor, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Patiala, India	Environmental Technology (United Kingdom)	2023	9593330
7734	Accurate Detection of IoT Sensor Behaviors in Legitimate, Faulty and Compromised Scenarios	Sood K., Nosouhi M.R., Kumar N., Gaddam A., Feng B., Yu S.	Sood, K., Deakin University, Geelong, VIC 3220, Australia; Nosouhi, M.R., Deakin University, Geelong, VIC 3220, Australia; Kumar, N., Thapar University, Punjab, Patiala, 147004, India; Gaddam, A., Deakin University, Geelong, VIC 3220, Australia; Feng, B., Beijing Jiaotong University, Beijing, 100044, China; Yu, S., University of Technology Sydney, Ultimo, NSW 2007, Australia	IEEE Transactions on Dependable and Secure Computing	2023	15455971
7735	Finite element framework for static analysis of temperature dependent IHSdT based functionally graded CNT reinforced plates	Sharma L.K., Bhardwaj G., Grover N.	Sharma, L.K., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Bhardwaj, G., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Grover, N., Department of Mechanical Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Mechanics Based Design of Structures and Machines	2023	15397734
7736	Application of tracer technology in wastewater treatment processes: a review	Sarkar M., Sangal V.K., Pant H.J., Sharma V.K., Bhunia H., Bajpai P.K.	Sarkar, M., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Sangal, V.K., Department of Chemical Engineering, Malaviya National Institute of Technology, Jaipur, India; Pant, H.J., Isotope and Radiation Applications Division, Bhabha Atomic Research Centre, Mumbai, India; Sharma, V.K., Isotope and Radiation Applications Division, Bhabha Atomic Research Centre, Mumbai, India; Bhunia, H., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Bajpai, P.K., Department of Chemical Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Chemical Engineering Communications	2023	986445
7737	Latency and Energy-Aware Load Balancing in Cloud Data Centers: A Bargaining Game Based Approach	Kishor A., Niyogi R., Chronopoulos A.T., Zomaya A.Y.	Kishor, A., Thapar Institute of Engineering and Technology, Department of Computer Science and Engineering, Punjab, Patiala, 147004, India; Niyogi, R., Indian Institute of Technology, Department of Computer Science and Engineering, UK, Roorkee, 247667, India; Chronopoulos, A.T., The University of Texas at San Antonio, Department of Computer Science, San Antonio, TX 78249, United States, University of Patras, Department Computer Engineering & Informatics, Rio, 26500, Greece; Zomaya, A.Y., University of Sydney, School of Information Technologies, Sydney, NSW 2006, Australia	IEEE Transactions on Cloud Computing	2023	21687161
7738	Service Workflow: State-of-the-Art and Future Trends	Viriyasitavat W., Da Xu L., Dhiman G., Sapsomboon A., Pungpapong V., Bi Z.	Viriyasitavat, W., Chulalongkorn University, Statistics, Bangkok, 10330, Thailand; Da Xu, L., Old Dominion University, Department of Information Technology and Decision Sciences, Norfolk, VA 23529, United States; Dhiman, G., Thapar University, Computer Science and Engineering, Punjab, Patiala, 147004, India; Sapsomboon, A., Chulalongkorn University, Statistics, Bangkok, 10330, Thailand; Pungpapong, V., Chulalongkorn University, Statistics, Bangkok, 10330, Thailand; Bi, Z., Indiana University Purdue University at Fort Wayne, Department of Civil and Mechanical Engineering, Fort Wayne, IN 46805, United States	IEEE Transactions on Services Computing	2023	19391374
7739	Tracing the Intellectual Evolution of Social Entrepreneurship Research: Past Advances, Current Trends, and Future Directions	Hota P.K.	Hota, P.K., Research School of Management, The Australian National University, Canberra, ACT, Australia, LM Thapar School of Management, Thapar Institute of Engineering & Technology, Punjab, Patiala, India	Journal of Business Ethics	2023	1674544
7740	Surface Electromyogram Feature Set Optimization for Lower Limb Activity Classification	Gupta R., Dhindsa I.S., Agarwal R.	Gupta, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, PB, Patiala, India; Dhindsa, I.S., Department of Electronics and Communication Engineering, Government Polytechnic, Ambala City, India; Agarwal, R., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, PB, Patiala, India	IETE Journal of Research	2023	3772063
7741	EXPERIMENTAL INVESTIGATION AND PARAMETRIC OPTIMIZATION OF NEUROSURGICAL BONE GRINDING UNDER BIO-MIMIC ENVIRONMENT	Babbar A., Jain V., Gupta D., Prakash C.	Babbar, A., Mechanical Engineering Department, Shree Guru Gobind Singh Tricentenary University, Haryana, Gurugram, 122505, India, Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147003, India; Jain, V., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147003, India; Gupta, D., Mechanical Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147003, India; Prakash, C., School of Mechanical Engineering, Lovely Professional University, Punjab, Phagwara, 144411, India	Surface Review and Letters	2023	0218625X

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7742	Correlation of Core Thickness and Core Doping with Gate & Spacer Dielectric in Rectangular Core Shell Double Gate Junctionless Transistor	Narula V., Saini A., Agarwal M.	Narula, V., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Saini, A., Cadre Design Systems, UP, Ghaziabad, India; Agarwal, M., Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	IETE Journal of Research	2023	3772063
7743	Parameter Estimation and Analysis of Photovoltaics through a Hybrid Emperor Penguin Optimisation Approach under Different Environmental Constraints	Chauhan A., Prakash S.	Chauhan, A., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147 004, India; Prakash, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology (Deemed to be University), Patiala, 147 004, India	IETE Journal of Research	2023	3772063
7744	Hiding patient information in medical images: an enhanced dual image separable reversible data hiding algorithm for E-healthcare	Bhardwaj R.	Bhardwaj, R., Computer Science and Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
7745	Novel deep transfer learning model for COVID-19 patient detection using X-ray chest images	Kumar N., Gupta M., Gupta D., Tiwari S.	Kumar, N., Department of Computer Science & Engineering, Maharaja Surajmal Institute of Technology, C-4, Janakpuri, New Delhi, India; Gupta, M., Department of Computer Science & Engineering, Moradabad Institute of Technology, Moradabad, India; Gupta, D., Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, Rajpura, India; Tiwari, S., Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, India	Journal of Ambient Intelligence and Humanized Computing	2023	18685137
7746	Multi-objective Naked Mole-Rat Algorithm for UWB Antenna Design	Singh G., Singh U.	Singh, G., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147 004, India; Singh, U., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Deemed University, Punjab, Patiala, 147 004, India	IETE Journal of Research	2023	3772063
7747	Robust Load Frequency Control Using Fractional-order TID-PD Approach Via Salp Swarm Algorithm	Sharma M., Prakash S., Saxena S.	Sharma, M., Electrical Engineering Dept, B. H. S. B. Institute of Engineering and Technology, Punjab, Lehragaga, 148 031, India; Prakash, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India; Saxena, S., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	IETE Journal of Research	2023	3772063
7748	Large Wind Farm Layout Optimization Using Nature Inspired Meta-heuristic Algorithms	Aggarwal S.K., Saini L.M., Sood V.	Aggarwal, S.K., Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering and Technology, Patiala, India; Saini, L.M., Electrical Engineering Department, National Institute of Technology, Haryana, Kurukshetra, India; Sood, V., Electrical Engineering Department, Ontario Tech University (formerly University of Ontario Institute of Technology), Oshawa, Canada	IETE Journal of Research	2023	3772063
7749	A Proposed Hybrid Model for Electric Power Generation: A Case Study of Rajasthan, India	Nijhawan P., Singla M.K., Gupta J.	Nijhawan, P., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Singla, M.K., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, India; Gupta, J., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology Patiala, Patiala, India	IETE Journal of Research	2023	3772063
7750	A Conformal Metamaterial with Wide DNG Region for C and X Microwave Bands	Negi D., Khanna R., Kaur J.	Negi, D., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Khanna, R., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kaur, J., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India	IETE Journal of Research	2023	3772063
7751	AI-based Building Management and Information System with Multi-agent Topology for an Energy-efficient Building: Towards Occupants Comfort	Verma A., Prakash S., Kumar A.	Verma, A., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Prakash, S., Electrical & Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala, India; Kumar, A., Council of Scientific and Industrial Research–Central Building Research Institute Roorkee (CSIR-CBRI), Roorkee, India	IETE Journal of Research	2023	3772063
7752	An Efficient Approach to Schedule Generating Units of Combined Heat and Power (CHP) Generating System	Anand H.	Anand, H., Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab, Patiala, 147 004, India	IETE Journal of Research	2023	3772063
7753	Design of a Compact Dual-Band Antenna for On-/Off Body Communication	Gupta A., Kansal A., Chawla P.	Gupta, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Kansal, A., Department of Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Patiala, India; Chawla, P., Department of Electronics and Communication Engineering, Chandigarh University, Chandigarh, India	IETE Journal of Research	2023	3772063
7754	A Comparative Analysis of Data-Driven Based Optimization Models for Energy-Efficient Buildings	Verma A., Prakash S., Kumar A.	Verma, A., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Prakash, S., Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering & Technology, Patiala, 147 004, India; Kumar, A., Council of Scientific and Industrial Research - Central Building Research Institute Roorkee (CSIR-CBRI), Roorkee, 247 667, India	IETE Journal of Research	2023	3772063

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
7755	Separate effect of biodiesel, n-butanol, and biogas on performance and emission characteristics of diesel engine: a review	Mahla S.K., Goga G., Cho H.M., Dhir A., Chauhan B.S.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University Campus, Punjab, Hoshiarpur, 146001, India; Goga, G., Department of Mechanical Engineering, K.C. College of Engineering and I.T., Punjab, Nawanshahr, India; Cho, H.M., Department of Mechanical Engineering, Kongju National University, Gongju-si, South Korea; Dhir, A., School of Energy and Environment, Thapar Institute of Engineering and Technology, Punjab, Patiala, India; Chauhan, B.S., Department of Mechanical Engineering, Meerut Institute of Engineering and Technology, UP, Meerut, India	Biomass Conversion and Biorefinery	2023	21906815
7756	Trend and time series analysis by ARIMA model to predict the emissions and performance characteristics of biogas fueled compression ignition engine	Mahla S.K., Parmar K.S., Singh J., Dhir A., Sandhu S.S., Chauhan B.S.	Mahla, S.K., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Parmar, K.S., Department of Mathematics, I.K. Gujral Punjab Technical University, Kapurthala, India; Singh, J., Department of Mechanical Engineering, I.K. Gujral Punjab Technical University, Kapurthala, India; Dhir, A., School of Energy & Environment, Thapar Institute of Engineering & Technology, Patiala, India; Sandhu, S.S., Department of Mechanical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, India; Chauhan, B.S., Department of Mechanical Engineering, Lovely Professional University, Phagwara, India	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2023	15567036
7757	Role of Optimal Screening and Treatment on Infectious Diseases Dynamics in Presence of Self-protection of Susceptible	Kumar A., Srivastava P.K.	Kumar, A., School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India, Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India; Srivastava, P.K., Department of Mathematics, Indian Institute of Technology Patna, Patna, 801103, India	Differential Equations and Dynamical Systems	2023	9713514