

## List of 2022 Publications in SCI/SCOPUS

S. No.	Authors	Title	Year	Name of Journal/Proceeding	Volume	Issue	Page start	Page end	DOI	Document Type	Indexing
1.	Garg, P., Jain, A.	A robust technique for biometric image authentication using invisible watermarking	2023	Multimedia Tools and Applications	82	2	2237	2253	10.1007/s11042-022-13314-z	Article	SCI
2.	Singh Pali, H., Sharma, A., Kumar, M., Anand Annakodi, V., Nhanh Nguyen, V., Kumar Singh, N., Singh, Y., Balasubramanian, D., Deepanraj, B., Hai Truong, T., Quy Phong Nguyen, P.	Enhancement of combustion characteristics of waste cooking oil biodiesel using TiO <sub>2</sub> nanofluid blends through RSM	2023	Fuel	331				10.1016/j.fuel.2022.125681	Article	SCI
3.	Gupta, P., Chouhan, A.V., Wajeed, M.A., Tiwari, S., Bist, A.S., Puri, S.C.	Prediction of health monitoring with deep learning using edge computing	2023	Measurement: Sensors	25				10.1016/j.measen.2022.100604	Article	SCI
4.	Narayanan, G., Syed Ali, M., Rajchakit, G., Jirawattanapanit, A., Priya, B.	Stability analysis for Nabla discrete fractional-order of Glucose-Insulin Regulatory System on diabetes mellitus with Mittag-Leffler kernel	2023	Biomedical Signal Processing and Control	80				10.1016/j.bspc.2022.104295	Article	SCI
5.	Agarwal, D., Singh, P., El Sayed, M.A.	The Karush-Kuhn-Tucker (KKT) optimality conditions for fuzzy-valued fractional optimization problems	2023	Mathematics and Computers in Simulation	205		861	877	10.1016/j.matcom.2022.10.024	Article	SCI
6.	Saxena, A., Dwivedi, S.P., Srivastava, A.K., Sharma, A., Yadav, V.K., Srinivas, K., Kaushik, A., Kotkunde, N., Sharma, S.	A comparatively numerical investigation on heat transfer behavior of different materials used for internal combustion engines	2022	International Journal of Engine Research					10.1177/14680874221112722	Article	SCI
7.	Saxena, A., Dwivedi, S.P., Srivastava, A.K., Sharma, S., Kotkunde, N.	A computational investigation on the influence of the l/d ratio and strain rate on the deformation behavior of rolled and homogeneous armor steel in the split Hopkinson pressure bar test process	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	1	138	148	10.1177/09544089211036531	Article	SCI

8.	Gupta, R., Singh, P., Alam, T., Agarwal, S.	A deep neural network with hybrid spotted hyena optimizer and grasshopper optimization algorithm for copy move forgery detection	2022	Multimedia Tools and Applications					10.1007/s1042-022-14163-6	Article	SCI
9.	Pandey, R., Gautam, V., Pal, R., Bandhey, H., Dhingra, L.S., Misra, V., Sharma, H., Jain, C., Bhagat, K., Arushi, Patel, L., Agarwal, M., Agrawal, S., Jalan, R., Wadhwa, A., Garg, A., Agrawal, Y., Rana, B., Kumaraguru, P., Sethi, T.	A machine learning application for raising WASH awareness in the times of COVID-19 pandemic	2022	Scientific Reports	12	1			10.1038/s41598-021-03869-6	Article	SCI
10.	Verma, V.K., Garg, P., Tiwari, P.K., Jain, T.K.	A Metaheuristic optimization Approach-Based Anomaly detection with Lasso Regularization	2022	International Journal of Software Innovation	10	1			10.4018/IJSI.1297917	Article	SCI
11.	Laishram, R., Joshi, M., Ranjan, A.	A new high frequency MOS-C TOETQO employing DXCCTA	2022	International Journal of Electronics Letters					10.1080/21681724.2021.2025435	Article	SCI
12.	Laishram, R., Joshi, M., Ranjan, A.	A new high frequency MOS-C TOETQO employing DXCCTA	2022	International Journal of Electronics Letters	10	4	505	520	10.1080/21681724.2021.2025435	Article	SCI
13.	Patil, S., Singh, A.K., Pandey, V.K., Kanaujia, B.K., Pandey, A.K.	A simple and compact broadband circularly polarized circular slot antenna for WLAN/WiMAX/D BS applications	2022	Frequenz	76	4-Mar	209	219	10.1515/freq-2021-0118	Article	SCI
14.	Gawande, N.M., Swaroop, S., Singh, R., Lohiya, A., Bansal, R., Adhav, S.	A STUDY ON INVESTOR'S PERCEPTION TOWARDS MUTUAL FUNDS IN INDIA	2022	Journal of Pharmaceutical Negative Results	13		1590	1597	10.47750/pnr.2022.13.508.193	Article	SCI
15.	Sharma, M., Vashist, P.C., Alsukayti, I., Goyal, N., Anand, D., Mosavi, A.H.	A wider impedance bandwidth dual filter symmetrical mimo antenna for high-speed wideband wireless applications	2022	Symmetry	14	1			10.3390/sym14010029	Article	SCI
16.	Ahmed, Q.W., Garg, S., Rai, A., Ramachandran, M., Jhanjhi, N.Z., Masud, M., Baz, M.	AI-Based Resource Allocation Techniques in Wireless Sensor Internet of Things Networks in Energy Efficiency with Data Optimization	2022	Electronics (Switzerland)	11	13			10.3390/electronics11132071	Article	SCI

17.	Saxena, P., Shukla, P., Gaur, M.S.	Air-gap thermally stimulated discharge currents in PVDF-PMMA double-layered samples	2022	Journal of Thermal Analysis and Calorimetry	147	4	2957	2968	10.1007/s10973-021-10680-y	Article	SCI
18.	Dwivedi, S.P., Pachauri, P., Maurya, M., Saxena, A., Butola, R., Sahu, R., Sharma, S.	Alumina catalyst waste utilization for aluminum-based composites using the friction stir process	2022	Materialpruefung/Materials Testing	64	4	533	540	10.1515/mt-2021-2074	Article	SCI
19.	Mishra, S., Dhanraj, N., Seethamahala kshmi, M., Babu, P.V., Gupta, R.Z., Mishra, R.	An Evaluation of Factors Affecting Family Business Succession for Smart Human Resource Management	2022	Journal of Pharmaceutical Negative Results	13		3223	3228	10.47750/pnr.2022.13.S06.435	Article	SCI
20.	Saxena, A., Kumar, R., Singh, J., Singh, G.K., Sampath Kumar, V., Pandey, J.P.	An Invasive Weed Optimization for Sensor Less Control of Grid Integrated Wind Driven Doubly Fed Induction Generator	2022	IEEE Access	10		109082	109096	10.1109/ACCESS.2022.3213982	Article	SCI
21.	Saxena, P., Shukla, P.	Analysis of dielectric behavior of PVDF: PSF polyblends at lower frequency range from measurements of transient absorption and desorption currents	2022	Journal of Applied Polymer Science	139	15			10.1002/ap.51952	Article	SCI
22.	Sharma, S., Kumar, A.	Analysis of Silica Based Single-Mode Fiber Doped with Germanium at Different Transmission Window	2022	Silicon	14	3	1023	1028	10.1007/s12633-020-00884-6	Article	SCI
23.	Kumar, N., Alotaibi, M.A., Singh, A., Malik, H., Nassar, M.E.	Application of Fractional Order-PID Control Scheme in Automatic Generation Control of a Deregulated Power System in the Presence of SMES Unit	2022	Mathematics	10	3			10.3390/math10030521	Article	SCI
24.	Jain, R., Singh, K.P., Meena, A., Rana, K.B., Meena, M.L., Dangayach, G.S., Gao, X.-Z.	Application of proposed hybrid active genetic algorithm for optimization of traveling salesman problem	2022	Soft Computing					10.1007/s00500-022-07581-z	Article	SCI
25.	Singh, H., Singh, R., Goel, P., Singh, A., Sharma, N.	Automatic Framework for Vegetable Classification using Transfer-Learning	2022	International Journal of Electrical and Electronics Research	10	2	405	410	10.37391/IJEEER.100257	Article	SCI
26.	Yadav, S.K., Sharma, K., Kumar, C., Arora, A.	Blockchain-based synergistic solution to current cybersecurity frameworks	2022	Multimedia Tools and Applications	81	25	36623	36644	10.1007/s11042-021-11465-z	Article	SCI

27.	Jaiswal, A., Kumar, R.	Breast cancer diagnosis using Stochastic Self-Organizing Map andEnlarge C4.5	2022	Multimedia Tools and Applications					10.1007/s11042-022-14265-1	Article	SCI
28.	Singh, Y., Singh, N.K., Sharma, A., Anjum Badruddin, I., Kamangar, S.	Combined Effect of Phosphonium Ionic Liquid and Copper Oxide Nanopowder as Additives to the Bio-based Lubricant During Tribological Analysis	2022	Waste and Biomass Valorization					10.1007/s12649-022-01842-6	Article	SCI
29.	Agrawal, R., Karmeshu, Sehgal, A.	Composite Channel Model for Wireless Propagation with Wide-Range Signal Variation Using Rayleigh- Generalized Inverse Gaussian Distribution	2022	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	46	1	213	223	10.1007/s40998-021-00466-1	Article	SCI
30.	Agrawal, R., Karmeshu, Sehgal, A.	Composite Channel Model for Wireless Propagation with Wide-Range Signal Variation Using Rayleigh- Generalized Inverse Gaussian Distribution	2022	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	46	1	213	223	10.1007/s40998-021-00466-1	Article	SCI
31.	Kumar, M., Kujur, J., Chatterjee, R., Chattopadhyaya, S., Sharma, S., Dwivedi, S.P., Saxena, A., Rajkumar, S., Anand, A.	Corrosion Zones of Rebar in High-Volume Fly-Ash Concrete through Potentiodynamic Study in Concrete Powder Solution Extracts: A Sustainable Construction Approach	2022	Advances in Civil Engineering	2022				10.1155/2022/5927819	Article	SCI
32.	Ojha, M.K., Rai, A., Prakash, A., Tiwari, P., Gupta, D.	Cuckoo Search Constrained Gamma Masking for MRI Image Detail Enhancement	2022	Traitement du Signal	39	4	1387	1397	10.18280/ts.390433	Article	SCI
33.	Ojha, M.K., Rai, A., Prakash, A., Tiwari, P., Gupta, D.	Cuckoo Search Constrained Gamma Masking for MRI Image Detail Enhancement	2022	Fossil Record	25	2	1387	1397	10.3897/FR.25.82469	Article	SCI
34.	Rohilla, V., Chakraborty, S., Kumar, R.	Deep learning based feature extraction and a bidirectional hybrid optimized model for location based advertising	2022	Multimedia Tools and Applications	81	11	16067	16095	10.1007/s11042-022-12457-3	Article	SCI
35.	Yadav, A., Singh, P., Verma, R.K., Singh, V.K.	Design and comparative analysis of circuit theory model-based slot-loaded printed rectangular monopole antenna for UWB applications with notch band	2022	International Journal of Communication Systems					10.1002/dac.5390	Article	SCI
36.	Sharma, S., Kumar, A.	Design of a Biosensor for the Detection of Dengue Virus	2022	Plasmonics	17	2	675	680	10.1007/s11468-021-01555-x	Article	SCI

		Using 1D Photonic Crystals									
37.	Singh, M., Tyagi, K.D.	Detection of Expanded Reformed Geographical Area in Bi-temporal Multispectral Satellite Images Using Machine Intelligence Neural Network	2022	Journal of the Indian Society of Remote Sensing	50	4	623	633	10.1007/s12524-021-01476-6	Article	SCI
38.	Gunjo, D.G., Yadav, V.K., Sinha, D.K., Elseesy, I.E., Sayeed Ahmed, G.M., Abdelmohime n, M.A.H.	Development and performance evaluation of solar heating system for biogas production process	2022	Case Studies in Thermal Engineering	39				10.1016/j.csite.2022.102438	Article	SCI
39.	Mehrotra, R., Agrawal, R., Ansari, M.A.	Diagnosis of hypercritical chronic pulmonary disorders using dense convolutional network through chest radiography	2022	Multimedia Tools and Applications	81	6	7625	7649	10.1007/s1042-021-11748-5	Article	SCI
40.	Rani, A., Jain, A.	Digital image forgery detection under complex lighting using Phong reflection model	2022	Journal of Electronic Imaging	31	5			10.1117/1.JEL.31.5.051402	Article	SCI
41.	Singhal, N., Goyal, S., Sharma, D., Kumar, S., Nagar, S.	Do Goods and Services Tax Influence the Economic Development? An Empirical Analysis for India	2022	Vision					10.1177/09722629221117196	Article	SCI
42.	Singh, S.K., Chattopadhyaya, S., Pramanik, A., Kumar, S., Pandey, S.M., Walia, R.S., Sharma, S., Khan, A.M., Dwivedi, S.P., Singh, S., Wojciechowski, S.	Effect of alumina oxide nano-powder on the wear behaviour of CrN coating against cylinder liner using response surface methodology: processing and characterizations	2022	Journal of Materials Research and Technology	16		1102	1113	10.1016/j.jmrt.2021.12.062	Article	SCI
43.	Dwivedi, R., Srivastava, A.K., Singh, R.K.	Effect of eggshell waste and B4C particles on the mechanical and tribological properties of Al7075 alloy developed by friction stir processing	2022	Metallurgical Research and Technology	119	5			10.1051/metal/2022055	Article	SCI

44.	Kumar, M., Singh, V.K., Sharma, A., Ansari, N.A., Gautam, R., Singh, Y.	Effect of fuel injection pressure and EGR techniques on various engine performance and emission characteristics on a CRDI diesel engine when run with linseed oil methyl ester	2022	Energy and Environment	33	1	41	63	10.1177/0958305X20983477	Article	SCI
45.	Sharma, A., Pali, H.S., Kumar, M., Singh, N.K., Rahim, E.A., Singh, Y., Gupta, N.K.	Effect of $\hat{\Gamma}$ -aluminium oxide nano additives with Sal biodiesel blend as a potential alternative fuel for existing DI diesel engine	2022	Energy and Environment					10.1177/0958305X221133257	Article	SCI
46.	Maurya, N.K., Rastogi, V., Singh, P.	Effect of process parameters on surface roughness, dimensional accuracy and flatness of VeroBlue RGD840 rigid opaque materials	2022	International Journal of Materials Research	113	11	935	950	10.1515/ijmr-2020-8059	Article	SCI
47.	Sharma, A., Tyagi, A., Singh, Y., Singh, N.K., Pandey, N.K.	Effect of process parameters on the diesel engine performance fuelled with Prosopis juliflora biodiesel response surface methodology approach	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	2	440	451	10.1177/09544089211043014	Article	SCI
48.	Singh, J., Gill, S.S., Dogra, M., Sharma, S., Singh, M., Dwivedi, S.P., Li, C., Singh, S., Muhammad, S., Salah, B., Shamseldin, M.A.	Effect of Ranque-Hilsch Vortex Tube Cooling to Enhance the Surface-Topography and Tool-Wear in Sustainable Turning of Al-5.6Zn-2.5Mg-1.6Cu-0.23Cr-T6 Aerospace Alloy	2022	Materials	15	16			10.3390/ma15165681	Article	SCI
49.	Kumar, N., Babu, A., Das, A.K., Srivastava, A.K.	Effective Evaluation of Elastic Properties of a Graphene and Ceramics Reinforced Epoxy Composite under a Thermal Environment Using the Impact Hammer Vibration Technique	2022	Coatings	12	9			10.3390/coatings12091325	Article	SCI
50.	Shukla, P., Saxena, P., Madhwal, D., Bhardwaj, N., Jain, V.K.	Electrostatically functionalized CVD grown multiwalled carbon nanotube/palladium polymer nanocomposite (MWCNT/Pd) for methane detection at room temperature	2022	Chemical Engineering Science	264				10.1016/j.ces.2022.118191	Article	SCI

51.	Singh, K.K., Kumar, R.	Energy, Exergy, Environmental and Economic Analyses of Natural Refrigerants for Cascade Refrigeration	2022	Arabian Journal for Science and Engineering	47	12	15797	15821	10.1007/s1 3369-022- 06804-7	Article	SCI
52.	Tripathi, P., Ansari, M.A., Gandhi, T.K., Mehrotra, R., Heyat, M.B.B., Akhtar, F., Ukwuoma, C.C., Muaad, A.Y.M., Kadah, Y.M., Al-Antari, M.A., Li, J.P.	Ensemble Computational Intelligent for Insomnia Sleep Stage Detection via the Sleep ECG Signal	2022	IEEE Access	10		108710	10872 1	10.1109/A CCESS.202 2.3212120	Article	SCI
53.	Mehrrotraa, R., Ansari, M.A., Agrawal, R., Tripathi, P., Bin Heyat, M.B., Al- Sarem, M., Muaad, A.Y.M., Nagmeldin, W.A.E., Abdelmaboud, A., Saeed, F.	Ensembling of Efficient Deep Convolutional Networks and Machine Learning Algorithms for Resource Effective Detection of Tuberculosis Using Thoracic (Chest) Radiography	2022	IEEE Access	10		85442	85458	10.1109/A CCESS.202 2.3194152	Article	SCI
54.	Sahu, M.K., Mishra, S., Choudhary, T., Sanjay	Exergo-economic analysis and optimization of cooled CGAM cycle: A gas turbine based co-generation cycle	2022	International Journal of Engine Research					10.1177/14 680874221 104634	Article	SCI
55.	Maurya, R.K., Niranjan, M.S.	Experimental analysis of mechanical behaviour and residual stresses of EN-36C alloy steel with and without tempering	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	2	214	224	10.1177/09 544089211 038447	Article	SCI
56.	Kamath, G., Mishra, B., Tiwari, S., Bhardwaj, A., Marar, S.S., Soni, S., Chauhan, R., Anjappa, S.B.	Experimental and Statistical Evaluation of Drilling induced Damages in Glass Fiber Reinforced Polymer Composites - Taguchi integrated Supervised Machine Learning Approach	2022	Engineered Science	19		312	318	10.30919/e s8d733	Article	SCI
57.	Chaturvedi, P., Kulshreshtha, K., Tripathi, V., Agnihotri, D.	Exploring consumers' motives for electric vehicle adoption: bridging the attitude-behavior gap	2022	Benchmarking					10.1108/BI J-10-2021- 0618	Article	SCI
58.	Singh, Y., Rahim, E.A., Singh, N.K., Sharma, A., Singla, A., Palamanit, A.	Friction and wear characteristics of chemically modified mahua (madhuca indica) oil based lubricant with SiO <sub>2</sub>	2022	Wear	508-509				10.1016/j.w ear.2022.20 4463	Article	SCI

		nanoparticles as additives									
59.	Narayanan, G., Ali, M.S., Zhu, Q., Priya, B., Thakur, G.K.	Fuzzy observer-based consensus tracking control for fractional-order multi-agent systems under cyber-attacks and its application to electronic circuits	2022	IEEE Transactions on Network Science and Engineering			1	11	10.1109/TNSE.2022.3217618	Article	SCI
60.	Pratap Singh, S., Singh, S., Kumar, A., Pandey, A., Lakshmanan, M., Mohammed, N., Kumar, S.	Generic MGF-based tight approximation for the error rate analysis	2022	International Journal of Communication Systems					10.1002/dac.5127	Article	SCI
61.	Pratap Singh, S., Singh, S., Kumar, A., Pandey, A., Lakshmanan, M., Mohammed, N., Kumar, S.	Generic MGF-based tight approximation for the error rate analysis	2022	International Journal of Communication Systems	35	9			10.1002/dac.5127	Article	SCI
62.	Kumar, R., Tripathi, S., Agrawal, R.	Handling dynamic network behavior and unbalanced datasets for WSN anomaly detection	2022	Journal of Ambient Intelligence and Humanized Computing					10.1007/s12652-021-03669-w	Article	SCI
63.	Kumar, R., Tripathi, S., Agrawal, R.	Handling dynamic network behavior and unbalanced datasets for WSN anomaly detection	2022	Journal of Ambient Intelligence and Humanized Computing					10.1007/s12652-021-03669-w	Article	SCI
64.	Tyagi, S., Tyagi, N., Choudhury, A., Gupta, G., Zahra, M.M.A., Rahin, S.A.	Identification and Classification of Prostate Cancer Identification and Classification Based on Improved Convolution Neural Network	2022	BioMed Research International	2022				10.1155/2022/9112587	Article	SCI
65.	Singh, G., Sharma, S., Mittal, M., Singh, G., Singh, J., Changhe, L., Khan, A.M., Dwivedi, S.P., Tahir, Mushtaq, R., Singh, S.	Impact of post-heat-treatment on the surface-roughness, residual stresses, and micromorphology characteristics of plasma-sprayed pure hydroxyapatite and 7%-Aloxite reinforced hydroxyapatite coatings deposited on titanium alloy-based biomedical implants	2022	Journal of Materials Research and Technology	18		1358	1380	10.1016/j.jmrt.2022.03.065	Article	SCI
66.	Gunjo, D.G., Yadav, V.K., Sinha, D.K., Elkotb, M.A., Ahmed, G.M.S., Hossain, N.,	Improvement in Thermal Storage Effectiveness of Paraffin with Addition of Aluminum Oxide Nanoparticles	2022	Materials	15	13			10.3390/ma15134427	Article	SCI



	Abdelmohimen, M.A.H.										
67.	Singh, M., Sharma, S., Muniappan, A., Pimenov, D.Y., Wojciechowski, S., Jha, K., Dwivedi, S.P., Li, C., Królczyk, J.B., Walczak, D., Nguyen, T.V.T.	In Situ Micro-Observation of Surface Roughness and Fracture Mechanism in Metal Microforming of Thin Copper Sheets with Newly Developed Compact Testing Apparatus	2022	Materials	15	4			10.3390/ma15041368	Article	SCI
68.	Dwivedi, S.P., Saxena, A., Sharma, S.	Influence of Nano-CuO on Synthesis and Mechanical Behavior of Spent Alumina Catalyst and Grinding Sludge Reinforced Aluminum Based Composite	2022	International Journal of Metalcasting	16	1	292	303	10.1007/s40962-021-00597-5	Article	SCI
69.	Saxena, A., Dwivedi, S.P., Kumaraswamy, A., Srivastava, A.K., Maurya, N.K.	Influence of SD effect on Johnson–Cook hardening constitutive material model: Numerical and experimental investigation for armor steel	2022	Mechanics of Advanced Materials and Structures	29	2	285	302	10.1080/15376494.2020.1765266	Article	SCI
70.	Preetham, A., Ahmad, S.S., Wattar, I., Singh, P., Rout, S., Alqahtani, M.A., Tetteh Amoatey, E.	Instinctive Recognition of Pathogens in Rice Using Reformed Fractional Differential Segmentation and Innovative Fuzzy Logic-Based Probabilistic Neural Network	2022	Journal of Food Quality	2022				10.1155/2022/8662254	Article	SCI
71.	Sharma, K.	Internet of healthcare things security vulnerabilities and jamming attack analysis	2022	Expert Systems	39	3			10.1111/essay.12853	Article	SCI
72.	Saxena, A., Dwivedi, S.P., Kaushik, A., Sharma, S.	Investigation on mechanical properties of ZTA+Cr3C2 + Ni reinforced EN31 steel-based composite material: Micromechanical finite-element analysis	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering					10.1177/09544089221113141	Article	SCI
73.	Joshi, M., Ranjan, A.	Low power chaotic oscillator employing CMOS	2022	Integration	85		57	62	10.1016/j.vlsi.2022.02.011	Article	SCI
74.	Bajaj, R., Tiwari, A.K., Pramanik, A., Srivastava, A.K., Dixit, A.R.	Machining performance and sustainability analysis of PMEDM process using green dielectric fluid	2022	Journal of the Brazilian Society of Mechanical Sciences and Engineering	44	11			10.1007/s40430-022-03878-0	Article	SCI

75.	Saxena, A., Dwivedi, S.P., Srivastava, A.K., Kaushik, A., Sharma, S.	Micro-Mechanical Finite Element Analysis on Mechanical Behavior of EN31 Steel-Based Metal Matrix Composite	2022	Transactions of the Indian Institute of Metals					10.1007/s12666-022-02691-6	Article	SCI
76.	Saxena, M., Sharma, A.K., Srivastava, A.K., Singh, R.K., Dixit, A.R., Nag, A., Hloch, S.	Microwave-Assisted Synthesis, Characterization and Tribological Properties of a g-C3N4/MoS2 Nanocomposite for Low Friction Coatings	2022	Coatings	12	12			10.3390/coatings12121840	Article	SCI
77.	Purohit, H., Kaur, P., Choudhary, S.	Mitigating the Effect of COVID Lockdown Period on Channel and Bandwidth Utilization in Mobile Communication Network in North Western Rajasthan (India)	2022	Wireless Personal Communications	123	4	3497	3509	10.1007/s11277-021-09300-7	Article	SCI
78.	Sharma, A., Agrawal, A.K., Rastogi, V., Gupta, A.	Multi-scale dynamic analysis of metal matrix composite shafts through morphological evaluations	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	1	149	159	10.1177/09544089211042114	Article	SCI
79.	Priya, B., Thakur, G.K., Ali, M.S., Stamo, G., Stamo, I., Sharma, P.K.	On the Finite-Time Boundedness and Finite-Time Stability of Caputo-Type Fractional Order Neural Networks with Time Delay and Uncertain Terms	2022	Fractal and Fractional	6	7			10.3390/fractalfrac6070368	Article	SCI
80.	Kumar, J., Kumar, N.	Optimal Scheduling of Grid Connected Solar Photovoltaic and Battery Storage System Considering Degradation Cost of Battery	2022	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	46	4	1175	1188	10.1007/s40998-022-00529-x	Article	SCI
81.	Singh, N.K., Singh, Y., Sharma, A.	Optimization of biodiesel synthesis from Jojoba oil via supercritical methanol: A response surface methodology approach coupled with genetic algorithm	2022	Biomass and Bioenergy	156				10.1016/j.biombioe.2021.106332	Article	SCI
82.	Lakhera, A., Kumar, N., Sharma, A., Saxena, A., Padap, A.K., Yadav, A.K., Dwivedi, V.K.	Optimization of diesel engine performance and emission characteristics with cerium oxide nanoparticles mixed waste cooking oil biodiesel blends	2022	International Journal of Engine Research					10.1177/14680874221133223	Article	SCI

83.	Chohan, J.S., Kumar, R., Yadav, A., Chauhan, P., Singh, S., Sharma, S., Li, C., Dwivedi, S.P., Rajkumar, S.	Optimization of FDM Printing Process Parameters on Surface Finish, Thickness, and Outer Dimension with ABS Polymer Specimens Using Taguchi Orthogonal Array and Genetic Algorithms	2022	Mathematical Problems in Engineering	2022					10.1155/20 22/2698845	Article	SCI
84.	Pali, H.S., Sharma, A., Kumar, N., Singh, Y.	Optimization of long-term storage stability of Kusum biodiesel using herbal anti-oxidant	2022	Biomass Conversion and Biorefinery						10.1007/s1 3399-022- 02444-x	Article	SCI
85.	Garg, K., Chauhan, N., Agrawal, R.	Optimized Resource Allocation for Fog Network using Neuro-fuzzy Offloading Approach	2022	Arabian Journal for Science and Engineering	47	8	10333	10346		10.1007/s1 3369-022- 06563-5	Article	SCI
86.	Sharma, S., Singh, B.	Performance Analysis of Path Loss Models at 1.8 GHz in an Indoor/Outdoor Environment to Verify Network Capacity and Coverage	2022	Wireless Personal Communication s	126	4	3649	3661		10.1007/s1 1277-022- 09883-9	Article	SCI
87.	Gunjo, D.G., Yadav, V.K., Sinha, D.K., Refaey, H.A., Sayeed Ahmed, G.M., Abelmohimen , M.A.H.	Performance of latent heat storage (LHS) systems using pure paraffin wax as working substance	2022	Case Studies in Thermal Engineering	39					10.1016/j.c site.2022.1 02399	Article	SCI
88.	Dwivedi, A., Rai, V., Amrita, Joshi, S., Kumar, R., Pippal, S.K.	Peripheral blood cell classification using modified local-information weighted fuzzy C- means clustering- based golden eagle optimization model	2022	Soft Computing	26	24	13829	13841		10.1007/s0 0500-022- 07392-2	Article	SCI
89.	Pattanayak, D.R., Dwivedi, V.K., Karwal, V., Yadav, P.K., Singh, G.	Physical Layer Security Analysis of Multi-hop Hybrid RF/FSO System in Presence of Multiple Eavesdroppers	2022	IEEE Photonics Journal			1	12		10.1109/JP HOT.2022. 3226351	Article	SCI
90.	Chauhan, N., Agrawal, R.	Probabilistic Optimized Kernel Naive Bayesian Cloud Resource Allocation System	2022	Wireless Personal Communication s	124	4	2853	2872		10.1007/s1 1277-022- 09493-5	Article	SCI
91.	Singh, Y., Singla, A., Singh, N.K., Sharma, A.	Production and feasibility characterization of bio-oil from jojoba seed-based biomass through solar thermal energy pyrolysis process	2022	Biomass Conversion and Biorefinery						10.1007/s1 3399-022- 02686-9	Article	SCI

92.	Ansari, M.O., Chattopadhyaya, S., Ghose, J., Sharma, S., Kozak, D., Li, C., Wojciechowski, S., Dwivedi, S.P., Kilinc, H.C., Krolczyk, J., Walczak, D.	Productivity Enhancement by Prediction of Liquid Steel Breakout during Continuous Casting Process in Manufacturing of Steel Slabs in Steel Plant Using Artificial Neural Network with Backpropagation Algorithms	2022	Materials	15	2			10.3390/materials15020670	Article	SCI
93.	Rathore, R.K., Mishra, D., Mehra, P.S., Pal, O., HASHIM, A.S., Shapi'i, A., Ciano, T., Shutaywi, M.	Real-world model for bitcoin price prediction	2022	Information Processing and Management	59	4			10.1016/j.ipm.2022.102968	Article	SCI
94.	Dwivedi, S.P., Sahu, R., Saxena, A., Dwivedi, V.K., Srinivas, K., Sharma, S.	Recovery of Cr from chrome-containing leather waste and its utilization as reinforcement along with waste spent alumina catalyst and grinding sludge in AA 5052-based metal matrix composites	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	1	160	170	10.1177/09544089211038385	Article	SCI
95.	Dwivedi, S.P., Petru, M., Saxena, A., Sharma, S., Mishra, M., Pramanik, A., Singh, S., Li, C., Ilyas, R.A.	Recovery of Cr from chrome-containing leather wastes to develop aluminum-based composite material along with Al <sub>2</sub> O <sub>3</sub> ceramic particles: An ingenious approach	2022	Nanotechnology Reviews	11	1	3218	3234	10.1515/ntr-ev-2022-0406	Article	SCI
96.	Jude, A.B., Singh, D., Islam, S., Jameel, M., Srivastava, S., Prabha, B., Kshirsagar, P.R.	RETRACTED ARTICLE: An Artificial Intelligence Based Predictive Approach for Smart Waste Management	2022	Wireless Personal Communications	127		15	16	10.1007/s1277-021-08803-7	Article	SCI
97.	Agarwal, D., Singh, P.	Riemann integrability based optimality criteria for fractional optimization problems with fuzzy parameters	2022	Iranian Journal of Fuzzy Systems	19	2	151	168	10.22111/IJFS.2022.6796	Article	SCI
98.	Kumar, M., Aggarwal, J., Rani, A., Stephan, T., Shankar, A., Mirjalili, S.	Secure video communication using firefly optimization and visual cryptography	2022	Artificial Intelligence Review	55	4	2997	3017	10.1007/s10462-021-10070-8	Article	SCI
99.	Pandey, P.S., Raghuwanshi, S.K.	Sensitivity Enhancement of Surface Plasmon Resonance (SPR) Sensor Assisted by BlueP/MoS <sub>2</sub> Based Composite Heterostructure	2022	IEEE Access	10		116152	116159	10.1109/ACCESS.2022.3219439	Article	SCI

100	Saini, A., Kumar, R., Kumar, G., Kumar, S., Mittal, M.	Software product line regression testing based on fuzzy clustering approach using distance method	2022	International Journal of Engineering Systems Modelling and Simulation	13	4	241	254	10.1504/ijesms.2022.126301	Article	SCI
101	Dwivedi, S.P., Maurya, M., Sharma, S.	Study of CCLW, Alumina and the Mixture of Alumina- and CCLW-Reinforced Aluminum-Based Composite Material with and Without Mechanical Alloying	2022	Institution of Mechanical Engineers, Part D	103	1	319	331	10.1007/s40033-021-00312-y	Article	SCI
102	Mann, S., Pathak, N., Sharma, N., Kumar, R., Porwal, R., Sharma, S.K., Aung, S.M.Y.	Study of Energy-Efficient Optimization Techniques for High-Level Homogeneous Resource Management	2022	Wireless Communications and Mobile Computing	2022				10.1155/2022/1953510	Article	SCI
103	Sharma, A., Pali, H.S., Kumar, M., Singh, N.K., Singh, Y., Singh, D.	Study the effect of optimized input parameters on a CRDI diesel engine running with waste frying oil methyl ester-diesel blend fuel with ZnO nanoparticles: a response surface methodology approach	2022	Biomass Conversion and Biorefinery					10.1007/s13399-021-02158-6	Article	SCI
104	Kumar, N., Singh, R.K., Srivastava, A.K., Nag, A., Petru, J., Hloch, S.	Surface Modification and Parametric Optimization of Tensile Strength of Al6082/SiC/Waste Material Surface Composite Produced by Friction Stir Processing	2022	Coatings	12	12			10.3390/coatings12121909	Article	SCI
105	Yadav, S.P., Zaidi, S., Mishra, A., Yadav, V.	Survey on Machine Learning in Speech Emotion Recognition and Vision Systems Using a Recurrent Neural Network (RNN)	2022	Archives of Computational Methods in Engineering	29	3	1753	1770	10.1007/s11831-021-09647-x	Article	SCI
106	Singh, Y., Singh, N.K., Sharma, A., Singla, A.	Sustainability of chemically modified Simarouba glauca for tribological applications and chemical structure analysis at different loads	2022	Biomass Conversion and Biorefinery					10.1007/s13399-022-03682-9	Article	SCI
107	Singh, Y., Singh, D., Singh, N.K., Sharma, A.	Sustainability of corn based-biomass for production of bio-oil and their characterization through solar thermal energy approach	2022	Biomass Conversion and Biorefinery					10.1007/s13399-022-03657-w	Article	SCI

108	Dwivedi, S.P., Maurya, M., Saxena, A., Sharma, S.	Synthesis and characterization of spent alumina catalyst and grinding sludge reinforced aluminium-based composite material	2022	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	236	10	5523	5534	10.1177/09 544062211 061451	Article	SCI
109	Kundu, K., Bera, R., Pathak, N.N.	Synthesis of Concentric Circular Antenna Array Using Whale Optimization Algorithm	2022	IETE Journal of Research					10.1080/03 772063.202 2.2096703	Article	SCI
110	Srivastava, A.K., Dwivedi, S., Saxena, A., Kumar, D., Dixit, A.R., Singh, G.K., Bhutto, J.K., Verma, R.	Tribological Characteristics of Al359/Si3N4/Eggshell Surface Composite Produced by Friction Stir Processing	2022	Coatings	12	9			10.3390/co atings1209 1362	Article	SCI
111	Singh, Y., Singh, N.K., Sharma, A., Badhotiya, G.K.	Tribo-mechanism analysis of epoxidized Putranjiva oil (Putranjiva roxburghii) and understanding lubricity with silicon oxide nanoparticle addition	2022	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	236	4	648	658	10.1177/13 506501211 029449	Article	SCI
112	Kumar, R., Tripathi, S., Agrawal, R.	Trust-based energy- aware routing using GEOSR protocol for Ad-Hoc sensor networks	2022	Wireless Networks	28	7	2913	2936	10.1007/s1 1276-022- 02991-1	Article	SCI
113	Nagwanshi, K.K., Noonia, A., Tiwari, S., Doohan, N.V., Kumawat, V., Ahanger, T.A., Amoatey, E.T.	Wearable Sensors with Internet of Things (IoT) and Vocabulary-Based Acoustic Signal Processing for Monitoring Children's Health	2022	Computational Intelligence and Neuroscience	2022				10.1155/20 22/9737511	Article	SCI
114	Kumar, N., Bhavsar, H., Mahesh, P.V.S., Srivastava, A.K., Bora, B.J., Saxena, A., Dixit, A.R.	Wire Arc Additive Manufacturing – A revolutionary method in additive manufacturing	2022	Materials Chemistry and Physics	285				10.1016/j.m atchemphys .2022.1261 44	Article	SCI
115	Agrawal, R., Ansari, M.A., Anand, R.S., Sneha, S., Mehrotra, R.	Computational Intelligence in Healthcare Applications	2022	Computational Intelligence in Healthcare Applications			1	353	10.1016/C2 021-0- 01630-8	Book	SCI
116	Dwivedi, S.P., Sahu, R.	Editorial	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	236	1	103		10.1177/09 544089221 083098	Editorial	SCI

117	Kumar, R., Tripathi, S., Agrawal, R.	Correction to: Trust-based energy- aware routing using GEOSR protocol for Ad-Hoc sensor networks (Wireless Networks, (2022), 28, 7, (2913-2936), 10.1007/s11276- 022-02991-1)	2022	Wireless Networks					10.1007/s1 1276-022- 03183-7	Erratum	SCI
118	Saxena, P., Shukla, P.	A comparative analysis of the basic properties and applications of poly (vinylidene fluoride) (PVDF) and poly (methyl methacrylate) (PMMA)	2022	Polymer Bulletin	79	8	5635	5665	10.1007/s0 0289-021- 03790-y	Review	SCI
119	Kumar, R., Saxena, A., Kumar, R., Marwaha, S., Singh, J., Singh, G.K.	A Comprehensive Overview on Modified Versions of Stockwell Transform For Power Quality Monitoring	2022	IEEE Access	10		91963	91975	10.1109/A CCESS.202 2.3202309	Review	SCI
120	Negi, P., Singh, Y., Yadav, A., Singh, N.K., Sharma, A., Singh, R.	Challenges and future opportunities of nanoparticle applications to various biofuel generation processes – a review	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering					10.1177/09 544089221 145485	Review	SCI
121	Singh, Y., Pali, H.S., Singh, N.K., Sharma, A., Singla, A.	Effect of nanoparticles as additives to the biofuels and their feasibility assessment on the engine performance and emission analysis – A review	2022	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering					10.1177/09 544089221 109723	Review	SCI
122	Kshirsagar, P.R., Manaoharan, H., Tirth, V., Islam, S., Srivastava, S., Sahni, V., Thangamani, M., Khanapurkar, M.M., Sundramurthy , V.P.	Implementation of Whale Optimization for Budding Healthiness of Fishes with Preprocessing Approach	2022	Journal of Healthcare Engineering	2022				10.1155/20 22/2345600	Review	SCI
123	Sharma, P.S., Kumar, S., Gaur, M.S., Jain, V.	A novel intelligent round robin CPU scheduling algorithm	2022	International Journal of Information Technology (Singapore)	14	3	1475	1482	10.1007/s4 1870-021- 00630-0	Article	SCOPUS
124	Barthwal, A., Sharma, K.	Analysis and prediction of urban ambient and surface temperatures using internet of things	2022	International Journal of System Assurance Engineering and Management	13		516	532	10.1007/s1 3198-021- 01502-3	Article	SCOPUS
125	Kumar Singh, R., Misra, A., Malik, M., Singh, M., Gupta, M.	Analysis of H- bonded molecular association in formamide with alcohols	2022	Materials Today: Proceedings			2096	2102	10.1016/j.m atpr.2021.1 2.031	Article	SCOPUS

126	Garg, S.	APPROXIMATION FOR GUPTA TYPE GENERAL OPERATORS BASED ON MIHEgAN BASIS FUNCTIONS	2022	Publications de l'Institut Mathematique	111	125	77	87	10.2298/PI M2225077 G	Article	SCOPUS
127	Pandey, N.K., Bajpai, V.K., Sharma, A., Yadav, S.	CFD and thermo-hydraulic analysis of multiple arc roughened absorber plate with gaps used in solar air heaters	2022	International Journal of Ambient Energy	43	1	3275	3281	10.1080/01430750.2020.1824941	Article	SCOPUS
128	Shukla, P., Joshi, K., Rastogi, U., Kotkunde, N., Singh, S.K., Saxena, A.	Conceptualisation of biaxial tensile test setup for sheet metal forming application using fuzzy analytical network process	2022	Advances in Materials and Processing Technologies	8	1	291	304	10.1080/2374068X.2020.1807244	Article	SCOPUS
129	Panwar, P., Roshan, P., Singh, R., Rai, M., Mishra, A.R., Chauhan, S.S.	DDNet- A Deep Learning Approach to Detect Driver Distraction and Drowsiness	2022	Evergreen	9	3	881	892		Article	SCOPUS
130	Dwivedi, S.P., Sahu, R.	Development of Aluminum-Based Composite Material by using Bagasse Ash and Eggshell as Reinforcement Along with Nano-CuO Particles	2022	Journal of The Institution of Engineers (India): Series D					10.1007/s40033-022-00417-y	Article	SCOPUS
131	Agnihotri, D., Kulshreshtha, K., Tripathi, V., Chaturvedi, P.	Does green self-identity influence the revisit intention of dissatisfied customers in green restaurants?	2022	Management of Environmental Quality: An International Journal					10.1108/MEQ-03-2022-0076	Article	SCOPUS
132	Dwivedi, V.K., Dwivedi, S.P., Yadav, R.	Effect of heat treatment process on microstructure and mechanical behaviour of Al/MgO composite material	2022	Advances in Materials and Processing Technologies	8	1	653	662	10.1080/2374068X.2020.1829955	Article	SCOPUS
133	Chaudhary, V., Pratim Das, P., Sahu, R., Dey Sadhu, S., Gupta, P., Gupta, S.	Engineered nanomaterials for environmental Sustainability: A Lab-to-Market perspective	2022	Materials Today: Proceedings					10.1016/j.matpr.2022.10.211	Article	SCOPUS
134	Pandey, N.K., Bajpai, V.K., Sharma, A.	Exergy analysis of roughened duct using multiple arcs with gaps used in solar air heaters	2022	International Journal of Ambient Energy	43	1	4129	4137	10.1080/01430750.2021.1873180	Article	SCOPUS
135	Pandey, N.K., Sharma, A., Yadav, N., Singh, A.P., Bajpai, V.K.	Fluid flow and heat transfer evaluation and optimisation of solar-assisted air-heater having multi-arcs with gaps used as roughness elements	2022	International Journal of Ambient Energy					10.1080/01430750.2022.2128412	Article	SCOPUS
136	Singh, C.V., Pachauri, P., Dwivedi, S.P., Sharma, S., Singari, R.M.	Formation of functionally graded hybrid composite materials with Al <sub>2</sub> O <sub>3</sub> and RHA reinforcements	2022	Australian Journal of Mechanical Engineering	20	1	141	154	10.1080/14484846.2019.1679583	Article	SCOPUS



		using friction stir process									
137	Sagar, L.K., Das, D.B.	Fuzzy Expert System for Determining State of Solar Photo Voltaic Power Plant Based on Real-Time Data	2022	Evergreen	9	3	870	880		Article	SCOPUS
138	Islam, A., Dwivedi, S.P., Yadav, R., Kumar Dwivedi, V.	Grain size, coefficient of thermal expansion and corrosion behavior of eggshell and rice husk ash reinforced composite material	2022	World Journal of Engineering					10.1108/WJE-02-2022-0087	Article	SCOPUS
139	Gera, A., Vyas, V.	Hiding Capacity and Audio Steganography Model Based on LSB in Temporal Domain	2022	Recent Patents on Engineering	16	2			10.2174/1872212115666210709170455	Article	SCOPUS
140	Singhal, N., Goyal, S., Kumari, S., Nagar, S., Tyagi, A.	Implication of Goods and services Tax (GsT) Implementation in India on Foreign Trade	2022	Finance: Theory and Practice	26	3	241	251	10.26794/2587-5671-2022-26-3-241-251	Article	SCOPUS
141	Kumar Thakur, G., Syed Ali, M., Priya, B., Gokulakrishna n, V., Kauser, S.A.	Impulsive effects on stochastic bidirectional associative memory neural networks with reaction-diffusion and leakage delays	2022	International Journal of Computer Mathematics	99	8	1669	1686	10.1080/00207160.2021.1999428	Article	SCOPUS
142	Mahadani, A.K., Awasthi, S., Sanyal, G., Bhattacharjee, P., Pippal, S.	Indel-K2P: a modified Kimura 2 Parameters (K2P) model to incorporate insertion and deletion (Indel) information in phylogenetic analysis	2022	Cyber-Physical Systems	8	1	32	44	10.1080/23335777.2021.1879274	Article	SCOPUS
143	Prakash, O., Dwivedi, S., Pagrut, S., Singh Rajawat, M., Raj, R., Kumar Srivastava, A., Rai Dixit, A.	Investigation on the friction stir assisted lap joining of pure copper and aluminium 6063 alloy	2022	Materials Today: Proceedings					10.1016/j.matpr.2022.04.716	Article	SCOPUS
144	Prakash, O., Dwivedi, S., Pagrut, S., Singh Rajawat, M., Raj, R., Kumar Srivastava, A., Rai Dixit, A.	Investigation on the friction stir assisted lap joining of pure copper and aluminium 6063 alloy	2022	Materials Today: Proceedings	62		398	403	10.1016/j.matpr.2022.04.716	Article	SCOPUS
145	Kumar, N., Singh, A.	Load Frequency Control for multiarea Power System using	2022	Trends in Sciences	19	2			10.48048/tis.2022.2044	Article	SCOPUS

		Secondary Controllers									
146	Rajni, Swami, A., Khan, M., Hemrajani, P., Dhiman, R.	Mapping the Intellectual Structure of Workplace Spirituality Through Bibliometric Analysis	2022	FIIB Business Review					10.1177/23 197145221 099090	Article	SCOPUS
147	Gera, A., Vyas, V.	Message Security Enhanced By Bit Cycling Encryption and Bi-LSB Technique	2022	Evergreen	9	3	845	852		Article	SCOPUS
148	Duttaluru, G., Singh, P., Kumar Ansu, A., kumar Sharma, R., kumar, A., Mishra, S.	Methods to enhance the thermal properties of organic phase change materials: A review	2022	Materials Today: Proceedings					10.1016/j.m atpr.2022.0 4911	Article	SCOPUS
149	Duttaluru, G., Singh, P., Kumar Ansu, A., kumar Sharma, R., kumar, A., Mishra, S.	Methods to enhance the thermal properties of organic phase change materials: A review	2022	Materials Today: Proceedings	63		685	691	10.1016/j.m atpr.2022.0 4911	Article	SCOPUS
150	Phadke, N., Raj, R., Kumar Srivastava, A., Dwivedi, S., Rai Dixit, A.	Modeling and parametric optimization of laser powder bed fusion 3D printing technique using artificial neural network for enhancing dimensional accuracy	2022	Materials Today: Proceedings					10.1016/j.m atpr.2022.0 2.523	Article	SCOPUS
151	Phadke, N., Raj, R., Kumar Srivastava, A., Dwivedi, S., Rai Dixit, A.	Modeling and parametric optimization of laser powder bed fusion 3D printing technique using artificial neural network for enhancing dimensional accuracy	2022	Materials Today: Proceedings					10.1016/j.m atpr.2022.0 2.523	Article	SCOPUS
152	Rani, N.	Monitoring of PAHs (Fluoranthene and Benzo(a)Anthracen e) in Ambient Air of Ghaziabad Area of National Capital Region and Control of Air Pollution by Triveni Wood	2022	Polycyclic Aromatic Compounds					10.1080/10 406638.202 2.2067193	Article	SCOPUS
153	Singh, Y., Sharma, A., Singh, N.K., Singla, A., Upadhyay, R.K.	Moringa Oleifera: Bio based lubricant development from a novel feedstock for tribological characterization	2022	Advances in Materials and Processing Technologies	8	1	663	675	10.1080/23 74068X.20 20.1829956	Article	SCOPUS

154	Kumar, B., Sahu, R., Mishra, M.	Optimization of process parameter for commercially pure aluminium alloy during friction stir deformation	2022	Advances in Materials and Processing Technologies	8	2	1687	1698	10.1080/2374068X.2020.1860601	Article	SCOPUS
155	Gunjo, D.G., Yadav, V.K., Sinha, D.K.	Performance Analysis of Latent Heat Storage Systems using CuO Nanoparticles	2022	Evergreen	9	2	292	299	10.5109/4793667	Article	SCOPUS
156	Praveen, S., Tyagi, N., Singh, B., Karetla, G.R., Thalor, M.A., Joshi, K., Tsegaye, M.	PSO-Based Evolutionary Approach to Optimize Head and Neck Biomedical Image to Detect Mesothelioma Cancer	2022	BioMed Research International	2022				10.1155/2022/3618197	Article	SCOPUS
157	Syed Ali, M., Agalya, R., Priya, B., Kumar Thakur, G., Asma Kauser, S.	Reliable controller for nonlinear multiagent system with additive time varying delay and nonlinear actuator faults	2022	Mathematical Methods in the Applied Sciences	45	1	561	574	10.1002/ma.7797	Article	SCOPUS
158	Verma, A., Singh Chauhan, S., Prakash Dwivedi, S.	Review paper on thermal expansion and tribological behavior of composite materials	2022	Materials Today: Proceedings					10.1016/j.matpr.2022.11.073	Article	SCOPUS
159	Dwivedi, S.P., Yadav, R., Islam, A., Dwivedi, V.K., Sharma, S.	Synthesis, Physical and Mechanical Behavior of Agro-Waste RHA and Eggshell-Reinforced Composite Material	2022	Journal of The Institution of Engineers (India): Series C	103	6	1455	1467	10.1007/s40032-022-00879-9	Article	SCOPUS
160	Kumar, V., Garg, S.K., Gupta, S., Sharma, S.K.	Two Level Storage Inventory Model with Ramp Type Demand under Inflationary Environment with Partial Backordering	2022	Evergreen	9	2	367	377	10.5109/4794161	Article	SCOPUS
161	Rai, G.K., Jamwal, G., Rai, G., Singh, M.	Understanding Transcription Factors in Plant Response to Drought Stress	2022	Indian Journal of Agricultural Biochemistry	34	2	116	125	10.5958/0974-4479.2021.00016.2	Article	SCOPUS
162	Chauhan, N.K., Goel, C., Singh, P.	Comparative Analysis of Machine Learning Algorithms with Ensemble Techniques and Forecasting COVID-19 Cases in India	2023	Lecture Notes in Computational Vision and Biomechanics	37		61	83	10.1007/978-981-19-0151-5_6	Book Chapter	SCOPUS
163	Singh, T., Khan, R., Srivastava, S.	A Review on AI-Based Techniques for Tackling COVID-19	2022	Studies in Computational Intelligence	1007		325	336	10.1007/978-981-16-8012-0_25	Book Chapter	SCOPUS
164	Singh, A.K., Tripathi, A., Choudhary, P., Vashist, P.C.	A Review on Open Challenges in Intrusion Detection System	2022	Studies in Computational Intelligence	1007		49	58	10.1007/978-981-16-8012-0_4	Book Chapter	SCOPUS
165	Pandey, A.B., Tripathi, A., Vashist, P.C.	A Survey of Cyber Security Trends, Emerging Technologies and Threats	2022	Studies in Computational Intelligence	1007		19	33	10.1007/978-981-16-8012-0_2	Book Chapter	SCOPUS

166	Tyagi, V., Singh, R., Tripathi, A., Agarwal, V., Pandey, S.	An Android App Permission Analysis for User Privacy and Security	2022	Futuristic Trends for Sustainable Development and Sustainable Ecosystems			89	103	10.4018/978-1-6684-4225-8.ch006	Book Chapter	SCOPUS
167	Pal, G.P., Das, A., Das, S.K., Raj, M.	An Automated Recognition System of Sign Languages Using Deep Learning Approach	2022	Studies in Computational Intelligence	1007		295	309	10.1007/978-981-16-8012-0_23	Book Chapter	SCOPUS
168	Rai, A., Prakash, O.	Application of machine learning in agriculture with some examples	2022	Artificial Intelligence: Applications and Innovations			139	163	10.1201/9781003217237-7	Book Chapter	SCOPUS
169	Tripathi, P., Ansari, M.A., Akhtar, F., Bin Heyat, M.B., Mehrotra, R., Yattoo, A.H., Teelhawod, B.N., Asfaw, A.B., Baig, A.A.	Automatic epileptic seizure detection based on the discrete wavelet transform approach using an artificial neural network classifier on the scalp electroencephalogram signal	2022	Computational Intelligence in Healthcare Applications			157	173	10.1016/B978-0-323-99031-8.00012-0	Book Chapter	SCOPUS
170	Verma, A., Ansari, M.A., Tripathi, P., Mehrotra, R., Shadab, S.A.	Brain tumor detection through MRI using image thresholding, k-means, and watershed segmentation	2022	Computational Intelligence in Healthcare Applications			267	283	10.1016/B978-0-323-99031-8.00006-5	Book Chapter	SCOPUS
171	Sharma, V., Varshney, N.	Capacitated Vehicle Routing Problem Using Genetic Algorithm and Particle Swarm Optimization	2022	Lecture Notes in Electrical Engineering	888		479	490	10.1007/978-981-19-1520-8_39	Book Chapter	SCOPUS
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224	Ahmad, G., Raibole, S.U., Sharma, A.	Automated Epileptic Seizure Detection using Principal Component Analysis Framework	2022	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022			1248	1253	10.1109/IC SSIT53264. 2022.97164 51	Confere nce Paper	SCOPUS
225	Yadav, H., Singh, S., Mishra, K.K., Srivastava, S., Naruka, M.S., Yadav, S.P.	Brain Tumor Detection with MRI Images	2022	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022			519	527	10.1109/CI SES54857. 2022.98443 87	Confere nce Paper	SCOPUS
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228	Jain, G., Mishra, R.	Cloud Supported Secure e-Card College Management System	2022	Lecture Notes in Electrical Engineering	875		275	290	10.1007/97 8-981-19- 0284-0_21	Confere nce Paper	SCOPUS
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231	Rani, A., Jain, A.	Copy-Move Image Forgery Detection Using SURF, SIFT, and KAZE	2022	Lecture Notes in Electrical Engineering	915		719	726	10.1007/97 8-981-19- 2828-4_64	Confere nce Paper	SCOPUS
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233	Singh, V., Gandhi, S., Kumar, R., Yadav, R., Joshi, S.	Deep Neural Network for Facial Emotion Recognition System	2022	Smart Innovation, Systems and Technologies	239		397	402	10.1007/97 8-981-16- 2857-3_39	Confere nce Paper	SCOPUS
234	Datta, P., Rohilla, R.	Denoising Magnetic Resonance Images with Rician Noise Based on Deep Learning	2022	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022			545	550	10.1109/CI SES54857. 2022.98443 24	Confere nce Paper	SCOPUS

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237	Singh, K., Singh, J., Amardeep, Singh, S.K., Kumar, H.	Design and Fabrication of Self- balanced Electric Two-Wheeler	2022	Smart Innovation, Systems and Technologies	239		367	376	10.1007/97 8-981-16- 2857-3_36	Confere nce Paper	SCOPUS
238	Vashist, P.C., Tripathi, A.	Design and Implementation of Smart Energy Meter with Real-Time Pricing	2022	Smart Innovation, Systems and Technologies	239		499	507	10.1007/97 8-981-16- 2857-3_49	Confere nce Paper	SCOPUS
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245	Mittal, S., Srivastava, P., Gupta, D.	Emotional Intelligence: Assessing Its Impact on Financial Productivity in an Organization	2022	Smart Innovation, Systems and Technologies	239		207	214	10.1007/97 8-981-16- 2857-3_22	Confere nce Paper	SCOPUS
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247	Kumar, P., Kumar, S., Gaur, M.S.	Encryption Algorithm using Matrix Manipulation	2022	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022			125	129	10.1109/CI SES54857. 2022.98443 78	Confere nce Paper	SCOPUS
248	Singh, H., Bahri, H., Singh, K.K.	Experimental Analysis of Wear and Mechanical Characteristics of Aluminium Matrix Composite Fabricated Through Powder Metallurgy	2022	Smart Innovation, Systems and Technologies	239		115	129	10.1007/97 8-981-16- 2857-3_14	Confere nce Paper	SCOPUS
249	Singh, A., Yadav, V.K., Amardeep, Maddheshiya, M.K., Sharma, S., Jha, M., Singh, P.	Experimental and Computational Analysis of Household Cook Stoves: A Review	2022	Lecture Notes in Mechanical Engineering			89	101	10.1007/97 8-981-16- 3428-4_8	Confere nce Paper	SCOPUS
250	Yadav, O., Dahiya, A., Yadav, V.K., Sharma, R.	Experimental and Computational Investigation of Coefficient of Discharge of Venturimeter	2022	Lecture Notes in Mechanical Engineering			57	72	10.1007/97 8-981-16- 3428-4_6	Confere nce Paper	SCOPUS
251	Yadav, O., Chhonkar, A., Sharma, R., Chauhan, S., Bansal, A., Baghel, N.S., Sharma, H., Sharma, D.	Experimental Study of Parameter Affecting the Thermal Conductivity of Composite Materials and Alloy: A Review	2022	Smart Innovation, Systems and Technologies	239		19	31	10.1007/97 8-981-16- 2857-3_4	Confere nce Paper	SCOPUS
252	Sharma, R., Raman, R., Yadav, O., Singh, V.P., Tanwar, H., Kumar, U., Gupta, U., Shakye, R.	Experimental Study of Performance and Emission Characteristics Using Biodiesel Blends in a Diesel Engine: A Review	2022	Lecture Notes in Mechanical Engineering			169	187	10.1007/97 8-981-16- 3428-4_14	Confere nce Paper	SCOPUS

253	Sharma, R., Raman, R., Yadav, O., Singh, V.P., Tanwar, H., Kumar, U., Gupta, U., Shakye, R.	Experimental Study of Performance and Emission Characteristics Using Biodiesel Blends in a Diesel Engine: A Review	2022	Lecture Notes in Mechanical Engineering			169	187	10.1007/978-981-16-3428-4_14	Conference Paper	SCOPUS
254	Kaur, J., Saxena, J., Shah, J., Fahad, Yadav, S.P.	Facial Emotion Recognition	2022	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022			528	533	10.1109/CISES54857.2022.9844366	Conference Paper	SCOPUS
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258	Narang, S., Bhardwaj, G., Srivastava, A.P.	Gamification in HRM: An Overview	2022	ECS Transactions	107	1	3573	3580	10.1149/10701.3573ecst	Conference Paper	SCOPUS
259	Maurya, B.	Global Overview of Large-Scale Photovoltaic System and Its Electrical Energy Storage Implementation	2022	Smart Innovation, Systems and Technologies	239		143	154	10.1007/978-981-16-2857-3_16	Conference Paper	SCOPUS
260	Dohare, D.	Groundwater Recharge Using Artificial Filter Mechanism	2022	Smart Innovation, Systems and Technologies	239		333	347	10.1007/978-981-16-2857-3_33	Conference Paper	SCOPUS
261	Raj, G., Sharma, U., Yadav, R., Bhardwaj, A., Yadav, S.	Hassle-Free Food Ordering Superintendence	2022	Lecture Notes in Electrical Engineering	837		269	277	10.1007/978-981-16-8546-0_22	Conference Paper	SCOPUS
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265	Anjoy, S., De, P., Mandal, S.	Identification of Lung Cancer Nodules from CT Images Using 2D Convolutional Neural Networks	2022	Lecture Notes in Networks and Systems	480 LNNS		133	140	10.1007/978-981-19-3089-8_13	Conference Paper	SCOPUS
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267	Saxena, R., Gupta, T., Sharma, R.K., Yadav, S.	Influence of Incorporating Industrial Byproducts/Wastes on Mechanical Properties and Durability Characteristics of Self-Consolidating Concrete: A Review	2022	Lecture Notes in Mechanical Engineering			185	196	10.1007/978-981-16-3330-0_16	Conference Paper	SCOPUS
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270	Kumar, N., Bansal, M., Kaura, S., Datta, P.	Load Frequency Control in Deregulated-Hybrid Power System Integrated with Energy Generation/Storage System	2022	Smart Innovation, Systems and Technologies	239		275	286	10.1007/978-981-16-2857-3_28	Conference Paper	SCOPUS
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275	Garg, A., Patel, V., Mishra, D.	Mid-Point Sorting Algorithm:A New Way to Sort	2022	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022			65	71	10.1109/CISES54857.2022.9844386	Conference Paper	SCOPUS
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279	Mishra, D., Mishra, S.	Neural Network: A Way to Know Consumer Satisfaction During Voice Call	2022	Lecture Notes in Electrical Engineering	894 LNEE		121	131	10.1007/978-981-19-1677-9_11	Conference Paper	SCOPUS
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286	Naveen, Sharma, U.	Reduction of IoT Security Vulnerabilities Using Machine Learning Algorithm	2022	Lecture Notes in Electrical Engineering	915	677	687	10.1007/978-981-19-2828-4_60	Conference Paper	SCOPUS	
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293	Saini, A., Rajkumar, Kumar, S.	Software Product Line Testing – A Proposal of Distance-Based Approach	2022	Lecture Notes in Electrical Engineering	836	187	198	10.1007/978-981-16-8542-2_15	Conference Paper	SCOPUS	
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299	Patel, S., Rawat, R., Shantanu, Kumar, A., Amardeep	Study of Steering System for an Electric Trike- Ackerman Steering	2022	Smart Innovation, Systems and Technologies	239	9	18	10.1007/97 8-981-16- 2857-3_3	Confere nce Paper	SCOPUS
300	Sharma, A., Sethi, D., Kumar, I., Yadav, J., Bhatia, S., Amardeep	Study on the Development and Problems Faced in Electric Vehicles	2022	Smart Innovation, Systems and Technologies	239	469	479	10.1007/97 8-981-16- 2857-3_46	Confere nce Paper	SCOPUS
301	Tiwari, B.K., Kumar, A., Mishra, M.	Synthesis and Thermal Analysis of Chromium (III) Bakelite Composites	2022	Lecture Notes in Mechanical Engineering		135	138	10.1007/97 8-981-16- 3330-0_12	Confere nce Paper	SCOPUS
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304	Umamaheswa ran, S.K., Munagala, N.K., Mishra, D., Othman, B., Sinthu, S., Tripathi, V.	The role of implementing Machine Learning approaches in enhancing the effectiveness of HealthCare service	2022	2022 2nd International Conference on Advance Computing and Innovative Technologies in		1922	1926	10.1109/IC ACITE537 22.2022.98 23656	Confere nce Paper	SCOPUS



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305	Pankaj, S., Tomar, A., Poojashree, Y., Saurabh, J., Bhatambrekar, S., Awasthi, S.	The Study of Online Appointment System - A Case Study	2022	Proceedings of International Conference on Computational Intelligence and Sustainable Engineering Solution, CISES 2022			590	595	10.1109/CI SES54857. 2022.98443 63	Confere nce Paper	SCOPUS
306	Sharma, R., Raman, R., Yadav, O., Khan, M.S., Yadav, V.K.	Thermal Comfort and Energy Efficient Design of a Central Air Conditioning System of an Educational Institute	2022	Lecture Notes in Mechanical Engineering			143	159	10.1007/97 8-981-16- 3428-4_12	Confere nce Paper	SCOPUS
307	Kumar, P., Mishra, S.	Thermodynamic Analysis of N2O Transcritical Cycle Using Dedicated Mechanical Subcooling	2022	Smart Innovation, Systems and Technologies	239		55	66	10.1007/97 8-981-16- 2857-3_8	Confere nce Paper	SCOPUS
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310	Garg, S.K., Kumar, V., Sisodia, N.K.	Two-Warehouse Inventory Model for Perishable Items with Variable Demand Under Inflationary Environment	2022	Lecture Notes in Mechanical Engineering			57	68	10.1007/97 8-981-16- 3330-0_5	Confere nce Paper	SCOPUS
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327	Gautam, R., Ansari, N.A., Thakur, P., Sharma, A., Singh, Y.	Status of biofuel in India with production and performance characteristics: a review	2022	International Journal of Ambient Energy	43	1	61	77	10.1080/01 430750.201 9.1630298	Review	SCOPUS
328	Gupta, C., Singh, L., Tiwari, R.	Wormhole attack detection techniques in ad-hoc network: A systematic review	2022	Open Computer Science	12	1	260	288	10.1515/co mp-2022- 0245	Review	SCOPUS

