

List of 2021 Publications in SCI/SCOPUS

S. No.	Authors	Title	Year	Name of Journal/Proceeding	Volume	Issue	Page start	Page end	DOI	Document Type	Indexing
1.	Saravanan, S., Syed Ali, M., Rajchakit, G., Hammachukiatitikul, B., Priya, B., Thakur, G.K.	Finite-Time Stability Analysis of Switched Genetic Regulatory Networks with Time-Varying Delays via Wirtinger's Integral Inequality	2021	Complexity	2021				10.1155/2021/9540548	Article	SCI
2.	Kumar, A., Pal, V., Mishra, S.K.	Preparation, microstructure, dielectric and electrical analysis of Fe-modified PZT piezoceramics	2021	Journal of Materials Science: Materials in Electronics	32	3	2946	2952	10.1007/s10854-020-05046-3	Article	SCI
3.	Parida, S.	Improving heterogeneously catalyzed transesterification reaction for biodiesel production using ultrasound energy and petrodiesel as cosolvent	2021	Energy Sources, Part A: Recovery, Utilization and Environmental Effects					10.1080/15567036.2021.1889723	Article	SCI
4.	Kumar Thakur, G., Syed Ali, M., Priya, B., Gokulakrishnan, V., Kauser, S.A.	Impulsive effects on stochastic bidirectional associative memory neural networks with reaction-diffusion and leakage delays	2021	International Journal of Computer Mathematics					10.1080/00207160.2021.1999428	Article	SCI
5.	Priya, B., Ali, M.S., Thakur, G.K., Sanober, S., Dhupia, B.	pth moment exponential stability of memristor Cohen–Grossberg BAM neural networks with time-varying delays and reaction–diffusion	2021	Chinese Journal of Physics	74		184	194	10.1016/j.cjph.2021.06.027	Article	SCI
6.	Syed Ali, M., Narayanan, G., Saroha, S., Priya, B., Thakur, G.K.	Finite-time stability analysis of fractional-order memristive fuzzy cellular neural networks with time delay and leakage term	2021	Mathematics and Computers in Simulation	185		468	485	10.1016/j.matcom.2020.12.035	Article	SCI
7.	Ali, M.S., Agalya, R., Priya, B., Thakur, G.K., Shekher, V.	Stability analysis of quasi one-sided Lipschitz non-linear multi-agent system via sampled data control subject to directed switching topology	2021	IMA Journal of Mathematical Control and Information	38	3	783	793	10.1093/imamci/dnab005	Article	SCI
8.	Saxena, P., Shukla, P.	Studies of the effect of temperature on charge accumulation in PVDF-PMMA double-layered thin films based on depolarization current measurements	2021	Journal of Elastomers and Plastics	53	7	886	901	10.1177/0095244321996401	Article	SCI

9.	Saxena, P., Shukla, P.	A comparative analysis of the basic properties and applications of poly (vinylidene fluoride) (PVDF) and poly (methyl methacrylate) (PMMA)	2021	Polymer Bulletin						10.1007/s00289-021-03790-y	Review	SCI
10.	Saxena, P., Shukla, P., Gaur, M.S.	Thermal analysis of polymer blends and double layer by DSC	2021	Polymers and Polymer Composites	29	9	S11	S18		10.1177/0967391120984606	Article	SCI
11.	Shukla, P., Saxena, P.	Polymer Nanocomposites in Sensor Applications: A Review on Present Trends and Future Scope	2021	Chinese Journal of Polymer Science (English Edition)	39	6	665	691		10.1007/s10118-021-2553-8	Review	SCI
12.	Shukla, P., Saxena, P., Bhatia, V., Jain, V.K.	Electrostatic deposition and functionalization of CVD grown multiwalled carbon nanotubes for sensitive & selective detection of CO and NOx at room temperature	2021	Analytica Chimica Acta	1177					10.1016/j.aca.2021.338766	Article	SCI
13.	Shukla, P., Saxena, P., Madhwal, D., Bhardwaj, N., Jain, V.K.	Prototyping of a highly sensitive and selective chemiresistive sensor based on pencil graphite for the rapid detection of NO ₂ and NH ₃	2021	New Journal of Chemistry	45	5	2804	2813		10.1039/d0nj05594h	Article	SCI
14.	Shukla, P., Saxena, P., Madhwal, D., Bhardwaj, N., Jain, V.K.	Battery-operated resistive sensor based on electrochemically exfoliated pencil graphite core for room temperature detection of LPG	2021	Sensors and Actuators, B: Chemical	343					10.1016/j.snb.2021.130133	Article	SCI
15.	Sharma, S., Kumar, A., Singh, K.S., Tyagi, H.K.	2D photonic crystal based biosensor for the detection of chikungunya virus	2021	Optik	237					10.1016/j.ijleo.2021.166575	Article	SCI
16.	Prasad, R., Singh, M., Yadav, A.K., Beesham, A.	An exact solution of the observable universe in Bianchi V space-time	2021	International Journal of Modern Physics A	36	6				10.1142/S0217751X21500445	Article	SCI
17.	Yadav, A.K., Yadav, A.K., Singh, M., Prasad, R., Ahmad, N., Singh, K.P.	Constraining a bulk viscous Bianchi type I dark energy dominated universe with recent observational data	2021	Physical Review D	104	6				10.1103/PhysRevD.104.064044	Article	SCI
18.	Khandelwal, A., Singh, M., Singh, R., Shrivastava, M.	Dendritic polyurea microcapsule: a slow release nitrogenous fertilizer	2021	Iranian Polymer Journal (English Edition)	30	12	1309	1316		10.1007/s13726-021-00968-z	Article	SCI
19.	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)	2021	Archives of Computational Methods in Engineering						10.1007/s11831-021-09647-x	Article	SCI

20.	Awasthi, S., Kumar, N., Srivastava, P.K., Ojha, R.P.	Analysis of epidemic model for performance evaluation of rechargeable wireless sensor network	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jer.ICCEMM E.15847	Article	SCI
21.	Kumar, R., Joshi, S., Dwivedi, A.	CNN-SSPSO: A Hybrid and Optimized CNN Approach for Peripheral Blood Cell Image Recognition and Classification	2021	International Journal of Pattern Recognition and Artificial Intelligence	35	5			10.1142/S0218001421570044	Article	SCI
22.	Singh, N., Kumar, T., Vardhan, M.	Blockchain-based e-cheque clearing framework with trust based consensus mechanism	2021	Cluster Computing	24	2	851	865	10.1007/s10586-020-03163-6	Article	SCI
23.	Raheja, S., Obaidat, M.S., Sadoun, B., Malik, S., Rani, A., Kumar, M., Stephan, T.	Modeling and simulation of urban air quality with a 2-phase assessment technique	2021	Simulation Modelling Practice and Theory	109				10.1016/j.simpat.2021.102281	Article	SCI
24.	Rani, A., Jain, A., Kumar, M.	Identification of copy-move and splicing based forgeries using advanced SURF and revised template matching	2021	Multimedia Tools and Applications	80	16	23877	23898	10.1007/s1042-021-10810-6	Article	SCI
25.	Chakradar, M., Aggarwal, A., Cheng, X., Rani, A., Kumar, M., Shankar, A.	A Non-invasive Approach to Identify Insulin Resistance with Triglycerides and HDL-c Ratio Using Machine learning	2021	Neural Processing Letters					10.1007/s1063-021-10461-6	Article	SCI
26.	Chowdhary, S.K., Rao, A.L.N.	QoS Enhancement in Cloud-IoT Framework for Educational Institution with Task Allocation and Scheduling with Task-VM Matching Approach	2021	Wireless Personal Communications	121	1	267	286	10.1007/s1277-021-08634-6	Article	SCI
27.	Ojha, R.P., Srivastava, P.K., Sanyal, G., Gupta, N.	Improved Model for the Stability Analysis of Wireless Sensor Network Against Malware Attacks	2021	Wireless Personal Communications	116	3	2525	2548	10.1007/s1277-020-07809-x	Article	SCI
28.	Yadav, S.K., Sharma, K., Kumar, C., Arora, A.	Blockchain-based synergistic solution to current cybersecurity frameworks	2021	Multimedia Tools and Applications					10.1007/s1042-021-11465-z	Article	SCI
29.	Sharma, S.K., Sharma, V., Mohamed, H.I., Khan, H., Ahmed, S.S.	Supervise the physicochemical quality of ground water using soft computing technique	2021	Environmental Technology (United Kingdom)					10.1080/0959330.2021.1983023	Article	SCI
30.	Shukla, A.K.	Feature selection inspired by human intelligence for improving classification	2021	Computational Intelligence	37	4	1571	1598	10.1111/coin.12341	Article	SCI

		accuracy of cancer types										
31.	Chauhan, N., Banka, H., Agrawal, R.	Adaptive bandwidth adjustment for resource constrained services in fog queueing system	2021	Cluster Computing	24	4	3837	3850	10.1007/s10586-021-03378-1	Article	SCI	
32.	Chauhan, N., Banka, H., Agrawal, R.	Delay-aware application offloading in fog environment using multi-class Brownian model	2021	Wireless Networks	27	7	4479	4495	10.1007/s11276-021-02724-w	Article	SCI	
33.	Choudhary, S., Sharma, A., Mishra, A.	Experimental investigation and statistical analysis of low frequency RFID system	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jerr.ICCEMM E.15555	Article	SCI	
34.	Choudhary, S., Sugumaran, S., Belazi, A., El-Latif, A.A.A.	Linearly decreasing inertia weight PSO and improved weight factor-based clustering algorithm for wireless sensor networks	2021	Journal of Ambient Intelligence and Humanized Computing					10.1007/s12652-021-03534-w	Article	SCI	
35.	Joshi, M., Mohit, P., Ranjan, A.	n-th-Order Simple Hyperjerk System with Unstable Equilibrium and Its Application as RPG	2021	Circuits, Systems, and Signal Processing	40	12	5913	5934	10.1007/s00034-021-01752-3	Article	SCI	
36.	Sharma, D., Singhal, S., Rai, A., Singh, A.	Analysis of power consumption in standalone 5G network and enhancement in energy efficiency using a novel routing protocol	2021	Sustainable Energy, Grids and Networks	26				10.1016/j.segan.2020.100427	Article	SCI	
37.	Sharma, S., Singh, B.	Network Planning in Deep Fading Area is a Research Challenge	2021	Wireless Personal Communications	117	3	2273	2284	10.1007/s11277-020-07971-2	Article	SCI	
38.	Tiwari, R.N., Singh, P., Pandey, S., Anand, R., Singh, D.K., Kanaujia, B.K.	Swastika shaped slot embedded two port dual frequency band MIMO antenna for wireless applications	2021	Analog Integrated Circuits and Signal Processing	109	1	103	113	10.1007/s10470-021-01923-x	Article	SCI	
39.	Singh, K.K., Yadav, P., Singh, A., Dhiman, G., Cengiz, K.	Cooperative spectrum sensing optimization for cognitive radio in 6G networks	2021	Computers and Electrical Engineering	95				10.1016/j.compeleceng.2021.107378	Article	SCI	
40.	Yadav, P., Maheshwari, K., Lal, A.K., Agrawal, R.	Network Planning for Deep Fading Area at 1.8 GHz LTE Network	2021	Wireless Personal Communications	116	3	2223	2237	10.1007/s11277-020-07788-z	Article	SCI	
41.	Kumar, N., Malik, H., Singh, A., Alotaibi, M.A., Nassar, M.E.	Novel Neural Network-Based Load Frequency Control Scheme: A Case Study of Restructured Power System	2021	IEEE Access	9		162231	162242	10.1109/ACCESS.2021.31333360	Article	SCI	

42.	Kumar, A., Sadhu, P.K., Singh, J.	Implementation and comparative analysis of time equivalent space vector PWM method for 3 phase to 3 phase matrix converter	2021	Journal Europeen des Systemes Automatises	54	4	617	622	10.18280/jessa.540411	Article	SCI
43.	Sengar, R.S., Chatterjee, K., Singh, J.	System Approximation via Restructured Hankel Matrix	2021	Circuits, Systems, and Signal Processing	40	12	6354	6370	10.1007/s00034-021-01745-2	Article	SCI
44.	Sharma, M., Vashist, P.C., Ashtankar, P.S., Mittal, S.K.	Compact $2 \times 2/4 \times 4$ tapered microstrip feed MIMO antenna configuration for high-speed wireless applications with band stop filters	2021	International Journal of RF and Microwave Computer-Aided Engineering	31	1			10.1002/mce.22500	Article	SCI
45.	Jude, A.B., Singh, D., Islam, S., Jameel, M., Srivastava, S., Prabha, B., Kshirsagar, P.R.	An Artificial Intelligence Based Predictive Approach for Smart Waste Management	2021	Wireless Personal Communications					10.1007/s1277-021-08803-7	Article	SCI
46.	Sahni, V., Srivastava, S., Khan, R.	Modelling Techniques to Improve the Quality of Food Using Artificial Intelligence	2021	Journal of Food Quality	2021				10.1155/2021/2140010	Review	SCI
47.	Kumar Srivastava, A., Kumar, N., Rai Dixit, A.	Friction stir additive manufacturing – An innovative tool to enhance mechanical and microstructural properties	2021	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	263				10.1016/j.mseb.2020.114832	Review	SCI
48.	Singh, A.K., Amardeep, Yadav, V.K.	Analysis of performance, emission and combustion characteristics of a single cylinder VCR engine when run on blends of 1-octanol and diesel	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jerr.ICCEMM E.15723	Article	SCI
49.	Chauhan, S., Kumar, C., Gupta, A., Rastogi, V.	Effect of asymmetries of stiffness and mass on parametric instabilities of hollow rotor system	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jerr.ICCEMM E.15745	Article	SCI

50.	Saxena, A., Dwivedi, S.P., Dixit, A., Sharma, S., Srivastava, A.K., Maurya, N.K.	Computational and experimental investigation on mechanical behavior of zirconia toughened alumina and nickel powder reinforced EN31 based composite material [Rechnerische und experimentelle Untersuchungen zum mechanischen Verhalten von 100Cr6 basiertem Verbundwerkstoff verstärkt durch Zirkonoxid duktilisiertes Aluminiumoxid und Nickelpulver]	2021	Materialwissenschaft und Werkstofftechnik	52	5	548	560	10.1002/ma we.202000152	Article	SCI
51.	Saxena, A., Dwivedi, S.P., Sharma, S., Srivastava, V.S., Singh, G., Singh, J., Chattopadhyaya, S., Pruncu, C.I.	A comparative numerical analysis on the effect of welding consumables on the ballistic resistance of SMAW joints of Armor steel	2021	Applied Sciences (Switzerland)	11	8			10.3390/ap p11083629	Article	SCI
52.	Sharma, S., Singh, J., Gupta, M.K., Mia, M., Dwivedi, S.P., Saxena, A., Chattopadhyaya, S., Singh, R., Pimenov, D.Y., Korkmaz, M.E.	Investigation on mechanical, tribological and microstructural properties of Al-Mg-Si-T6/SiC/muscovite-hybrid metal-matrix composites for high strength applications	2021	Journal of Materials Research and Technology	12		1564	1581	10.1016/j.j mrt.2021.03.095	Article	SCI
53.	Singla, N., Singla, S., Thind, P.S., Singh, S., Chohan, J.S., Kumar, R., Sharma, S., Chattopadhyaya, S., Dwivedi, S.P., Saxena, A., Issakhov, A., Khalilpoor, N.	Assessing the Applicability of Photocatalytic-Concrete Blocks in Reducing the Concentration of Ambient NO ₂ of Chandigarh, India, Using Box-Behnken Response Surface Design Technique: A Holistic Sustainable Development Approach	2021	Journal of Chemistry	2021				10.1155/2021/6468749	Article	SCI
54.	Shashi Prakash Dwivedi, Ambuj Saxena and Nitin Srivastava	Effects of MgO Powder addition on mechanical, physical and thermal properties of Al waste bagasse composite	2021	Materialprüfungs/Materials Testing					https://doi.org/10.1515/mt-2020-0079	Article	SCI
55.	Butola, R., Kumar, R., Choudhary, N., Zubair, M., Dwivedi, S.P.	Optimisation of FSP process parameters of surface composites using GRA and Taguchi approach	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jer.ICCEMM E.15689	Article	SCI

56.	Chohan, J.S., Mittal, N., Kumar, R., Singh, S., Sharma, S., Dwivedi, S.P., Saxena, A., Chattopadhyaya, S., Ilyas, R.A., Le, C.H., Wojciechowski, S.	Optimization of fff process parameters by naked mole-rat algorithms with enhanced exploration and exploitation capabilities	2021	Polymers	13	11			10.3390/polym13111702	Article	SCI
57.	Dwivedi, S.P., Agrawal, R., Sharma, S.	Effect of Friction Stir Process Parameters on Mechanical Properties of Chrome Containing Leather Waste Reinforced Aluminium Based Composite	2021	International Journal of Precision Engineering and Manufacturing - Green Technology	8	3	935	943	10.1007/s40684-021-00312-z	Article	SCI
58.	Dwivedi, S.P., Maurya, M., Saxena, A., Sharma, S.	Synthesis and characterization of spent alumina catalyst and grinding sludge reinforced aluminium-based composite material	2021	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science					10.1177/09544062211061451	Article	SCI
59.	Dwivedi, S.P., Maurya, M., Sharma, S.	Synthesis and Characterization of Cr, Eggshell and Grinding Sludge Reinforced Aluminum Based Metal Matrix Composites: An Ingenious Experimental Approach	2021	Green Materials					10.1680/jgrma.21.00035	Article	SCI
60.	Dwivedi, S.P., Saxena, A., Kumaraswamy, A., Sahu, R.	Synthesis and characterisation of waste SAC- And RHA-reinforced aluminium-based composite	2021	Green Materials					10.1680/jgrma.20.00042	Article	SCI
61.	Dwivedi, S.P., Saxena, A., Sharma, S., Singh, G., Singh, J., Mia, M., Chattopadhyaya, S., Pramanik, A., Pimenov, D.Y., Wojciechowski, S.	Effect of ball-milling process parameters on mechanical properties of Al/Al ₂ O ₃ /collagen powder composite using statistical approach	2021	Journal of Materials Research and Technology	15		2918	2932	10.1016/j.jmrt.2021.09.082	Article	SCI
62.	Dwivedi, S.P., Saxena, A., Sharma, S., Srivastava, A.K., Maurya, N.K.	Influence of SAC and eggshell addition in the physical, mechanical and thermal behaviour of Cr reinforced aluminium based composite	2021	International Journal of Cast Metals Research	34	1	43	55	10.1080/13640461.2021.1877943	Article	SCI

63.	Dwivedi, Shashi Prakash, Maurya, Nagendra Kumar, Maurya, Manish, Saxena, Ambuj and Srivastava, Ashish Kumar	Optimization of casting parameters for improved mechanical properties of eggshell reinforced composites	2021	Materialpruefung/Materials Testing					https://doi.org/10.1515/mt-2021-0044	Article	SCI
64.	Ghosh, P.S., Sen, A., Chattopadhyaya, S., Sharma, S., Singh, J., Dwivedi, S.P., Saxena, A., Khan, A.M., Pimenov, D.Y., Giasin, K.	Prediction of transient temperature distributions for laser welding of dissimilar metals	2021	Applied Sciences (Switzerland)	11	13			10.3390/ap11135829	Article	SCI
65.	Kaur, G., Brar, Y.S., Kaur, J., Gupta, A., Sharma, K.K., Chohan, J.S., Kumar, R., Sharma, S., Chattopadhyaya, S., Dwivedi, S.P., Issakhov, A., Khalilpoor, N.	Management of Cattle Dung and Novel Bioelectricity Generation Using Microbial Fuel Cells: An Ingenious Experimental Approach	2021	International Journal of Chemical Engineering	2021				10.1155/2021/5536221	Article	SCI
66.	Khare, J.M., Dahiya, S., Gangil, B., Ranakoti, L., Sharma, S., Huzaifah, M.R.M., Ilyas, R.A., Dwivedi, S.P., Chattopadhyaya, S., Kilinc, H.C., Li, C.	Comparative analysis of erosive wear behaviour of epoxy, polyester and vinyl esters based thermosetting polymer composites for human prosthetic applications using taguchi design	2021	Polymers	13	20			10.3390/polym13203607	Article	SCI
67.	Sharma, K.K., Gupta, A., Kumar, R., Chohan, J.S., Sharma, S., Singh, J., Khalilpoor, N., Issakhov, A., Chattopadhyaya, S., Dwivedi, S.P.	Economic evaluation of a hybrid renewable energy system (HRES) using hybrid optimization model for electric renewable (HOMER) software-a case study of rural India	2021	International Journal of Low-Carbon Technologies	16	3	814	821	10.1093/ijlct/ctab012	Article	SCI
68.	Gupta, A., Rastogi, V.	Effect of Distributed Damping on the Dynamic Behavior of Flexible Chassis of Heavy Road Vehicle Under Standardized Random Road Responses	2021	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	45	4	1071	1090	10.1007/s40997-020-00366-5	Article	SCI

69.	Maurya, N.K., Rastogi, V., Singh, P.	Experimental and computational analysis of mechanical properties of RGD840 material manufactured through PolyJet process	2021	Rapid Prototyping Journal	27	1	207	214	10.1108/RP-J-03-2020-0049	Article	SCI
70.	Maurya, N.K., Srivastava, A.K., Saxena, A., Dwivedi, S.P., Ashraf Ali, M., Mustafa, J.	Experimental investigation on the effect of laser powder bed fusion process variables on dimensional accuracy, surface roughness and cylindricity of the AlSi10Mg alloy component	2021	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering					10.1177/09544089211039046	Article	SCI
71.	Maurya, R.K., Niranjan, M.S.	Experimental analysis of mechanical behaviour and residual stresses of EN-36C alloy steel with and without tempering	2021	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering					10.1177/09544089211038447	Article	SCI
72.	Sahu, M.K., Priyam, A., Mishra, S., Bishnoi, P.	A detailed review on research, technology, configurations and application of wire ribs as artificial roughness in rectangular solar air heater duct	2021	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	235	4	1211	1234	10.1177/0954408921995140	Review	SCI
73.	Chaudhary, V., Das, P.P., Sahu, R., Srinivas, K., Dwivedi, V.K.	An investigation on thermal and chemical behavior of jute/hemp/flax fiber reinforced woven composites and its hybrids	2021	Journal of Engineering Research (Kuwait)	9		1	15	10.36909/jerr.ICCEMM E.15753	Article	SCI
74.	Das, P.P., Sahu, R., Chaudhary, V., Srinivas, K., Dwivedi, S.P.	Physico-mechanical and morphological studies of jute/glass reinforced epoxy composites and its hybrids	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jerr.ICCEMM E.15859	Article	SCI
75.	Soni, S.K., Rajput, S.K., Yadav, P.K., Sahu, R.	Microstructural evolution and mechanical properties of LM6 Al alloy	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jerr.ICCEMM E.15699	Article	SCI
76.	MORCHHAL E, A., BADRISH, A., KOTKUNDE, N., SINGH, S.K., KHANNA, N., SAXENA, A., NIKHARE, C.	Prediction of fracture limits of Ni-Cr based alloy under warm forming condition using ductile damage models and numerical method	2021	Transactions of Nonferrous Metals Society of China (English Edition)	31	8	2372	2387	10.1016/S1003-6326(21)65660-1	Article	SCI
77.	Mulabagal, P., Kumaraswamy, A., Saxena, A.	Numerical investigation of penetration characteristics of preformed spherical fragments at hyper velocity	2021	Journal of Engineering Research (Kuwait)	9				10.36909/jerr.ICCEMM E.15597	Article	SCI

78.	Saxena, A., Dwivedi, S.P., Maurya, N.K., Srivastava, A.K.	Investigation on mechanical properties and deformation behavior of copper-based three-phase metal matrix composite: Experimental and micro-macro-mechanical finite element analysis	2021	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	235	8	1850	1867	10.1177/14644207211009254	Article	SCI
79.	Kumar, M., Ansari, N.A., Sharma, A., Singh, V.K., Gautam, R., Singh, Y.	Prediction of an optimum engine response based on different input parameters on common rail direct injection diesel engine: A response surface methodology approach	2021	Scientia Iranica	28	6	3181	3200	10.24200/sci.2021.56745.4885	Article	SCI
80.	Rastogi, P.M., Sharma, A., Kumar, N.	Effect of CuO nanoparticles concentration on the performance and emission characteristics of the diesel engine running on jojoba (Simmondsia Chinensis) biodiesel	2021	Fuel	286				10.1016/j.fuel.2020.119358	Article	SCI
81.	Sharma, A., Singh, Y., Gupta, S.K., Singh, N.K.	Application of response surface methodology to optimize diesel engine parameters fuelled with pongamia biodiesel/diesel blends	2021	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	43	2	133	144	10.1080/15567036.2019.1623949	Article	SCI
82.	Sharma, A., Singh, Y., Tyagi, A., Singh, N.K., Singla, A.	Application of Taguchi and response surface methodology approach to a sustainable model developed for a compression-ignition engine using polanga biodiesel/diesel blends	2021	Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering	235	6	854	868	10.1177/0959651820965301	Article	SCI
83.	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	2021	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering					10.1177/09544089211043014	Article	SCI
84.	Sharma, A.K., Sharma, A., Singh, Y., Chen, W.-H.	Production of a sustainable fuel from microalgae Chlorella minutissima grown in a 1500 L open raceway ponds	2021	Biomass and Bioenergy	149				10.1016/j.biombioe.2021.1106073	Article	SCI
85.	Singh Pali, H., Sharma, A., Kumar, N., Singh, Y.	Biodiesel yield and properties optimization from Kusum oil by RSM	2021	Fuel	291				10.1016/j.fuel.2021.120218	Article	SCI

86.	Singh, N.K., Singh, Y., Sharma, A., Chinnasamy, V., Palamanit, A.	Rheological characteristics and tribological performance of neem biodiesel-based nano oil added with MWCNT	2021	Biomass Conversion and Biorefinery						10.1007/s13399-021-01919-7	Article	SCI
87.	Singh, N.K., Singh, Y., Sharma, A., Paswan, M.K., Singh, V.K., Upadhyay, A.K., Mishra, V.R.	Performance of CuO nanoparticles as an additive to the chemically modified Nicotiana Tabacum as a sustainable coolant-lubricant during turning EN19 steel	2021	Wear	486-487					10.1016/j.wear.2021.204057	Article	SCI
88.	Singh, N.K., Upadhyay, R.K., Singh, Y., Sharma, A.	Electric discharge drilling with gas-assisted multi-hole slotted tool	2021	Scientia Iranica	28	2	795	810		10.24200/SCI.2020.55017.4030	Article	SCI
89.	Singh, V.K., Ansari, N.A., Sharma, A., Gautam, S., Kumar, M., Singh, Y.	Exhaust gas recirculation effect on the performance of a CRDI diesel engine fuelled with linseed biodiesel/diesel blend through response surface methodology	2021	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science						10.1177/09544062211026348	Article	SCI
90.	Singh, Y., Kumar Singh, N., Sharma, A., Singla, A., Singh, D., Abd Rahim, E.	Effect of ZnO nanoparticles concentration as additives to the epoxidized Euphorbia Lathyris oil and their tribological characterization	2021	Fuel	285					10.1016/j.fuel.2020.119148	Article	SCI
91.	Singh, Y., Singh, N.K., Sharma, A., Lila, M.K., Singla, A., Chinnasamy, V.	Brucea Javanica: A novel nonedible feedstock for bio-based lubricant application with the effect of ZrO ₂ nanoparticles	2021	Environmental Progress and Sustainable Energy	40	4				10.1002/ep.13602	Article	SCI
92.	Singh, Y., Singh, N.K., Sharma, A., Singla, A., Upadhyay, A.	Development of epoxidized Moringa oleifera nanolubricant with CeO ₂ nanoparticles as an additive for improving the lubrication characteristics	2021	Biomass Conversion and Biorefinery						10.1007/s13399-021-01911-1	Article	SCI
93.	Singh, Y., Upadhyay, A.K., Singh, N.K., Sharma, A., Singla, A., Kumar, N., Singh, V.	Biodiesel yield enhancement through optimizing process parameters with assistance of solar energy— Taguchi and response surface methodology application	2021	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science						10.1177/09544062211054980	Article	SCI

94.	Akram, W., Singh, Y., Sharma, A., Singh, N.K.	Experimental studies on performance and exhaust emission characteristics of a diesel engine fuelled with diesel-linseed oil methyl ester (LOME) blends	2021	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	43	6	754	768	10.1080/15567036.2019.1632978	Article	SCI
95.	Singh, K.K., Kumar, R., Gupta, A.	Multi-objective Optimization of Thermodynamic and Economic Performances of Natural Refrigerants for Cascade Refrigeration	2021	Arabian Journal for Science and Engineering	46	12	12235	12252	10.1007/s13369-021-05924-w	Article	SCI
96.	Singh, K.K., Kumar, R., Gupta, A.	Comparative exergetic, economic and exergoeconomic analyses of a hybrid cascade refrigeration system using ammonia-propane, propane-propylene and isobutane-propane refrigerant pairs	2021	International Journal of Exergy	36	4-Feb	315	329	10.1504/IJEX.2021.118723	Article	SCI
97.	Srivastava, A.K., Dixit, A.R., Maurya, M., Saxena, A., Maurya, N.K., Dwivedi, S.P., Bajaj, R.	20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys	2021	Materials Chemistry and Physics	266				10.1016/j.matchemphys.2021.124572	Article	SCI
98.	Srivastava, A.K., Kumar, N., Saxena, A., Tiwari, S.	Effect of friction stir processing on microstructural and mechanical properties of lightweight composites and cast metal alloys–A review	2021	International Journal of Cast Metals Research	34	6-Mar	169	195	10.1080/13640461.2021.2014667	Review	SCI
99.	Srivastava, A.K., Maurya, M., Saxena, A., Maurya, N.K., Dwivedi, S.P., Dixit, A.R.	Microstructural and fractographic analysis of A359/Si3N4 surface composite produced by friction stir processing	2021	International Journal of Materials Research	112	1	68	77	10.1515/ijmr-2020-78277753	Article	SCI
100.	Srivastava, A.K., Maurya, N.K., Dixit, A.R., Dwivedi, S.P., Saxena, A., Maurya, M.	Experimental investigations of A359/Si3N4 surface composite produced by multi-pass friction stir processing	2021	Materials Chemistry and Physics	257				10.1016/j.matchemphys.2020.123717	Article	SCI
101.	Srivastava, A.K., Saxena, A., Dixit, A.R.	Investigation on the thermal behaviour of AZ31B/waste eggshell surface composites produced by friction stir processing	2021	Composites Communications	28				10.1016/j.comoco.2021.100912	Article	SCI
102.	Teotia, S., Yadav, V.K., Sharma, S., Yadav, J.P.	Effect of porosity and loading height on the performance of household LPG gas stoves	2021	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process	235	4	997	1004	10.1177/0954408920987024	Article	SCI

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103	Yadav, V.K., Nilam	Risk estimation of gestational diabetes and diabetes mellitus of type -2 because of PCOD through Mathematical and Artificial Intelligence models	2021	Journal of Engineering Research (Kuwait)	9					10.36909/jer.ICCEMM E.15553	Article	SCI
104	Saxena, P., Shukla, P.	A comprehensive review on fundamental properties and applications of poly(vinylidene fluoride) (PVDF)	2021	Advanced Composites and Hybrid Materials	4	1	8	26		10.1007/s42114-021-00217-0	Review	SCI
105	Garg, S.K., Mishra, R., Singh, M.	Non Zero Spin Boundary Conditional Vector of porous sphere flow for fixed micropolar fluids	2021	Journal of Physics: Conference Series	2007	1				10.1088/1742-6596/2007/1/012037	Conference Paper	SCOPUS
106	Joseph, L.M.I.L., Goel, P., Jain, A., Rajyalakshmi, K., Gulati, K., Singh, P.	A Novel Hybrid Deep Learning Algorithm for Smart City Traffic Congestion Predictions	2021	Proceedings of IEEE International Conference on Signal Processing, Computing and Control	2021-October			561	565	10.1109/ISPPCC53510.2021.9609467	Conference Paper	SCOPUS
107	Ojha, R.K., Rao, S.J., Goel, P., Srivastava, S., Kumar, K.H., Prasad, C.	Cross-Game Generalization Approaches for General Video Game Playing using Deep Reinforcement Learning	2021	Proceedings - 2nd International Conference on Smart Electronics and Communication , ICOSEC 2021						10.1109/ICSECC51865.2021.9591846	Conference Paper	SCOPUS
108	Kumar, A., Mishra, R.	Efficiency Analysis of Random and Fractal Effect on Reaction-Diffusion Equation	2021	Journal of Physics: Conference Series	2007	1				10.1088/1742-6596/2007/1/012029	Conference Paper	SCOPUS
109	Kumar, A., Tiwari, B.K., Mishra, M., Kumar, N.	(E)-N-(3,4-dimethylisoxazol-5-yl)-4-((4-hydroxy-2-oxo-2H-chromen-3-yl) diazenyl)Benzenesulfonamide; A new synthetic anti-herpetic agent for HSV-1	2021	Evergreen	8	2	351	357		10.5109/4480717	Article	SCOPUS
110	Kumar, S., Bansal, M.K., Kumar, V., Kumar, A.	Thickness modulated optoelectronic properties of SnSe thin films prepared by CBD	2021	Materials Today: Proceedings	47		3927	3929		10.1016/j.matpr.2021.03.633	Conference Paper	SCOPUS
111	Mishra, A., Dharmendra, K.	Pressure-volume relationships of some solids based on double potential energy functions	2021	Journal of Physics: Conference Series	2007	1				10.1088/1742-6596/2007/1/012007	Conference Paper	SCOPUS

112	Kumar, M., Gupta, M.K., Mishra, R.K., Dubey, S.S., Kumar, A., Hardeep	Security Analysis of a Threshold Quantum State Sharing Scheme of an Arbitrary Single-Qudit Based on Lagrange Interpolation Method	2021	Lecture Notes in Electrical Engineering	694		373	389	10.1007/978-981-15-7804-5_28	Conference Paper	SCOPUS
113	Bangare, S.L., Prakash, S., Gulati, K., Veeru, B., Dhiman, G., Jaiswal, S.	The Architecture, Classification, and Unsolved Research Issues of Big Data extraction as well as decomposing the Internet of Vehicles (IoV)	2021	Proceedings of IEEE International Conference on Signal Processing, Computing and Control	2021-October		566	571	10.1109/IS-PCC53510.2021.9609451	Conference Paper	SCOPUS
114	Thakur, G.K., Usha, M., Ali, M.S., Priya, B., Kausar, S.A.	Dissipative-based synchronization of Markovian jumping complex dynamical networks with additive time-varying delays, reaction-diffusion terms, uncertainties, and sampled-data control	2021	Mathematical Methods in the Applied Sciences					10.1002/ma.7880	Conference Paper	SCOPUS
115	Ali, M.S., Hymavathi, M., Priya, B., Kausar, S.A., Thakur, G.K.	Stability analysis of stochastic fractional-order competitive neural networks with leakage delay	2021	AIMS Mathematics	6	4	3205	3241	10.3934/math.2021193	Article	SCOPUS
116	Rani, P.	Analysis on different energy conservation methods	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012009	Conference Paper	SCOPUS
117	Saxena, P.	Dielectric properties of High-Density Polyethylene foil samples at low frequency	2021	Materials Today: Proceedings	47		3700	3702	10.1016/j.matpr.2021.01.736	Conference Paper	SCOPUS
118	Saxena, P.	Electret thermal analysis of biopolymers	2021	Materials Today: Proceedings	47		3726	3729	10.1016/j.matpr.2021.02.170	Conference Paper	SCOPUS
119	Sharma, R.R.	Hypergeometric interpretation of the modified Beta Stancu operator	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012027	Conference Paper	SCOPUS
120	Sharma, R.R., Mishra, R.K., Garg, S.K.	The Q- MBS Operators in a linear positive operator Voronovskaya style asymptotic formula	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012064	Conference Paper	SCOPUS
121	Sharma, S., Gupta, S.	Detection of Albumin and Urea Concentration in Urine Using 2d Photonic Crystals	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012015	Conference Paper	SCOPUS
122	Sharma, S., Kumar, V., Gupta, S.	Tunable Transmittance Using Temperature Dependence ZnS-Based ID Photonic Crystals	2021	Lecture Notes in Electrical Engineering	721	LNEE	325	330	10.1007/978-981-15-9938-5_31	Conference Paper	SCOPUS
123	Kumar Singh, A., Kumar, P., Srivastava, B.K., Yadav, R.K., Singh, M., Kumar,	Comparative observation of energy matrix and environ-economy for solar still systems	2021	Materials Today: Proceedings	47		3730	3734	10.1016/j.matpr.2021.02.219	Conference Paper	SCOPUS

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124.	Singh, A.K., Dwivedi, G., Srivastava, B.Kr., Tiwari, B.K., Kumar, P., Yadav, R.K., Singh, M., Shukla, A.Kr., Nandan, G.	Study of analytical observations on energy matrix for solar stills	2021	Materials Today: Proceedings	49		320	325	10.1016/j.m atpr.2021.0 2.109	Confere nce Paper	SCOPUS
125	Vimal	The Analysis of Scattering for Transverse Electric by Perfectly Conducting Connected Strips at Node	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012025	Confere nce Paper	SCOPUS
126	Dipti, B., Rahul, S., Charu, A.	Study on effect of variation of geographical and climatic conditions on chemical constituents and biological activity of Emblica officinalis	2021	Research Journal of Chemistry and Environment	25	10	114	120		Article	SCOPUS
127.	Gangwar, P., Tiwari, S.	Stabilization of soil with waste plastic bottles	2021	Materials Today: Proceedings	47		3802	3806	10.1016/j.m atpr.2021.0 3.010	Confere nce Paper	SCOPUS
128	Hussain, S., Nanda, S.K., Barigidad, S., Akhtar, S., Suaib, M., Ray, N.K.	Novel Deep Learning Architecture for Predicting Heart Disease using CNN	2021	Proceedings - 2021 19th OITS International Conference on Information Technology, OCIT 2021			353	357	10.1109/O CIT53463. 2021.00076	Confere nce Paper	SCOPUS
129	Ananth Kumar, G., Rishav, G.	CAPTCHA Techniques of Secure Web Authentication: A Survey	2021	Lecture Notes in Networks and Systems	134		97	117	10.1007/97 8-981-15- 5397-4_12	Confere nce Paper	SCOPUS
130	Malik, A., Singh, S., Awasthi, S., Yadav, P.	Gray-Version Invariant Reversible Data Hiding Scheme Based on 2D Histogram Modification for Color Images	2021	Lecture Notes in Electrical Engineering	721 LNEE		343	351	10.1007/97 8-981-15- 9938-5_33	Confere nce Paper	SCOPUS
131.	Bir, P.	Generic quantum hardware accelerators for conventional systems	2021	Advances in Computers	122		97	133	10.1016/bs. adcom.202 1.01.007	Book Chapter	SCOPUS
132	Saurabh, Dhanaraj, R.K.	A Review Paper on Fog Computing Paradigm to solve Problems and Challenges during Integration of Cloud with IoT.	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012017	Confere nce Paper	SCOPUS
133.	Kumar, R., Pradeep, S., Singh, R., Dubey, R., Dwivedi, S.P.	A critical review on different casting technique to develop the composite material and its tribo- mechanical behaviour	2021	Materials Today: Proceedings	47		3895	3900	10.1016/j.m atpr.2021.0 3.551	Confere nce Paper	SCOPUS

134	Dwivedy, B., Bhola, A.K., Jha, C.K.	Clustering Adaptive Elephant Herd Optimization Based Data Dissemination Protocol for VANETs	2021	Evergreen	8	4	812	820	10.5109/4742126	Article	SCOPUS
135	Agarwal, R., Gautam, A., Saksena, A.K., Rai, A., Karatangi, S.V.	Method for mining frequent item sets considering average utility	2021	2021 International Conference on Emerging Smart Computing and Informatics, ESCI 2021			275	278	10.1109/ESCI50559.2021.9396947	Conference Paper	SCOPUS
136	Goyal, M.	Enhancing security in Internet of Things using authentication techniques: A review survey	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012023	Conference Paper	SCOPUS
137	Joshi, T., Gupta, G.	Effect of dynamic loading on hip implant using finite element method	2021	Materials Today: Proceedings	46		10211	10216	10.1016/j.matpr.2020.11.378	Conference Paper	SCOPUS
138	Thakkar, D., Jha, N., Agarwal, D., Anand, S., Pradhan, R.	Inclusive Analysis of Covid-19 disease and Vaccination in India	2021	2021 5th International Conference on Information Systems and Computer Networks, ISCON 2021					10.1109/ISCON52037.2021.9702360	Conference Paper	SCOPUS
139	Mishra, D., Sharma, S.	Statistical Approach for Mining Frequent Item Sets	2021	Communications in Computer and Information Science	1393		658	669	10.1007/978-981-16-3660-8_61	Conference Paper	SCOPUS
140	Mishra, D., Sharma, S.	Performance Analysis of Dimensionality Reduction Techniques: A Comprehensive Review	2021	Lecture Notes in Mechanical Engineering			639	651	10.1007/978-981-16-0942-8_60	Conference Paper	SCOPUS
141	Saini, A., Kumar, R., Kumar, S., Mittal, M.	Prediction of Euclidean distance between existing and target product for software product line testing using FeatureIDE	2021	International Journal of Engineering Systems Modelling and Simulation	12	4	239	251	10.1504/IJESMS.2021.119864	Article	SCOPUS
142	Mishra, A.R., Pippal, S.K., Asif, Kumar, A., Singh, D., Singh, A.	Clear Vision - Obstacle detection using Bat Algorithm Optimization Technique	2021	2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2021					10.1109/ICRITO51393.2021.9596467	Conference Paper	SCOPUS
143	Rani, A., Jain, A.	Digital Image Forensics-Image Verification Techniques	2021	Advances in Intelligent Systems and Computing	1172		221	234	10.1007/978-981-15-5566-4_19	Conference Paper	SCOPUS
144	Yadav, S.K., Sharma, K., Gupta, A.	SafeWomen: A Smart Device to Secure Women's Environment Using ATmega328 with an Android Tracking App	2021	International Journal of Digital Crime and Forensics	13	1	48	64	10.4018/IJDCF.2021010103	Article	SCOPUS

145	Avikal, S., Sharma, K., Barthwal, A., Nithin Kumar, K.C., Kumar Badhotiya, G.	Estimation of age from speech using excitation source features	2021	Materials Today: Proceedings	46		11046	11049	10.1016/j.m atpr.2021.0 2.159	Confere nce Paper	SCOPUS
146	Barthwal, A., Sharma, K.	Analysis and prediction of urban ambient and surface temperatures using internet of things	2021	International Journal of Systems Assurance Engineering and Management					10.1007/s1 3198-021- 01502-3	Article	SCOPUS
147	Dhasarathan, C., Shanmugam, M., Khapre, S.P., Shukla, A.K., Shankar, A.	Blockchain-Enabled Decentralized Reliable Smart Industrial Internet of Things (BCIIoT)	2021	Innovations in the Industrial Internet of Things (IIoT) and Smart Factory			192	204	10.4018/97 8-1-7998- 3375- 8.ch013	Book Chapter	SCOPUS
148	Shukla, A.K., Pippal, S., Singh, D., Reddy, S.R.	An evolutionary- based technique to characterise an anomaly in internet of things networks	2021	International Journal of Internet Technology and Secured Transactions	11	6-May	452	469	10.1504/IJI TST.2021.1 17415	Article	SCOPUS
149	Tyagi, M.K., Sikandar, A., Tyagi, D.K., Kumar, D., Singh, P., Munisamy, S., Reddy, L.S.S.	State Space Modeling of Earned Value Method for Iterative Enhancement Based Traditional Software Projects Tracking	2021	Communication s in Computer and Information Science	1368		336	354	10.1007/97 8-981-16- 0404-1_25	Confere nce Paper	SCOPUS
150	Singh, M.K., Rishi, O.P.	Dynamic knowledge-based recommendation system for E- commerce using deep neural network	2021	Mathematics in Engineering, Science and Aerospace	12	4	1023	1036		Article	SCOPUS
151	Singh, M.K., Rishi, O.P., Singh, A.K., Singh, P., Choudhary, P.	Implementation of Knowledge based Collaborative Filtering and Machine Learning for E-Commerce Recommendation System	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012032	Confere nce Paper	SCOPUS
152	Singh, P.K., Chaudhary, V., Jain, S., Kumar, G.A.	Compare and Contrast of Machine Learning Classification Algorithms to Predict Accuracy and Performance of Lung Cancer Disease	2021	Proceedings of International Conference on Technological Advancements and Innovations, ICTAI 2021			96	101	10.1109/IC TAI53825. 2021.96734 83	Confere nce Paper	SCOPUS
153	Singh, V., Saxena, N., Pathak, D., Saini, G., Bhatnagar, D.	Improving Smart Healthcare Safety and Security Using Kinect	2021	Communication s in Computer and Information Science	1436 CCIS		77	88	10.1007/97 8-3-030- 84842-2_6	Confere nce Paper	SCOPUS
154	Gupta, R., Kukreja, G., Gupta, A., Tyagi, L.	Artificial Intelligence Fostering Fintech: Emerging Trends and Use Cases	2021	Communication s in Computer and Information Science	1436 CCIS		61	73	10.1007/97 8-3-030- 84842-2_5	Confere nce Paper	SCOPUS
155	Tyagi, L.K., Kant, R., Gupta, A.	A Comparative Analysis of Various Local Feature Descriptors in Content-Based Image Retrieval System	2021	Journal of Physics: Conference Series	1854	1			10.1088/17 42- 6596/1854/ 1/012043	Confere nce Paper	SCOPUS

156	Kumar, N., Ahmad, A., Awasthi, S., Sharma, K.	Parameter aware utility proportional fairness scheduling technique in a communication network	2021	International Journal of Innovative Computing and Applications	12	3-Feb	98	107	10.1504/IJICA.2021.113749	Article	SCOPUS
157	Pant, M., Parashar, R., Agarwal, R., Chaudhary, A., Karatangi, S.V.	Crowd Density Teller using Infrared Technology	2021	2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2021					10.1109/ICRITO51393.2021.9596166	Conference Paper	SCOPUS
158	Singh, P., Agrawal, R.	AHP based network selection scheme for heterogeneous network in different traffic scenarios	2021	International Journal of Information Technology (Singapore)	13	6	2505	2513	10.1007/s41870-019-00352-4	Article	SCOPUS
159	Agrawal, R., Sanyal, G., Curran, K., Balas, V.E., Gaur, M.S.	Preface	2021	Communications in Computer and Information Science	1436		v	vi		Editorial	SCOPUS
160	Agrawal, R., Singh, C.K., Goyal, A.	Preface	2021	Lecture Notes in Electrical Engineering	721		v			Editorial	SCOPUS
161	Arya, M., Sehgal, A., Agrawal, R.	Performance Analysis of Deep Transfer Learning for Manifestation of COVID-19 Using Chest X-ray	2021	Lecture Notes in Electrical Engineering	721		117	130	10.1007/978-981-15-9938-5_13	Conference Paper	SCOPUS
162	Mishra, A., Priyadarshini, R., Choudhary, S., Mehra, R.M.	Qualitative analysis of intra-class and inter-class clustering routing and clusterization in wireless sensor network	2021	Evergreen	8	2	358	373	10.5109/4480718	Article	SCOPUS
163	Vats, M., Rai, M., Choudhary, S., Sachan, S., Sharma, M.	Designing of UWB Bandpass Filter by Cascading Highpass and Lowpass Filter	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012030	Conference Paper	SCOPUS
164	Sugumaran, S., Lakshmi, D.N., Choudhary, S.	An Overview of FTTH for Optical Network	2021	Lecture Notes in Electrical Engineering	721		41	51	10.1007/978-981-15-9938-5_6	Conference Paper	SCOPUS
165	Joshi, M., Kirti, Thakur, P.	Design and Implementation of Third Order Oscillator using CFOA and OTA	2021	International Conference on Electrical, Computer, and Energy Technologies, ICECET 2021					10.1109/ICECET5253.2021.9698785	Conference Paper	SCOPUS
166	Sharma, H.P., Agarwal, R., Pant, M., Karatangi, S.V.	Self-directed robot for car driving using genetic algorithm	2021	2021 3rd International Conference on Signal Processing and Communication, ICPSC 2021			285	288	10.1109/ICSPSC51351.2021.9451804	Conference Paper	SCOPUS
167	Moiz, A., Gupta, A., Akhtar, M.D.A., Agarwal, N., Kirti	FPGA based ECG Denoising: Current Status and Future Technologies	2021	Proceedings of IEEE International Conference on Signal Processing, Computing and Control	2021-	October	66	71	10.1109/ISPC53510.2021.9609422	Conference Paper	SCOPUS

168	Kundu, K., Dubey, A., Dhama, A., Pathak, N.N.	Planar inverted F Antenna, PIFA array in 5G applications	2021	Journal of Physics: Conference Series	2062	1			10.1088/17 42- 6596/2062/ 1/012002	Confere nce Paper	SCOPUS
169	Mishra, P.K., Rai, A., Rai, M., Prakash, A.	SPICE Based Design and Implementation of Digital Circuits Using GALEOR Technique	2021	Lecture Notes in Electrical Engineering	721 LNEE		703	712	10.1007/97 8-981-15- 9938-5_65	Confere nce Paper	SCOPUS
170	Priya, A., Rai, A., Singh, R.P.	Internet of Things: Architecture, Applications and Future Aspects	2021	Lecture Notes in Electrical Engineering	721 LNEE		183	190	10.1007/97 8-981-15- 9938-5_18	Confere nce Paper	SCOPUS
171	Rai, A., Agrawal, R., Karatangi, S.V., Nayak, S.	Real Time Vehicle Recognition System for Secure Environment	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012049	Confere nce Paper	SCOPUS
172	Rai, A., Sharma, D., Rai, S., Singh, A., Singh, K.K.	IoT-Aided Robotics Development and Applications with AI	2021	Advances in Science, Technology and Innovation			1	14	10.1007/97 8-3-030- 66222-6_1	Book Chapter	SCOPUS
173	Rai, A., Shylaja, C., Singh, T., Trivedi, S.	Design and Development of Ultra-Violet Light Disinfectant Robot	2021	2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2021					10.1109/IC RITO51393 .2021.9596 288	Confere nce Paper	SCOPUS
174	Rusia, K., Rai, S., Rai, A., Kumar Karatangi, S.V.	Artificial Intelligence and Robotics: Impact Open issues of automation in Workplace	2021	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021			54	59	10.1109/IC ACITE512 22.2021.94 04749	Confere nce Paper	SCOPUS
175	Tiwari, M., Ranjan, K.A., Sehgal, A., Kumar, A., Srivastava, S.	LoRa-Based Wireless Automation and Monitoring System	2021	Lecture Notes in Electrical Engineering	721 LNEE		233	246	10.1007/97 8-981-15- 9938-5_23	Confere nce Paper	SCOPUS
176	Shylaja, C., Rai, A., Mishra, P.K.	Modelling and Simulation of 16-bit Vedic Multiplication Using FPGA	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012003	Confere nce Paper	SCOPUS
177	Kumar, N., Singh, D.K.	Steganography Using Block Pattern Detection in AMBTC Image	2021	Lecture Notes in Electrical Engineering	721 LNEE		723	734	10.1007/97 8-981-15- 9938-5_67	Confere nce Paper	SCOPUS
178	Ravela, R.R., Singh, D.K., Singh, J.	Performance Analysis of Smart PMSM Drive Using SVM Based 3- Level Neutral Point Clamped Inverter	2021	Lecture Notes in Electrical Engineering	721 LNEE		441	451	10.1007/97 8-981-15- 9938-5_42	Confere nce Paper	SCOPUS
179	Satyender, Dhull, S.K., Singh, K.K.	A Review on Automatic Epilepsy Detection from EEG Signals	2021	Lecture Notes in Electrical Engineering	668		1441	1454	10.1007/97 8-981-15- 5341-7_110	Confere nce Paper	SCOPUS

180	Singh, M., Tyagi, K.D.	Multispectral Remote Sensing Image Classification Using Modern Machine Intelligence Approach	2021	2021 7th International Conference on Signal Processing and Communication, ICSC 2021			216	221	10.1109/ICSC53193.2021.9673205	Conference Paper	SCOPUS
181	Singh, M., Tyagi, K.D.	Pixel based classification for Landsat 8 OLI multispectral satellite images using deep learning neural network	2021	Remote Sensing Applications: Society and Environment	24				10.1016/j.rsase.2021.100645	Article	SCOPUS
182	Singh, S., Yadav, P., Malik, A., Agrawal, R.	OCHEP: An Optimized Cluster Head Election Protocol for Heterogeneous WSNs	2021	Lecture Notes in Electrical Engineering	721 LNEE		167	182	10.1007/978-981-15-9938-5_17	Conference Paper	SCOPUS
183	Yadav, P., Kumar, P., Kishan, P., Raj, P., Raj, U.	Development of Pervasive IoT Based Healthcare Monitoring System for Alzheimer Patients	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012035	Conference Paper	SCOPUS
184	Viral, R., Asija, D., Bahar, T., Bansal, M., Singh, H.P.	SPV System Monitoring with Wireless Data Acquisition System Employing LAB VIEW	2021	2021 4th International Conference on Recent Developments in Control, Automation and Power Engineering, RDCAPE 2021			458	462	10.1109/RDCAPE52977.2021.9633459	Conference Paper	SCOPUS
185	Viral, R., Asija, D., Bahar, T., Ningthoujam, A.D., Bansal, M., Singh, H.P.	Small Hydro Power Projects and CDM Benefits: A Case Study of 2x50 kW, Gaundar MHP, Uttarakhand, India	2021	2021 4th International Conference on Recent Developments in Control, Automation and Power Engineering, RDCAPE 2021			454	457	10.1109/RDCAPE52977.2021.9633711	Conference Paper	SCOPUS
186	Dipraj, Singh, A., Singh, R.K., Sharma, S.	Analogous Research of Classical PI Controller and Fuzzy Logic Controller to Control the Speed of D.C. Servo Motor	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012044	Conference Paper	SCOPUS
187	Singh, A., Dipraj, Singh, D., Yadav, A.	FLC based speed control of Induction Motor	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012020	Conference Paper	SCOPUS
188	Kumar, N., Kumar, J., Chaurasia, R., Sharma, H.	Comparison of Various Load Frequency Control Schemes in Restructured Power System Environment	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012028	Conference Paper	SCOPUS
189	Maurya, B.	A review on impact of distributed generation penetration in deregulated electricity market having renewable	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012061	Conference Paper	SCOPUS

		energy sources in India									
190	Pandey, S., Mehrotra, R., Ansari, M.A., Tripathi, P.	Novel Approach to Denoise Electrocardiogram Signal Using LabVIEW Techniques	2021	Lecture Notes in Electrical Engineering	721 LNEE		247	260	10.1007/978-981-15-9938-5_24	Conference Paper	SCOPUS
191	Teelhawod, B.N., Akhtar, F., Heyat, M.B.B., Tripathi, P., Mehrotra, R., Asfaw, A.B., Shorman, O.A., Masadeh, M.	Machine Learning in E-health: A Comprehensive Survey of Anxiety	2021	2021 International Conference on Data Analytics for Business and Industry, ICDABI 2021			167	172	10.1109/ICDABI53623.2021.9655966	Conference Paper	SCOPUS
192	Chaudhary, A.K., Mehrotra, R., Ansari, M.A., Tripathi, P.	A Novel Scheme for Medical Image Compression Using Huffman and DCT Techniques	2021	Lecture Notes in Electrical Engineering	721 LNEE		289	300	10.1007/978-981-15-9938-5_28	Conference Paper	SCOPUS
193	Saxena, A., Patil, G.M., Kumar Agarwal, N., Singh, A., Prakash, A., Sharma, K.	Environmental and Social Aspects of Microgrid Deployment- A Review	2021	2021 IEEE 8th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2021					10.1109/UPCON52273.2021.9667612	Conference Paper	SCOPUS
194	Sharma, K., Mehrotra, R., Kaura, S., Krishna, R., Kumar, N.	Evaluation & Comparison between plus Sign Slotted and Ushaped Microstrip antennas for Wi-MAX application using IE3D	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012011	Conference Paper	SCOPUS
195	Krishnaveni, S., Singh, J., Verma, K., Pachaury, A., Kashyap, G., Bhatia, A.	A Machine Learning Approach for Wind Speed Forecasting	2021	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021			507	512	10.1109/ICACITE5122.2021.9404563	Conference Paper	SCOPUS
196	Singh, P.K., Ansari, M.A., Pal, N.S., Singh, J., Singh, N.	Modelling and Simulation of Advance Charging for Electric and Solar Assisted Vehicles	2021	Lecture Notes in Electrical Engineering	721 LNEE		523	532	10.1007/978-981-15-9938-5_50	Conference Paper	SCOPUS
197	Sivanand, R., Singh, J., Ali, A., Khan, A., Hoda, M.F.	A comparative study of different deep learning models for mid-Term solar power prediction	2021	2021 International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021			519	524	10.1109/ICACITE5122.2021.9404630	Conference Paper	SCOPUS

198	Verma, K., Chauhan, S., Singh, J., Kumar, N.	Bidirectional Visitor Counter using Microcontroller with Sanitization and Thermal Screening	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012040	Confere nce Paper	SCOPUS
199	Rajput, S.K., Wadhvani, S., Singh, J.	Reliability and Energy Efficiency of Ring Frame Machine in Textile Industries: Secure, Smart, and Reliable Network	2021	Lecture Notes in Electrical Engineering	721 LNEE		657	663	10.1007/97 8-981-15- 9938-5_61	Confere nce Paper	SCOPUS
200	Saxena, V., Kumar, N., Nangia, U., Singh, J.	Analysis of Smart Electricity Grid Framework Unified with Renewably Distributed Generation	2021	Lecture Notes in Electrical Engineering	721 LNEE		735	751	10.1007/97 8-981-15- 9938-5_68	Confere nce Paper	SCOPUS
201	Singh, R., Singh, A., Singh, J., Kumar, J.	Model order reduction using logarithmic assembly technique and second cauer form for power system models	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012013	Confere nce Paper	SCOPUS
202	Thakur, R., Singh, J.	IoT-Based Automation Irrigation System	2021	Lecture Notes in Electrical Engineering	721 LNEE		501	509	10.1007/97 8-981-15- 9938-5_48	Confere nce Paper	SCOPUS
203	Singh, A., Choudhary, P., Singh, A.K., Tyagi, D.K.	Keylogger Detection and Prevention	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012005	Confere nce Paper	SCOPUS
204	Choudhary, P., Choudhary, A.K., Singh, A., Harikeshpand ey, Singh, M.K.	Design of Centralized Mini- Link for Optimal use in Telecom Network	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012001	Confere nce Paper	SCOPUS
205	Choudhary, P., Choudhary, A.K., Singh, A.K., Tripathi, A.	Real Time Physical Ffitness Monitoring App: BeTough	2021	Lecture Notes in Electrical Engineering	721 LNEE		281	288	10.1007/97 8-981-15- 9938-5_27	Confere nce Paper	SCOPUS
206	Choudhary, P., Choudhary, A.K., Srivastava, A.P., Singh, A.	Find Mine: Find the Lost Items via Mobile App	2021	Proceedings of 2021 2nd International Conference on Intelligent Engineering and Management, ICIEM 2021			491	495	10.1109/IC IEM51511. 2021.94453 79	Confere nce Paper	SCOPUS
207	Choudhary, P., Pandey, S., Tripathi, S., Chaurasiya, S.	Fake News Detection Based on Machine Learning	2021	Lecture Notes in Electrical Engineering	721 LNEE		67	75	10.1007/97 8-981-15- 9938-5_8	Confere nce Paper	SCOPUS
208	Choudhary, P., Tripathi, A., Singh, A.K., Vashist, P.C.	Upper half face recognition using hidden markov model and singular value decomposition coefficients	2021	Advances in Intelligent Systems and Computing	1086		549	561	10.1007/97 8-981-15- 1275-9_45	Confere nce Paper	SCOPUS
209	Choudhary, P., Yadav, S.A., Srivastava,	A System for Remote Monitoring of Patient Body Parameters	2021	Proceedings of International Conference on Technological Advancements			238	243	10.1109/IC TAI53825. 2021.96733 25	Confere nce Paper	SCOPUS

	A.P., Singh, A., Sharma, S.			and Innovations, ICTAI 2021								
210	De, P.	Smoothing Junctions of Engineering Drawings Using C2 Continuity	2021	Communication s in Computer and Information Science	1368		263	272	10.1007/97 8-981-16- 0404-1_19	Confere nce Paper	SCOPUS	
211	Jain, A., De, P.	Enhancing Database Security for Facial Recognition using Fernet Encryption Approach	2021	Proceedings of the 5th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2021			748	753	10.1109/IC ECA52323. 2021.96760 65	Confere nce Paper	SCOPUS	
212	Jain, A., Sachdeva, M., De, P.	Facial Monitoring Using Gradient Based Approach	2021	Communication s in Computer and Information Science	1440 CCIS		204	213	10.1007/97 8-3-030- 81462-5_19	Confere nce Paper	SCOPUS	
213	Kanyal, H.S., Goel, M., Tripathi, R.C., Kumar, A., Saraswat, B.K., Singh, S.	Resume Designing using Speech Recognition System	2021	Proceedings of the 2021 10th International Conference on System Modeling and Advancement in Research Trends, SMART 2021			245	248	10.1109/S MART525 63.2021.96 76321	Confere nce Paper	SCOPUS	
214	Saraswat, B.K., Parashar, B., Takuli, A.K., Singh, S.	Case Study for Regression Testing using Genetic Algorithm	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012060	Confere nce Paper	SCOPUS	
215	Singh, A.K., Tripathi, A., Singh, K.K., Choudhary, P., Vashist, P.C.	Artificial itelligence in medicine	2021	Machine Learning and the Internet of Medical Things in Healthcare			67	87	10.1016/B9 78-0-12- 821229- 5.00008-2	Book Chapter	SCOPUS	
216	Singh, A., Srivastav, A.P., Choudhary, P., Raj, S.	Facial emotion recognition using convolutional neural network	2021	Proceedings of 2021 2nd International Conference on Intelligent Engineering and Management, ICIEM 2021			486	490	10.1109/IC IEM51511. 2021.94453 46	Confere nce Paper	SCOPUS	
217	Singh, A., Srivastava, A.P., Choudhary, P., Pandey, H., Singh, A.K.	Blockchain in Healthcare	2021	Proceedings of International Conference on Technological Advancements and Innovations, ICTAI 2021			168	172	10.1109/IC TAI53825. 2021.96731 87	Confere nce Paper	SCOPUS	
218	Pandey, H., Srivastava, A.P., Choudhary, P., Singh, A., Mishra, G., Pandey, R.	Design and Development of Efficient Information Hiding using SFVMI 16 *16 Algorithm	2021	Proceedings of International Conference on Technological Advancements and Innovations, ICTAI 2021			81	86	10.1109/IC TAI53825. 2021.96732 39	Confere nce Paper	SCOPUS	
219	Bhardwaj, G., Gupta, R., Pratap Srivastava, A.,	Cyber Threat Landscape of G4 Nations: Analysis of Threat Incidents Response Strategies	2021	Proceedings of 2021 2nd International Conference on Intelligent			75	79	10.1109/IC IEM51511. 2021.94453 07	Confere nce Paper	SCOPUS	

	Vikram Singh, S.			Engineering and Management, ICIEM 2021								
220	Tiwari, R.G., Misra, A., Khullar, V., Agarwal, A.K., Gupta, S., Srivastava, A.P.	Identifying Microscopic Augmented Images using Pre-Trained Deep Convolutional Neural Networks	2021	Proceedings of International Conference on Technological Advancements and Innovations, ICTAI 2021			32	37	10.1109/IC TAI53825. 2021.96734 72	Confere nce Paper	SCOPUS	
221	Tiwari, R.G., Pratap Srivastava, A., Bhardwaj, G., Kumar, V.	Exploiting UML Diagrams for Test Case Generation: A Review	2021	Proceedings of 2021 2nd International Conference on Intelligent Engineering and Management, ICIEM 2021			457	460	10.1109/IC IEM51511. 2021.94453 83	Confere nce Paper	SCOPUS	
222	Singh, G., Tripathi, A., Pandey, A.B., Tyagi, V.	IoT Based System for Smart Policing in India	2021	2021 12th International Conference on Computing Communication and Networking Technologies, ICCCNT 2021					10.1109/IC CCNT5152 5.2021.957 9841	Confere nce Paper	SCOPUS	
223	Tripathi, A., Pandey, A.B., Singh, A.K., Malik, P., Singh, K.K., Vashist, P.C.	IoT for Smart Automation and Robot	2021	Advances in Science, Technology and Innovation			189	201	10.1007/97 8-3-030- 66222-6_13	Book Chapter	SCOPUS	
224	Tripathi, A., Singh, A.K., Singh, K.K., Choudhary, P., Vashist, P.C.	Machine learning architecture and framework	2021	Machine Learning and the Internet of Medical Things in Healthcare			1	22	10.1016/B9 78-0-12- 821229- 5.00005-7	Book Chapter	SCOPUS	
225	Tyagi, M.K., Tyagi, D.K., Tyagi, L.K., Tyagi, N., Kumar, D., Sikandar, A.	Agile Planning and Tracking of Software Projects Using the State-Space Approach	2021	Communication s in Computer and Information Science	1368		355	371	10.1007/97 8-981-16- 0404-1_26	Confere nce Paper	SCOPUS	
226	Singh, G., Tripathi, A., Pandey, A.B., Tyagi, V.	IoT based System for Smart Policing in India	2021	Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition			1591	1600	10.1109/C VPR46437. 2021.00164	Confere nce Paper	SCOPUS	
227	Bharti, C., Singh, A., Rahul, R., Sharma, D., Dwivedi, S.P.	A critical review of aluminium based composite developed by various casting technique with different reinforcement particles to enhance tribo-mechanical behaviour	2021	Materials Today: Proceedings	47		4092	4097	10.1016/j.m atrp.2021.0 6.366	Confere nce Paper	SCOPUS	
228	Gaur, M.S., Kumar, S., Gaur, N.K., Sharma, P.S.	Persuasive Factors and Weakness for Security Vulnerabilities in BIG IOT Data in Healthcare Solution	2021	Journal of Physics: Conference Series	2007	1			10.1088/17 42- 6596/2007/ 1/012046	Confere nce Paper	SCOPUS	

229	Tyagi, A., Gaur, M.S.	COVID-19 Pandemic and Post- pandemic: Impact and Technical Threats in India	2021	Lecture Notes in Electrical Engineering	721 LNEE		485	499	10.1007/97 8-981-15- 9938-5_46	Confere nce Paper	SCOPUS
230	Ojha, R.K., Srivastava, S., Goyal, M., Kumar, L., Kumar, A., Prasad, C.	Improving K-Means Effectiveness and Efficiency with Initialization Estimates of Cluster Centroids	2021	Proceedings - 2nd International Conference on Smart Electronics and Communication , ICOSEC 2021			1086	1091	10.1109/IC OSEC5186 5.2021.959 1948	Confere nce Paper	SCOPUS
231	Kumar, L., Mishra, D., Kumar, A., Kumar, A., Bajpai, A.	Comparative study of efficient data hiding techniques	2021	IOP Conference Series: Materials Science and Engineering	1022	1			10.1088/17 57- 899X/1022/ 1/012047	Confere nce Paper	SCOPUS
232	Kumar, S., Gaur, M.S., Sagar Sharma, P., Munjal, D.	A Novel Approach of Symmetric Key Cryptography	2021	Proceedings of 2021 2nd International Conference on Intelligent Engineering and Management, ICIEM 2021			593	598	10.1109/IC IEM51511. 2021.94453 43	Confere nce Paper	SCOPUS
233	Kumar, S., Kamani, G., Gaur, M.S., Mishra, A.	Cloud Security using Hybrid Cryptography Algorithms	2021	Proceedings of 2021 2nd International Conference on Intelligent Engineering and Management, ICIEM 2021			599	604	10.1109/IC IEM51511. 2021.94453 77	Confere nce Paper	SCOPUS
234	Sharma, P.S., Kumar, S., Gaur, M.S., Jain, V.	A novel intelligent round robin CPU scheduling algorithm	2021	International Journal of Information Technology (Singapore)					10.1007/s4 1870-021- 00630-0	Article	SCOPUS
235	Srivastava, S., Sharma, V.K., Sharma, R., Singh, B.K., Singh, J.N., Choudhury, T.	A Comprehensive Effectual Load- Balancing Method in Cloud Computing	2021	Lecture Notes in Electrical Engineering	788		357	369	10.1007/97 8-981-16- 4149-7_32	Confere nce Paper	SCOPUS
236	Srivastava, S., Singh, J.N.	Wireless Communication Security Breaches in Smart Healthcare Applications	2021	Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021			1240	1244	10.1109/IC AC3N5354 8.2021.972 5738	Confere nce Paper	SCOPUS
237	Srivastava, S., Singh, J.N.	Review on Energy Efficiency Protocol in Wireless Sensor Network	2021	Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021			1218	1223	10.1109/IC AC3N5354 8.2021.972 5415	Confere nce Paper	SCOPUS
238	Srivastava, S., Srivastava, P.K., Gupta, D., Yadav, D.K.	Upgradation of Assurance Based on Revealing Quality of Healthcare Domain Around the Globe Using Internet of Things	2021	Lecture Notes in Electrical Engineering	721 LNEE		97	107	10.1007/97 8-981-15- 9938-5_11	Confere nce Paper	SCOPUS

239	Kumar Gupta, T., Kumar Srivastava, A., Shankar Srivastava, V.	Microstructural and tensile behaviour of hybrid MMC Al7075/ SiC/B4C produced by mechanical stir casting	2021	Materials Today: Proceedings	47		4107	4113	10.1016/j.matpr.2021.06.430	Conference Paper	SCOPUS
240	Kumar Gupta, T., Mangal, D., Gupta, A.	Impact of material properties on the dynamics of cam shaft	2021	Materials Today: Proceedings	47		4083	4091	10.1016/j.matpr.2021.06.310	Conference Paper	SCOPUS
241	Kumar Maurya, N., Sharma, R., Kumar, N., Kumar, A., Anand, P., Rai, P., Singh, H.	An overview of investigation of Fatigue, tensile strength and hardness of the components fabricated through direct metal laser sintering (DMLS) process	2021	Materials Today: Proceedings	47		3979	3984	10.1016/j.matpr.2021.04.131	Conference Paper	SCOPUS
242	Kumar Maurya, R., Niranjan, M.S.	Experimental investigations of effect of tempering on residual stresses developed during the turning operation	2021	Materials Today: Proceedings	47		3852	3858	10.1016/j.matpr.2021.03.411	Conference Paper	SCOPUS
243	Das, P.P., Chaudhary, V., Kumar Singh, R., Singh, D., Aditya Bachchan, A.	Advancement in hybrid materials, its applications and future challenges: A review	2021	Materials Today: Proceedings	47		3794	3801	10.1016/j.matpr.2021.03.009	Conference Paper	SCOPUS
244	Dwivedi, R., Kumar Singh, R., Kumar, S., Kumar Srivastava, A.	Parametric optimization of process parameters during the friction stir processing of Al7075/SiC/waste eggshell surface composite	2021	Materials Today: Proceedings	47		3884	3890	10.1016/j.matpr.2021.03.545	Conference Paper	SCOPUS
245	Shankar Srivastava, V., Kumar Gupta, T., Nigam, A.	Study of stirrer speed and preheat temperature on stir cast aluminium matrix composite materials - A review	2021	Materials Today: Proceedings	47		4114	4120	10.1016/j.matpr.2021.06.442	Conference Paper	SCOPUS
246	Gupta, P., Kumar, V., Chaudhary, S., Kumar, S., Kumar Singh, J., Kumar Chauhan, P.	Investigation and characterization of microwave processed joint of MS1020	2021	Materials Today: Proceedings	47		3877	3883	10.1016/j.matpr.2021.03.523	Conference Paper	SCOPUS
247	Chauhan, S.S., Singh, J.K., Singh, H., Mavi, S., Singh, V., Khan, M.I.	An overview on recycling plastic wastes in bricks	2021	Materials Today: Proceedings	47		4067	4073	10.1016/j.matpr.2021.05.697	Conference Paper	SCOPUS
248	Chauhan, S.S., Singh, V., Saini, G., Kaushik, N., Pandey, V., Chaudhary, A.	Study and evaluation of the mechanical properties on sawdust reinforced epoxy composite	2021	World Journal of Engineering					10.1108/WJE-04-2021-0211	Review	SCOPUS

249	Ranjan, U., Dwivedi, S.P., Pandey, D., Kumar, R., Garg, T.K.	A critical review on the utilization of SAC and eggshell in the development of aluminium based composite material	2021	Materials Today: Proceedings	47		3839	3844	10.1016/j.matpr.2021.03.179	Conference Paper	SCOPUS
250	Singh, H., Singh, J., Sharma, S., Dwivedi, S.P., Obaid, A.J.	Comparative performance of copper, graphite, brass and aluminium/graphite based different tool electrodes for optimizing the material removal rate during die-sinking edm of stir-casted, al6061/sicmms for sustainable manufacturing and energy applications	2021	Journal of Green Engineering	11	1	922	938		Article	SCOPUS
251	Singh, S., Dwivedi, S.P., Kumar, A., Anand, V., Vikram Singh, V., Tauqueer Ansari, M.	A critical review on the utilization of waste PET and marble dust in the development of composite material	2021	Materials Today: Proceedings	47		4034	4040	10.1016/j.matpr.2021.04.535	Conference Paper	SCOPUS
252	Yadav, R., Dwivedi, S.P., Dwivedi, V.K.	Synthesis and mechanical behavior of ball-milled agro-waste rha and eggshell reinforced composite material	2021	Materials Performance and Characterization	10	1			10.1520/MPC20190247	Article	SCOPUS
253	Yadav, R., Dwivedi, S.P., Dwivedi, V.K., Islam, A.	Microstructure and mechanical testing of Al/graphite/Fly-ash metal matrix composite material	2021	World Journal of Engineering					10.1108/WJE-07-2021-0408	Article	SCOPUS
254	Yadav, R., Dwivedi, V.K., Islam, A., Dwivedi, S.P.	Analysis of mechanical properties of Al-based metal matrix composite reinforced with ES and RHA	2021	World Journal of Engineering	18	6	930	937	10.1108/WJE-02-2021-0079	Article	SCOPUS
255	Chauhan, S.S., Maurya, N.K., Dwivedi, S.P.	Effect of particle size and weight percent of different wood dust on the tensile strength of glass fiber Epoxy/Saw dust composite using RSM	2021	Materials Today: Proceedings	47		3936	3942	10.1016/j.matpr.2021.03.635	Conference Paper	SCOPUS
256	Dwivedi, S.P.	Extraction of Cr from CCLW and its utilisation in the development of composite by friction stir process	2021	Australian Journal of Mechanical Engineering					10.1080/14484846.2021.1953265	Article	SCOPUS
257	Dwivedi, S.P., Maurya, M., Chauhan, S.S.	Mechanical, physical and thermal behaviour of SiC and MgO reinforced aluminium based composite material	2021	Evergreen	8	2	318	327	10.5109/4480709	Article	SCOPUS

258	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	2021	Journal of The Institution of Engineers (India): Series D						10.1007/s40033-021-00312-y	Article	SCOPUS
259	Islam, A., Dwivedi, S.P., Dwivedi, V.K.	Effect of friction stir process parameters on tensile strength of eggshell and SiC-reinforced aluminium-based composite	2021	World Journal of Engineering	18	1	157	166		10.1108/WJE-08-2020-0387	Article	SCOPUS
260	Islam, A., Dwivedi, S.P., Dwivedi, V.K.	Extraction of Cr from chrome containing leather waste to develop composite at optimum casting parameters using response surface methodology	2021	World Journal of Engineering						10.1108/WJE-10-2020-0517	Article	SCOPUS
261	Islam, A., Dwivedi, S.P., Dwivedi, V.K., Sharma, S., Kozak4, D.	Development of marble dust/waste pet based polymer composite material for environmental sustainability: Fabrication and characterizations	2021	Materials Performance and Characterization	10	1	538	552		10.1520/MPC20210034	Article	SCOPUS
262	Islam, A., Dwivedi, S.P., Yadav, R., Dwivedi, V.K.	Development of Aluminium Based Composite by Utilizing Industrial Waste and Agro-Waste Material as Reinforcement Particles	2021	Journal of The Institution of Engineers (India): Series D	102	2	317	330		10.1007/s40033-021-00292-z	Article	SCOPUS
263	Islam, A., Dwivedi, V.K., Dwivedi, S.P.	Effect of friction stir process parameters on mechanical properties of Al/Eggshell/SiC composite material	2021	Annales de Chimie: Science des Materiaux	45	1	51	57		10.18280/acsm.450107	Article	SCOPUS
264	Kumar, P., Kumar, A., Kumar, A., Lavkush, Kumar, Y., Dwivedi, S.P.	Different reinforcement particles and their effects in the development of composite material by different development techniques: A review	2021	Materials Today: Proceedings	47		4015	4019		10.1016/j.matpr.2021.04.267	Conference Paper	SCOPUS
265	Mishra, A., Agarwal, R., Kumar, N., Rana, A., Kumar Pandey, A., Dwivedi, S.P.	A critical review on the additive manufacturing of aluminium alloys	2021	Materials Today: Proceedings	47		4074	4078		10.1016/j.matpr.2021.05.698	Conference Paper	SCOPUS
266	Singh, P., Gupta, R., Izan, S., Singh, S., Sharma, R., Dwivedi, S.P.	Tribo-mechanical behaviour of aluminium-based metal matrix composite: A review	2021	Materials Today: Proceedings	47		3828	3832		10.1016/j.matpr.2021.03.092	Conference Paper	SCOPUS

267	Soni, D., Singh, G., Srivastava, A., Shukla, G., Mehta, H., Raj, S., Dwivedi, S.P.	A critical review of AA 7075 alloy for the development of composite material with various reinforcement	2021	Materials Today: Proceedings	47		3891	3894	10.1016/j.matpr.2021.03.546	Conference Paper	SCOPUS
268	Verma, S.K., Dwivedi, V.K., Dwivedi, S.P.	Utilization of waste spent alumina catalyst for the development of valuable product - A review	2021	Materials Today: Proceedings	47		4079	4082	10.1016/j.matpr.2021.06.146	Conference Paper	SCOPUS
269	Gupta, A., Yadav, V.S., Chauhan, S.	Investigation of dynamic behavior of Hollow Rotor Shaft System through FEM	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012066	Conference Paper	SCOPUS
270	Gupta, A., Yadav, A., Singh, G., Yadav, A., Kumar, S., Kumar, A.	Study of doping effect on properties of AlSiC composite: A review	2021	Materials Today: Proceedings	47		4059	4061	10.1016/j.matpr.2021.05.332	Conference Paper	SCOPUS
271	Kumar, M.	Fractographic investigation of Low Cycle Fatigue behaviour of IN718 coated with NaCl at 550°C	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012070	Conference Paper	SCOPUS
272	Maurya, N.K., Maurya, M., Dwivedi, S.P., Srivastava, A.K., Saxena, A., Chahuan, S., Tiwari, A., Mishra, A.	Investigation of effect of process variable on dimensional accuracy of FDM component using response surface methodology	2021	World Journal of Engineering	18	5	710	719	10.1108/WJE-08-2020-0347	Article	SCOPUS
273	Maurya, N.K., Maurya, M., Saxena, A., Tyagi, A., Kiran, G., Singh, H., Tripathi, H., Kumar, P., Yadav, S.	Investigation of mechanical properties and form error of the components fabricated by rapid prototyping: A review	2021	Materials Today: Proceedings	47		3901	3906	10.1016/j.matpr.2021.03.553	Conference Paper	SCOPUS
274	Maurya, N.K., Rastogi, V., Singh, P.	Feasibility analysis of manufacturing using rapid prototyping: A review	2021	Materials Today: Proceedings	47		3711	3715	10.1016/j.matpr.2021.01.799	Conference Paper	SCOPUS
275	Saxena, A.N., Panwar, A., Mishra, S., Shukla, A.K., Sahu, M.K.	Parametric Investigation of Basic and Evaporative Inlet Air-Cooled Gas Turbine Cycle	2021	Lecture Notes in Mechanical Engineering			751	768	10.1007/978-981-33-4684-0_76	Conference Paper	SCOPUS
276	Ranjan, P., Kumar, R., Walia, R.S.	Functionally Graded Material Coatings (FGMC) - A Review	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012068	Conference Paper	SCOPUS
277	Gupta, P., Chaudhary, S., Kumar, V., Kumar, S., Sahu, R.	Investigation and characterization of brass joint fabricated by microwave hybrid heating process	2021	Materials Today: Proceedings	47		3973	3978	10.1016/j.matpr.2021.04.054	Conference Paper	SCOPUS
278	Singh, N.K., Singh, Y., Sharma, A., Singla, A., Negi, P.	An environmental-friendly electrical discharge machining using different sustainable	2021	Advances in Materials and Processing Technologies	7	4	537	566	10.1080/2374068X.2020.1785210	Review	SCOPUS

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279	Singh, Y., Sharma, A., Ansari, N.A., Singh, N.K.	Effect of SiC Nanoparticles Concentration on the Tribological Behavior of Karanja Oil	2021	Lecture Notes in Mechanical Engineering			157	165	10.1007/978-981-15-9678-0_13	Conference Paper	SCOPUS	
280	Singh, Y., Singh, N.K., Sharma, A.	Effect of SiO ₂ Nanoparticles on the Tribological Behavior of Balanites Aegytiaca (Desert date) Oil-Based Biolubricant	2021	Journal of Bio-and Tribo-Corrosion	7	1			10.1007/s40735-020-00451-x	Article	SCOPUS	
281	Singh, Y., Singh, N.K., Sharma, A., Chinnasamy, V., Bhan, U.	Tribological Characteristics of TiO ₂ Nanoparticles as an Additive to the Chemically Modified Nicotiana Tabacum	2021	Journal of Bio-and Tribo-Corrosion	7	2			10.1007/s40735-021-00499-3	Article	SCOPUS	
282	Pandey, N.K., Bajpai, V.K., Sharma, A.	Exergy analysis of roughened duct using multiple arcs with gaps used in solar air heaters	2021	International Journal of Ambient Energy					10.1080/01430750.2021.1873180	Article	SCOPUS	
283	Tripathi, R., Negi, P., Singh, Y., Ranjit, P.S., Sharma, A.	Role of nanoparticles as an additive to the biodiesel for the performance and emission analysis of diesel engine - A review	2021	Materials Today: Proceedings	46		11222	11225	10.1016/j.matpr.2021.02.513	Conference Paper	SCOPUS	
284	Jaiswal, S.P., Lata, S., Singh, S., Singh, S.K., Singh, J.	Operating Strategies Optimization of STATCOM for Improvement of Voltage Profile	2021	Proceedings - IEEE 2021 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2021			840	844	10.1109/ICCCIS51004.2021.9397120	Conference Paper	SCOPUS	
285	Jain, R., Meena, M.L., Singh, K.P.	Travelling Salesman Problem Optimization Using Hybrid Genetic Algorithm	2021	Lecture Notes in Networks and Systems	175		350	356	10.1007/978-3-030-67187-7_36	Conference Paper	SCOPUS	
286	Singh, R.K., Rastogi, V.	A review on solid state fabrication methods and property characterization of functionally graded materials	2021	Materials Today: Proceedings	47		3930	3935	10.1016/j.matpr.2021.03.634	Conference Paper	SCOPUS	
287	Jafar, M.R., Srivastava, A.K.	A review on elicited potentials in the brain to recognize Brain- Machine interface	2021	Journal of Physics: Conference Series	2007	1			10.1088/1742-6596/2007/1/012048	Conference Paper	SCOPUS	
288	Pal, A., Dixit, A., Srivastava, A.K.	Design and optimization of the shape of electrostatic precipitator system	2021	Materials Today: Proceedings	47		3871	3876	10.1016/j.matpr.2021.03.448	Conference Paper	SCOPUS	

289	Srivastava, A.K., Dixit, V., Rai, A.K., Sharma, S., Sharma, A., Srivastava, V.S.	Study of microstructural and mechanical properties of the component produced by friction stir additive manufacturing (FSAM)-A review	2021	Materials Today: Proceedings	47		4142	4147	10.1016/j.matpr.2021.08.339	Conference Paper	SCOPUS
290	Srivastava, A.K., Maurya, M., Saxena, A., Maurya, N.K., Dwivedi, S.P.	Statistical optimization by response surface methodology of process parameters during the cnc turning operation of hybrid metal matrix composite	2021	Evergreen	8	1	51	62	10.5109/4372260	Article	SCOPUS
291	Srivastava, A.K., Saxena, A., Maurya, N.K., Dwivedi, S.P.	Microstructural and mechanical properties of az31b/graphene nanocomposite produced by stir casting	2021	Revue des Composites et des Materiaux Avances	31	1	51	56	10.18280/rcma.310107	Article	SCOPUS
292	Srivastava, A.K., Saxena, A., Sharma, B.	Numerical study of tensile strength and hardness of the AA1100/graphene MMC produced by stir casting	2021	Materials Today: Proceedings	47		3993	3997	10.1016/j.matpr.2021.04.162	Conference Paper	SCOPUS
293	Srivastava, V.S., Gupta, T.K., Srivastava, A.K., Chauhan, S., Chauhan, P.K.	Effects of cutting parameters on aluminium alloys-A review	2021	Materials Today: Proceedings	47		3823	3827	10.1016/j.matpr.2021.03.091	Conference Paper	SCOPUS
294	Tiwari, S., Gangwar, P.	Evaluate the effect of acid attack on rubberised concrete using crumb tyre rubber and replacement of cement by alccofine	2021	Materials Today: Proceedings	47		3778	3782	10.1016/j.matpr.2021.03.006	Conference Paper	SCOPUS
295	Tiwari, S., Gautam, M.K., Sharma, A.	Effect of Curing Methods on the Properties of Green Concrete	2021	Lecture Notes in Mechanical Engineering			239	246	10.1007/978-981-16-0942-8_22	Conference Paper	SCOPUS
296	Tiwari, S., Soni, A.	Structure health monitoring of housing project: A case study	2021	Materials Today: Proceedings	47		3783	3786	10.1016/j.matpr.2021.03.007	Conference Paper	SCOPUS
297	Singh, A., Yadav, V.K., Shrivastava, D., Singh, M.K., Maurya, S., Vibhanshu, V., Sharma, A.K.	Estimation of performance parameter of top-lit up-draft cookstove using locally available wood feedstock	2021	International Journal of Energy for a Clean Environment	22	6	129	146	10.1615/INTERJENERGRCLEANENV.2021036706	Article	SCOPUS
298	Kumar, S., Mittal, M., Yadav, V.K.	Cost-effective product prioritisation technique for software product line testing	2021	International Journal of Engineering Systems Modelling and Simulation	12	3	83	93	10.1504/IJESMS.2021.115518	Article	SCOPUS
299	Tamanna, Uddin, M., Kumar, V., Kumar Yadav, V.	Comparative study of the VINCI Robot's arm end effector matrix using Python and MATLAB	2021	Materials Today: Proceedings	47		3761	3764	10.1016/j.matpr.2021.02.429	Conference Paper	SCOPUS

