

List of 2020 Publications in SCI/SCOPUS

S. No.	Authors	Title	Year	Name of Journal/Proceeding	Volume	Issue	Page start	Page end	DOI	Document Type	Indexing
1.	Shukla, P., Saxena, P., Bhardwaj, N., Jain, V.K.	Microporous polymer membrane assisted water induced electricity generation based on triboelectrification and electrostatic induction	2020	RSC Advances	10	67	40608	40618	10.1039/d0ra07982k	Article	SCI
2.	Sharma, S., Kumar, A., Singh, K.S.	Design of a tunable DWDM multiplexer using four defect layers of GaAs nonlinear photonic crystals	2020	Optik	212				10.1016/j.ijleo.2020.164652	Article	SCI
3.	Dhaka, S.S., Rai, M., Rai, M., Yadav, A.	Field evaluation of novel insecticides against brown planthopper (<i>nilaparvata lugens</i>) and white backed planthopper (<i>sogatella furcifera</i>) in rice	2020	Indian Journal of Agricultural Sciences	90	8	1528	1531		Article	SCI
4.	Bir, P., Karatangi, S.V., Rai, A.	Design and implementation of an elastic processor with hyperthreading technology and virtualization for elastic server models	2020	Journal of Supercomputing	76	9	7394	7415	10.1007/s11227-020-03174-5	Article	SCI
5.	Joshi, S., Kumar, R., Dwivedi, A.	Hybrid dsscs and convolutional neural network for peripheral blood cell recognition system	2020	IET Image Processing	14	17	4450	4460	10.1049/iet-ipr.2020.0370	Article	SCI
6.	Shukla, A.K.	Identification of cancerous gene groups from microarray data by employing adaptive genetic and support vector machine technique	2020	Computational Intelligence	36	1	102	131	10.1111/coi.n.12245	Article	SCI
7.	Shukla, A.K., Tripathi, D.	Detecting biomarkers from microarray data using distributed correlation based gene selection	2020	Genes and Genomics	42	4	449	465	10.1007/s13258-020-00916-w	Article	SCI

8.	Kumar, K., Kumar, S., Kaiwartya, O., Sikandar, A., Kharel, R., Mauri, J.L.	Internet of unmanned aerial vehicles: Qos provisioning in aerial ad-hoc networks	2020	Sensors (Switzerland)	20	11			10.3390/s2 0113160	Article	SCI
9.	Sikandar, A., Agrawal, R., Tyagi, M.K., Rao, A.L.N., Prasad, M., Binsawad, M.	Toward green computing in wireless sensor networks: prediction-oriented distributed clustering for non- uniform node distribution	2020	Eurasip Journal on Wireless Communication s and Networking	2020	1			10.1186/s1 3638-020- 01788-0	Article	SCI
10.	Yadav, S.P., Yadav, S.	Fusion of medical images in wavelet domain: A hybrid implementation	2020	CMES - Computer Modeling in Engineering and Sciences	122	1	303	321	10.32604/c mes.2020.0 8459	Article	SCI
11.	Singh, D.K., Kanaujia, B.K., Dwari, S., Pandey, G.P.	Modeling of a dual circularly polarized capacitive-coupled slit-loaded truncated microstrip antenna	2020	Journal of Computational Electronics	19	4	1564	1572	10.1007/s1 0825-020- 01527-0	Article	SCI
12.	Kumar, A., Dwari, S., Pandey, G.P., Kanaujia, B.K., Singh, D.K.	A high gain wideband circularly polarized microstrip antenna	2020	International Journal of Microwave and Wireless Technologies	12	7	678	687	10.1017/S1 759078719 001612	Article	SCI
13.	Kumar, S., Kumar, A., Sharma, N.K.	A novel method to investigate voltage stability of IEEE-14 bus wind integrated system using PSAT	2020	Frontiers in Energy	14	2	410	418	10.1007/s1 1708-016- 0440-8	Article	SCI
14.	Dhasarathan, V., Sharma, M., Kapil, M., Vashist, P.C., Patel, S.K., Nguyen, T.K.	Integrated bluetooth/LTE2600 superwideband monopole antenna with triple notched (WiMAX/WLAN/D SS) band characteristics for UWB/X/Ku band wireless network applications	2020	Wireless Networks	26	4	2845	2855	10.1007/s1 1276-019- 02230-0	Article	SCI
15.	Kumar, S., Dwivedi, S.P., Dwivedi, V.K.	Synthesis and characterization of ball-milled eggshell and Al2O3 reinforced hybrid green composite material	2020	Journal of Metals, Materials and Minerals	30	2	67	75	10.14456/j mmm.2020. 22	Article	SCI

16.	Chohan, J.S., Kumar, R., Singh, T.C.B., Singh, S., Sharma, S., Singh, J., Mia, M., Pimenov, D.Y., Chattopadhyaya, S., Dwivedi, S.P., Kapłonek, W.	Taguchi s/n and topsis based optimization of fused deposition modelling and vapor finishing process for manufacturing of ABS plastic parts	2020	Materials	13	22	1	15	10.3390/ma 13225176	Article	SCI
17.	Chohan, J.S., Mittal, N., Kumar, R., Singh, S., Sharma, S., Singh, J., Rao, K.V., Mia, M., Pimenov, D.Y., Dwivedi, S.P.	Mechanical strength enhancement of 3d printed acrylonitrile butadiene styrene polymer components using neural network optimization algorithm	2020	Polymers	12	10	1	18	10.3390/pol ym1210225 0	Article	SCI
18.	Dwivedi, S.P.	Effect of ball-milled MgO and Si3N4 addition on the physical, mechanical and thermal behaviour of aluminium based composite developed by hybrid casting technique	2020	International Journal of Cast Metals Research	33	1	35	49	10.1080/13 640461.202 0.1744370	Article	SCI
19.	Dwivedi, S.P., Saxena, A.	Extraction of collagen powder from chrome containing leather waste and its composites with alumina employing different casting techniques	2020	Materials Chemistry and Physics	253				10.1016/j.m atchemphys .2020.1232 74	Article	SCI
20.	Dwivedi, S.P., Sharma, P., Saxena, A.	Utilization of waste spent alumina catalyst and agro- waste rice husk ash as reinforcement materials with scrap aluminium alloy wheel matrix	2020	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	234	6	543	552	10.1177/09 544089209 30634	Article	SCI
21.	Dwivedi, S.P., Sharma, S., Sharma, S.	Identification of Microwave Radiation Effect on Copper Welded Joint with Brass as Filler Material Using Response Surface Methodology	2020	Materials Performance and Characterizatio n	9	1	267	276	10.1520/M PC2019025 3	Article	SCI

22.	Dwivedi, S.P., Sharma, S., Singh, T., Kumar, N.	Mechanical and metallurgical characterization of copper-based welded joint using brass as filler metal developed by microwave technique	2020	International Journal of Precision Engineering and Manufacturing - Green Technology	44	4	281	286	10.18280/a csm.44040 7	Article	SCI
23.	Dwivedi, S.P., Srivastava, A.K.	Utilization of Chrome Containing Leather Waste in Development of Aluminium Based Green Composite Material	2020	International Journal of Precision Engineering and Manufacturing - Green Technology	7	3	781	790	10.1007/s4 0684-019- 00179-1	Article	SCI
24.	Maurya, N.K., Rastogi, V., Singh, P.	An overview of mechanical properties and form error for rapid prototyping	2020	CIRP Journal of Manufacturing Science and Technology	29		53	70	10.1016/j.ci rpj.2020.02 .003	Review	SCI
25.	Maurya, N.K., Rastogi, V., Singh, P.	Fabrication of prototype connecting rod of PLA plastic material using FDM prototype technology	2020	Indian Journal of Engineering and Materials Sciences	27	2	333	343		Article	SCI
26.	Mishra, S., Sharma, A., Kumari, A., Sanjay	Response surface methodology based optimization of air-film blade cooled gas turbine cycle for thermal performance prediction	2020	Applied Thermal Engineering	164				10.1016/j.a pplthermale ng.2019.11 4425	Article	SCI
27.	Saxena, A., Kumaraswam y, A., Dwivedi, S.P., Srivastava, A.K., Maurya, N.K.	Experimental and computational investigation on dynamic fracture toughness (J1d) behavior of multi-pass SMA armor steel weldments	2020	Theoretical and Applied Fracture Mechanics	106				10.1016/j.ta fmec.2020. 102502	Article	SCI
28.	Saxena, A., Kumaraswam y, A., Dwivedi, S.P., Srivastava, A.K., Maurya, N.K., Pandey, M.	Experimental and Numerical Investigation of Quasi-Static (10 ⁻³ s ⁻¹) Fracture Behavior of Armor Steel	2020	Arabian Journal for Science and Engineering	45	7	5623	5629	10.1007/s1 3369-020- 04519-1	Article	SCI
29.	Gupta, N.K., Sharma, A., Rathore, P.K.S., Verma, S.K.	Thermal performance optimization of heat pipe using nanofluid: response surface methodology	2020	Journal of the Brazilian Society of Mechanical Sciences and Engineering	42	11			10.1007/s4 0430-020- 02668-w	Article	SCI

30.	Kumar Singh, N., Singh, Y., Sharma, A., Kumar, S.	Diesel engine performance and emission analysis running on jojoba biodiesel using intelligent hybrid prediction techniques	2020	Fuel	279				10.1016/j.fuel.2020.11.8571	Article	SCI
31.	Pali, H.S., Sharma, A., Kumar, N., Singh, Y.	Sustainable route for S. Oleosa biodiesel production using response surface methodology	2020	Energy Sources, Part A: Recovery, Utilization and Environmental Effects					10.1080/15567036.2020.1837298	Article	SCI
32.	Sharma, A., Maurya, N.K., Singh, Y., Singh, N.K., Gupta, S.K.	Effect of design parameters on performance and emissions of DI diesel engine running on biodiesel-diesel blends: Taguchi and utility theory	2020	Fuel	281				10.1016/j.fuel.2020.11.8765	Article	SCI
33.	Sharma, A., Singh, Y., Ahmad Ansari, N., Pal, A., Lalhriatpuia, S.	Experimental investigation of the behaviour of a DI diesel engine fuelled with biodiesel/diesel blends having effect of raw biogas at different operating responses	2020	Fuel	279				10.1016/j.fuel.2020.11.8460	Article	SCI
34.	Sharma, A., Singh, Y., Kumar Singh, N., Singla, A., Chyuan Ong, H., Chen, W.-H.	Effective utilization of tobacco (Nicotiana Tabacum) for biodiesel production and its application on diesel engine using response surface methodology approach	2020	Fuel	273				10.1016/j.fuel.2020.11.7793	Article	SCI
35.	Sharma, A., Singh, Y., Tyagi, A., Singh, N.	Sustainability of the polanga biodiesel blends during the application to the diesel engine performance and emission parameters— Taguchi and RSM approach	2020	Journal of the Brazilian Society of Mechanical Sciences and Engineering	42	1			10.1007/s40430-019-2102-3	Article	SCI
36.	Singh Pali, H., Sharma, A., Singh, Y., Kumar, N.	Sal biodiesel production using Indian abundant forest feedstock	2020	Fuel	273				10.1016/j.fuel.2020.11.7781	Article	SCI

37.	Singh, N.K., Singh, Y., Sharma, A.	Experimental investigation and statistical modeling of air-assisted EDM of Al-SiC composite with an improvised tool	2020	Journal of the Brazilian Society of Mechanical Sciences and Engineering	42	6			10.1007/s40430-020-02404-4	Article	SCI
38.	Singh, N.K., Singh, Y., Sharma, A.	Experimental investigation on electric discharge drilling of titanium alloy (Ti-6Al-4V) with a gas-aided rotary tool	2020	Sadhana - Academy Proceedings in Engineering Sciences	45	1			10.1007/s12046-020-01497-w	Article	SCI
39.	Singh, N.K., Singh, Y., Sharma, A., Rahim, E.A.	Prediction of performance and emission parameters of Kusum biodiesel based diesel engine using neuro-fuzzy techniques combined with genetic algorithm	2020	Fuel	280				10.1016/j.fuel.2020.118629	Article	SCI
40.	Singh, Y., Sharma, A., Singh, N.K., Chen, W.-H.	Development of bio-based lubricant from modified desert date oil (balanites aegyptiaca) with copper nanoparticles addition and their tribological analysis	2020	Fuel	259				10.1016/j.fuel.2019.116259	Article	SCI
41.	Singh, Y., Sharma, A., Singh, N.K., Noor, M.M.	Effect of SiC nanoparticles concentration on novel feedstock Moringa Oleifera chemically treated with neopentylglycol and their tribological behavior	2020	Fuel	280				10.1016/j.fuel.2020.118630	Article	SCI
42.	Singh, Y., Singh, D., Singla, A., Sharma, A., Kumar Singh, N.	Chemical modification of juliflora oil with trimethylolpropane (TMP) and effect of TiO ₂ nanoparticles concentration during tribological investigation	2020	Fuel	280				10.1016/j.fuel.2020.118704	Article	SCI

43.	Gupta, N.K., Verma, S.K., Rathore, P.K.S., Sharma, A.	Effects of CuO/water nanofluid application on thermal performance of mesh wick heat pipe	2020	Heat Transfer Research	51	9	837	850	10.1615/H EATTRAN SRES.2020 030772	Article	SCI
44.	Kumar Singh, K., Kumar, R., Gupta, A.	Comparative energy, exergy and economic analysis of a cascade refrigeration system incorporated with flash tank (HTC) and a flash intercooler with indirect subcooler (LTC) using natural refrigerant couples	2020	Sustainable Energy Technologies and Assessments	39				10.1016/j.s eta.2020.10 0716	Article	SCI
45.	Nag, A., Srivastava, A.K., Dixit, A.R., Mandal, A., Das, A.K.	Study of surface integrity and effect of process parameters in wire electrical discharge turning of ti-6al-4v	2020	Indian Journal of Engineering and Materials Sciences	27	2	267	276		Article	SCI
46.	Dewangan, A., Yadav, A.K., Mallick, A., Tyagi, A.	Optimisation of biodiesel production and engine performance from Simarouba oil in compression ignition engine	2020	International Journal of Oil, Gas and Coal Technology	25	3	357	376		Article	SCI
47.	Bhatnagar, P., Kaura, S., Rajan, S.	Predictive models and analysis of peak and flatten curve values of COVID- 19 cases in India	2020	Evergreen	7	4	458	467	10.5109/41 50465	Article	SCOPUS
48.	Kumar, A., Tiwari Brij, K., Mishra, M., Mishra, R.K.	4-[(E)-(4-hydroxy- 2-oxo-2H-1- benzopyran-3- yl)diazonyl]-N-(6- methoxyppyridazin e-3-yl)benzene-1- sulphonamide: A new antivirucidal agent for Herpes Simplex virus type- 1	2020	Research Journal of Chemistry and Environment	24	12	134	139		Article	SCOPUS
49.	Dharmendra, K., Mishra, A.	The study of pressure derivative of bulk modulus at extreme compression	2020	International Journal of Scientific and Technology Research	9	1	2077	2081		Article	SCOPUS

50.	Nishad, D., Nigam, K., Tikkiwal, V.A., Kumar, S.	Performance Analysis of Double Gated GaAs-Ge Based Hetero Tunnel Field Effect Transistor	2020	2020 6th International Conference on Signal Processing and Communication , ICSC 2020			284	287	10.1109/IC SC48311.2 020.918272 2	Confere nce Paper	SCOPUS
51.	Priya, B., Thakur, G.K., Garg, S.K., Ali, M.S.	Robust stability of Markovian jumping neural networks with time-varying delays	2020	Nonlinear Dynamics and Systems Theory	20	5	535	541		Article	SCOPUS
52.	Priya, B., Thakur, G.K., Sharma, P.K.	On uncertain nodule fuzzy graph & resemblance coefficients	2020	Journal of Mathematical and Computational Science	10	5	1730	1747	10.28919/j mcs/4522	Article	SCOPUS
53.	Thakur, G.K., Priya, B.	A novel computation for predicting time series using fuzzy logical distance connectivity function and visibility graph theory	2020	Mathematical Modeling and Computing	7	1	14	21	10.23939/m mc2020.01. 014	Article	SCOPUS
54.	Thakur, G.K., Priya, B., Sharma, P.K.	Optimal selection of network in heterogeneous environment based on fuzzy approach	2020	Journal of Mathematical and Computational Science	10	3	554	571	10.28919/J MCS/4456	Article	SCOPUS
55.	Saxena, P., Shukla, P.	A review of polymer electrets and their applications	2020	Materials Performance and Characterizatio n	9	1			10.1520/M PC2020012 6	Review	SCOPUS
56.	Sharma, S., Gupts, S., Suther, B., Singh, K.S.	Design of a tunable transmission mode filter using 1D Ge based nonlinear photonic crystal	2020	AIP Conference Proceedings	2220				10.1063/5.0 001128	Confere nce Paper	SCOPUS
57.	Awasthi, S., Kapoor, E., Srivastava, A.P., Sanyal, G.	A new alzheimer's disease classification technique from brain MRI images	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			515	520	10.1109/IC CAKM468 23.2020.90 51485	Confere nce Paper	SCOPUS
58.	Awasthi, S., Kumar, N., Srivastava, P.K.	A study of epidemic approach for worm propagation in wireless sensor network	2020	Advances in Intelligent Systems and Computing	1125		315	326	10.1007/97 8-981-15- 2780-7_36	Confere nce Paper	SCOPUS

59.	Awasthi, S., Mahadani, A.K., Sanyal, G., Bhattacharjee, P.	Modified indel treatment for accurate phylogenetic tree construction	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			431	435	10.1109/ICCAKM46823.2020.9051493	Conference Paper	SCOPUS
60.	Dwivedy, B., Bhola, A.K.	Improved data dissemination protocol for VANET using whale optimization algorithm	2020	Advances in Intelligent Systems and Computing	1125		153	161	10.1007/978-981-15-2780-7_19	Conference Paper	SCOPUS
61.	Agarwal, R., Gautam, A., Dixit, P., Rana, A.	An Approach to Mine Frequent Item Sets Considering Negative Item Values	2020	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)			208	211	10.1109/ICRITO48877.2020.9197870	Conference Paper	SCOPUS
62.	Joshi, S., Dwivedi, A.	RFID SYSTEM- Used for Monitoring and Tracking Patient(MTP)	2020	2020 International Conference on Computer Science, Engineering and Applications, ICCSEA 2020					10.1109/ICCSEA49143.2020.9132938	Conference Paper	SCOPUS
63.	Kumar, R., Sagar, L.K., Awasthi, S.	Human activity recognition from video clip	2020	Advances in Intelligent Systems and Computing	1125		269	274	10.1007/978-981-15-2780-7_31	Conference Paper	SCOPUS
64.	Mishra, A., Yadav, R., Kumar, L.	Edge detection through dynamic programming in ultrasound gray scale digital images	2020	Advances in Intelligent Systems and Computing	1125		177	185	10.1007/978-981-15-2780-7_22	Conference Paper	SCOPUS
65.	Yadav, V., Mishra, D.K., Singh, P., Tripathi, P.K.	Home automation system using Raspberry Pi Zero W	2020	International Journal of Advanced Intelligence Paradigms	16	2	216	226	10.1504/IJAIP.2020.107023	Article	SCOPUS
66.	Singh, N., Rajput, G., Dixit, Y., Sehgal, A.	DNA Sequence Alignment Using Dynamic Programming	2020	Advances in Intelligent Systems and Computing	1034		809	817	10.1007/978-981-15-1084-7_79	Conference Paper	SCOPUS
67.	Aggarwal, A., Rani, A., Kumar, M.	A robust method to authenticate car license plates using segmentation and ROI based approach	2020	Smart and Sustainable Built Environment	9	4	737	747	10.1108/SASBE-07-2019-0083	Article	SCOPUS

68.	Sagar, L.K., Bhagwan Das, D.	Development of decision support system by smart monitoring of micro grid	2020	Advances in Intelligent Systems and Computing	1125		117	126	10.1007/97 8-981-15- 2780-7_15	Confere nce Paper	SCOPUS
69.	Shrivastava, P., Agarwal, P., Rahul, Monika	WiFi Data Leakage Detection	2020	IOP Conference Series: Materials Science and Engineering	804	1			10.1088/17 57- 899X/804/1 /012042	Confere nce Paper	SCOPUS
70.	Khan, R., Shukla, A.K., Sharma, M., Phanden, R.K., Mishra, S.	Thermodynamic investigation of intercooled reheat gas turbine combined cycle with carbon capture and methanation	2020	Materials Today: Proceedings	38		449	455	10.1016/j.m atpr.2020.0 7.680	Confere nce Paper	SCOPUS
71.	Dwivedi, S., Vardhan, M., Tripathi, S., Shukla, A.K.	Implementation of adaptive scheme in evolutionary technique for anomaly-based intrusion detection	2020	Evolutionary Intelligence	13	1	103	117	10.1007/s1 2065-019- 00293-8	Article	SCOPUS
72.	Shukla, A.K.	Multi-population adaptive genetic algorithm for selection of microarray biomarkers	2020	Neural Computing and Applications	32	15	11897	11918	10.1007/s0 0521-019- 04671-2	Article	SCOPUS
73.	Shukla, A.K., Pippal, S.K., Gupta, S., Ramachandra Reddy, B., Tripathi, D.	Knowledge discovery in medical and biological datasets by integration of Relief-F and correlation feature selection techniques	2020	Journal of Intelligent and Fuzzy Systems	38	5	6637	6648	10.3233/JIF S-179743	Confere nce Paper	SCOPUS
74.	Shukla, A.K., Tripathi, D., Reddy, B.R., Chandramoha n, D.	A study on metaheuristics approaches for gene selection in microarray data: algorithms, applications and open challenges	2020	Evolutionary Intelligence	13	3	309	329	10.1007/s1 2065-019- 00306-6	Review	SCOPUS
75.	Singh, M.K., Rishi, O.P., Awasthi, S., Srivastava, A.P., Wadhwa, S.	Classification and comparison of web recommendation systems used in online business	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			471	480	10.1109/IC CAKM468 23.2020.90 51511	Confere nce Paper	SCOPUS

76.	Gera, A., Singh, P.K., Munjal, D.K.	A coherent cluster head selection algorithm based on pinnacle weight	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			125	129	10.1109/ICCAKM46823.2020.9051487	Confere nce Paper	SCOPUS
77.	Rahul, G.K., Singh, S., Dubey, S.	Weather Forecasting Using Artificial Neural Networks	2020	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)			21	26	10.1109/ICRITO48877.2020.9197993	Confere nce Paper	SCOPUS
78.	Varshney, I.	Mobile ad hoc network and wireless sensor network: A study of recent research trends in worldwide aspects	2020	Advances in Intelligent Systems and Computing	1125		57	62	10.1007/978-981-15-2780-7_8	Confere nce Paper	SCOPUS
79.	Varshney, I., Prakash, S.	Role of ad hoc and sensor network for effective business communication	2020	Advances in Intelligent Systems and Computing	1125		25	31	10.1007/978-981-15-2780-7_4	Confere nce Paper	SCOPUS
80.	Yadav, R.S., Mishra, A., Srivastava, A.P., Singh, M.K.	A novel energy efficient scheme for wireless sensor network	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			466	470	10.1109/ICCAKM46823.2020.9051515	Confere nce Paper	SCOPUS
81.	Yadav, S.P., Yadav, S.	Image fusion using hybrid methods in multimodality medical images	2020	Medical and Biological Engineering and Computing	58	4	669	687	10.1007/s11517-020-02136-6	Review	SCOPUS
82.	Chauhan, N., Agarwal, R., Garg, K., Choudhury, T.	Redundant Iaas Cloud Selection with Consideration of Multi Criteria Decision Analysis	2020	Procedia Computer Science	167		1325	1333	10.1016/j.procs.2020.03.448	Confere nce Paper	SCOPUS
83.	Sehgal, A., Agrawal, R., Bhardwaj, R., Singh, K.K.	Reliability Analysis of Wireless Link for IOT Applications under Shadow-Fading Conditions	2020	Procedia Computer Science	167		1515	1523	10.1016/j.procs.2020.03.362	Confere nce Paper	SCOPUS
84.	Kumar, R., Tripathi, S., Agrawal, R.	A Review on Security in Wireless Sensor Network	2020	2020 International Conference on Emerging Smart Computing and Informatics, ESCI 2020			304	308	10.1109/ESCI48226.2020.9167610	Confere nce Paper	SCOPUS

85.	Kumar, R., Tripathi, S., Agrawal, R.	An analysis and comparison of security protocols on wireless sensor networks (WSN)	2020	Lecture Notes in Networks and Systems	82		3	21	10.1007/978-981-13-9574-1_1	Book Chapter	SCOPUS
86.	Kumar, R., Tripathi, S., Agrawal, R.	Enhanced shortest path routing protocol using fuzzy C-means clustering for compromised WSN to control risk	2020	Lecture Notes in Networks and Systems	82		399	415	10.1007/978-981-13-9574-1_17	Book Chapter	SCOPUS
87.	Kaushik, A.K., Choudhary, S., Awasthi, S., Srivastava, A.P.	Novel approach to detect and extract the contents in a picture or image	2020	Advances in Intelligent Systems and Computing	1125		81	89	10.1007/978-981-15-2780-7_11	Conference Paper	SCOPUS
88.	Kaushik, A.K., Sachan, S., Gupta, S., Choudhary, S.	Concept of cancer treatment by heating methodology of microwave	2020	Advances in Intelligent Systems and Computing	1125		73	80	10.1007/978-981-15-2780-7_10	Conference Paper	SCOPUS
89.	Mishra, A., Choudhary, S., Vats, M., Sachan, S.	LEACH with pheromone energy efficient routing in wireless sensor network	2020	Advances in Intelligent Systems and Computing	1125		91	98	10.1007/978-981-15-2780-7_12	Conference Paper	SCOPUS
90.	Shukla, V., Choudhary, S., Vats, M., Sachan, S.	Distortion analysis for open signals using 4092 distortion analyzer	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			443	446	10.1109/ICCAKM46823.2020.9051535	Conference Paper	SCOPUS
91.	Choudhary, S., Sharma, A., Gupta, S., Purohit, H., Sachan, S.	Use of RSM technology for the optimization of received signal strength for LTE signals under the influence of varying atmospheric conditions	2020	Evergreen	7	4	500	509	10.5109/4150469	Article	SCOPUS
92.	Choudhary, S., Sharma, A., Srivastava, K., Purohit, H., Vats, M.	Read range optimization of low frequency rfid system in hostile environmental conditions by using rsm approach	2020	Evergreen	7	3	396	403		Article	SCOPUS

93.	Kumari, N., Bir, P., Karatangi, S.V., Prachi, Agarwal, R.	Implication Node built Directed Acyclic Graph (INDAG) based Visual Aid	2020	ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)			14	16	10.1109/IC RITO48877 .2020.9197 830	Confere nce Paper	SCOPUS
94.	Krishna, R., Sharma, K., Gupta, R., Naruka, M.S.	Design of Compact Coplanar Band Stop Filter Composed on Open Loop Ring Resonator and Defected Ground Structure (DGS)	2020	2020 International Conference on Contemporary Computing and Applications, IC3A 2020			102	105	10.1109/IC 3A48958.2 020.233279	Confere nce Paper	SCOPUS
95.	Sachan, S., Vats, M., Mishra, A., Choudhary, S.	Comparative analysis of clustering algorithm for wireless sensor networks	2020	Advances in Intelligent Systems and Computing	1125		63	71	10.1007/97 8-981-15- 2780-7_9	Confere nce Paper	SCOPUS
96.	Manisha, Dhull, S.K., Singh, K.K.	ECG Beat Classifiers: A Journey from ANN to DNN	2020	Procedia Computer Science	167		747	759	10.1016/j.p rocs.2020.0 3.340	Confere nce Paper	SCOPUS
97.	Ruhil, N., Singh, M., Mitra, D., Singh, A., Singh, K.K.	Detection of changes from Satellite Images Using Fused Differene Images and Hybrid Kohonen Fuzzy C- Means Sigma	2020	Procedia Computer Science	167		431	439	10.1016/j.p rocs.2020.0 3.252	Confere nce Paper	SCOPUS
98.	Singh, M., Tyagi, K.D., Singh, A., Singh, K.K.	Detection of changes in Landsat Images using Hybrid PSO-FCM	2020	Procedia Computer Science	167		423	430	10.1016/j.p rocs.2020.0 3.251	Confere nce Paper	SCOPUS
99.	Dubey, S., Singh, P., Yadav, P., Singh, K.K.	Household Waste Management System Using IoT and Machine Learning	2020	Procedia Computer Science	167		1950	1959	10.1016/j.p rocs.2020.0 3.222	Confere nce Paper	SCOPUS
100.	Maheshwari, K., Maheshwari, S., Yadav, P.	Design of Configurable Analog Block- Based Oscillator and Possible Applications	2020	Lecture Notes in Networks and Systems	106		621	630	10.1007/97 8-981-15- 2329-8_63	Book Chapter	SCOPUS
101.	Ansari, M.A., Mehrotra, R., Agrawal, R.	Detection and classification of brain tumor in MRI images using wavelet transform and support vector machine	2020	Journal of Interdisciplinar y Mathematics	23	5	955	966	10.1080/09 720502.202 0.1723921	Article	SCOPUS

102	Dipraj, Vishwakarma, S., Singh, J.	Social Internet of Things: The collaboration of Social Network and Internet of Things and its Future	2020	Proceedings - IEEE 2020 2nd International Conference on Advances in Computing, Communication Control and Networking, ICACCCN 2020			535	539	10.1109/ICACCCN51052.2020.9362847	Conference Paper	SCOPUS
103	Mehrotra, R., Ansari, M.A., Agrawal, R.	A Novel Scheme for Detection Feature Extraction of Brain Tumor by Magnetic Resonance Modality Using DWT SVM	2020	2020 International Conference on Contemporary Computing and Applications, IC3A 2020			225	230	10.1109/IC3A48958.2020.233302	Conference Paper	SCOPUS
104	Choudhary, P., Tripathi, A., Singh, A.K., Vashist, P.C.	Implementation of integrated security system by using biometric function in ATM machine	2020	Advances in Intelligent Systems and Computing	1125		33	42	10.1007/978-981-15-2780-7_5	Conference Paper	SCOPUS
105	Mishra, A., Shukla, S., Singh, A.K., Gupta, A.	DTSS and clustering for energy conservation in wireless sensor network	2020	Advances in Intelligent Systems and Computing	1125		43	50	10.1007/978-981-15-2780-7_6	Conference Paper	SCOPUS
106	Singh, A., Singh, D., Singh, A.K., Pandey, H., Vashist, P.C.	Security through optimization techniques of firewall rule sets	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			452	455	10.1109/ICCAKM46823.2020.9051476	Conference Paper	SCOPUS
107	Singh, A.K., Firoz, N., Tripathi, A., Singh, K.K., Choudhary, P., Vashist, P.C.	Internet of Things: From hype to reality	2020	An Industrial IoT Approach for Pharmaceutical Industry Growth: Volume 2			191	230	10.1016/B978-0-12-821326-1.00007-3	Book Chapter	SCOPUS
108	Singh, A.K., Tripathi, A., Choudhary, P., Vashist, P.C.	Research and challenges of security privacy in internet of things (IoT)	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			487	492	10.1109/ICCAKM46823.2020.9051526	Conference Paper	SCOPUS
109	Pandey, H., Singh, A., Srivastava, A.P.	Position based key distribution mechanism in wireless sensor network	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			447	451	10.1109/ICCAKM46823.2020.9051461	Conference Paper	SCOPUS

110	Tripathi, A., Jain, A., Mishra, K.K., Pandey, A.B., Vashist, P.C.	MCNN: A deep learning based rapid diagnosis method for COVID-19 from the X-ray images	2020	Revue d'Intelligence Artificielle	34	6	673	682	10.18280/RIA.340601	Article	SCOPUS
111	Tripathi, A., Singh, A.K., Sirohi, A.K., Vashist, P.C.	Iterative differential evolution with real parameter encoding	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			462	465	10.1109/ICCAKM46823.2020.9051484	Conference Paper	SCOPUS
112	Tripathi, A., Srivastava, R.P., Singh, A.K., Choudhary, P., Vashist, P.C.	Diagnosis of Cough and Cancer Using Image Compression and Decompression Techniques	2020	Advances in Intelligent Systems and Computing	1097		357	368	10.1007/978-981-15-1518-7_30	Conference Paper	SCOPUS
113	Tyagi, N., Rana, A., Kansal, V.	Load distribution challenges with virtual computing	2020	Advances in Intelligent Systems and Computing	1125		51	56	10.1007/978-981-15-2780-7_7	Conference Paper	SCOPUS
114	Vashist, P.C., Pandey, A., Tripathi, A.	A comparative study of handwriting recognition techniques	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			456	461	10.1109/ICCAKM46823.2020.9051464	Conference Paper	SCOPUS
115	Kaushik, R., Srivastava, P.K., Tiwari, S.	Services standardization in banking sector in india: Comparison between nationalized, private and foreign banks in India	2020	Proceedings of International Conference on Computation, Automation and Knowledge Management, ICCAKM 2020			505	514	10.1109/ICCAKM46823.2020.9051531	Conference Paper	SCOPUS
116	Kumar, S., Gaur, M.S.	Call admission control in mobile multimedia network using grey wolf optimization	2020	Advances in Intelligent Systems and Computing	1125		229	239	10.1007/978-981-15-2780-7_27	Conference Paper	SCOPUS
117	Chauhan, S.L.S., Bhaduri, S.C.	Structural analysis of a four-bar linkage mechanism of prosthetic knee joint using finite element method	2020	Evergreen	7	2	209	215	10.5109/4055220	Article	SCOPUS
118	Chauhan, S.S.	Kinematic and kinetic gait analysis of bilateral knee osteoarthritis and its effects on ankle and hip gait mechanics	2020	Evergreen	7	3	359	365		Article	SCOPUS

119	Chauhan, S.S., Khare, A.K.	Kinematic analysis of the ABB IRB 1520 industrial robot using roboanalyzer software	2020	Evergreen	7	4	510	518	10.5109/4150470	Article	SCOPUS
120	Kumar, S., Dwivedi, V.K., Dwivedi, S.P.	Waste material produced from industry and its utilization in development of green composite material: A review	2020	Materials Today: Proceedings	43		490	496	10.1016/j.matpr.2020.12.021	Conference Paper	SCOPUS
121	Yadav, R., Dwivedi, V.K., Dwivedi, S.P.	Eggshell and rice husk ash utilization as reinforcement in development of composite material: A review	2020	Materials Today: Proceedings	43		426	433	10.1016/j.matpr.2020.11.717	Conference Paper	SCOPUS
122	Dwivedi, S.P., Dwivedi, G.	Utilization of recycled hazardous waste bagasse as reinforcement to develop green composite material	2020	World Journal of Engineering	17	3	399	406	10.1108/WJE-03-2019-0069	Article	SCOPUS
123	Dwivedi, S.P., Maurya, M., Maurya, N.K., Srivastava, A.K., Sharma, S., Saxena, A.	Utilization of groundnut shell as reinforcement in development of aluminum based composite to reduce environment pollution: A review	2020	Evergreen	7	1	15	25	10.5109/2740937	Review	SCOPUS
124	Dwivedi, S.P., Saxena, A.	Microstructure, mechanical and thermal behaviour of Al-Clay composite material developed by stir casting technique	2020	Clay Research	39	1	9	15	10.5958/0974-4509.2020.00002.9	Article	SCOPUS
125	Dwivedi, S.P., Srivastava, A.K., Maurya, N.K., Sahu, R.	Microstructure and mechanical behaviour of Al/SiC/agro-waste RhA hybrid metal matrix composite	2020	Revue des Composites et des Matériaux Avancés	30	1	43	47	10.18280/rcma.300107	Article	SCOPUS
126	Dwivedi, V.K., Dwivedi, S.P., Yadav, R.	Effect of heat treatment process on microstructure and mechanical behaviour of Al/MgO composite material	2020	Advances in Materials and Processing Technologies					10.1080/2374068X.2020.1829955	Article	SCOPUS

127	Maurya, R.K., Niranjan, M.S., Maurya, N.K., Dwivedi, S.P.	Development of a system to control flow of coolant in turning operation	2020	Journal of Mechanical Engineering	17	1	17	31		Article	SCOPUS
128	Sharma, P., Dwivedi, S.P., Dwivedi, V.K.	Physical, mechanical and thermal behaviour of high entropy materials	2020	Annales de Chimie: Science des Materiaux	44	2	127	132	10.18280/a csm.44020 8	Article	SCOPUS
129	Sharma, P., Dwivedi, V.K., Dwivedi, S.P.	Development of high entropy alloys: A review	2020	Materials Today: Proceedings	43		502	509	10.1016/j.m atpr.2020.1 2.023	Confere nce Paper	SCOPUS
130	Verma, S.K., Dwivedi, V.K., Dwivedi, S.P.	Utilization of aluminium dross for the development of valuable product - A review	2020	Materials Today: Proceedings	43		547	550	10.1016/j.m atpr.2020.1 2.045	Confere nce Paper	SCOPUS
131	Kumar, B., Sahu, R., Mishra, M.	Optimization of process parameter for commercially pure aluminium alloy during friction stir deformation	2020	Advances in Materials and Processing Technologies					10.1080/23 74068X.20 20.1860601	Article	SCOPUS
132	Maurya, M., Kumar, S., Maurya, N.K.	Composites prepared via friction stir processing technique: A review	2020	Revue des Composites et des Materiaux Avances	30	4-Mar	143	151	10.18280/rc ma.303-404	Review	SCOPUS
133	Mishra, R.K., Garg, S.K., Mishra, R.	Error estimation by new family of generalized Bernstein type polynomial	2020	AIP Conference Proceedings	2253				10.1063/5.0 019247	Confere nce Paper	SCOPUS
134	Pratim Das, P., Aditya Bachchan, A., Sahu, R., Chaudhary, V.	Whole body vibration: Effects on human body and role of biomaterials in repairing fracture joints and tissues	2020	Materials Today: Proceedings	43		141	147	10.1016/j.m atpr.2020.1 1.250	Confere nce Paper	SCOPUS
135	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	2020	Advances in Materials and Processing Technologies					10.1080/23 74068X.20 20.1807244	Article	SCOPUS
136	Rastogi, P.M., Kumar, N., Sharma, A., Vyas, D., Gajbhiye, A.	Sustainability of aluminium oxide nanoparticles blended mahua biodiesel to the direct injection diesel engine performance and emission analysis	2020	Pollution	6	1	25	33	10.22059/P OLL.2019. 283884.633	Article	SCOPUS

137	Singh, N.K., Singh, Y., Sharma, A., Prasad, R.	Experimental investigation of flushing approaches on EDM machinability during machining of titanium alloy	2020	Materials Today: Proceedings	38		139	145	10.1016/j.matpr.2020.06.165	Conference Paper	SCOPUS
138	Singh, N.K., Upadhyay, R.K., Singh, Y., Sharma, A.	Intelligent hybrid approaches for ensuring better prediction of gas-assisted EDM responses	2020	SN Applied Sciences	2	5			10.1007/s42452-020-2654-y	Article	SCOPUS
139	Singh, Y., Gwalwanshi, M., Negi, P., Badhotiya, G.K., Singh, N.K., Sharma, A.	Performance of castor based biodiesel during tribological characterization at different load	2020	Materials Today: Proceedings	46		6678	6681	10.1016/j.matpr.2021.04.146	Conference Paper	SCOPUS
140	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	2020	Advances in Materials and Processing Technologies					10.1080/2374068X.2020.1829956	Article	SCOPUS
141	Singh, Y., Singh, N.K., Sharma, A., Kishore, C., Raturi, A.	Madhuca Indica (Mahua): A novel feedstock for bio based lubricant application treated with trimethylolpropane and tribological analysis	2020	Australian Journal of Mechanical Engineering					10.1080/14484846.2020.1842300	Article	SCOPUS
142	Singh, Y., Singla, A., Sharma, A., Singh, N.K.	Performance and emission characteristics of the diesel engine running on neem (azadirachta indica) biodiesel with effect of exhaust gas recirculation at optimum injection strategies	2020	Pollution	6	4	725	735	10.22059/poll.2020.300881.781	Article	SCOPUS
143	Gautam, R., Ansari, N., Sharma, A., Singh, Y.	Development of the ethyl ester from jatropa oil through response surface methodology approach	2020	Pollution	6	1	135	148	10.22059/POLL.2019.284612.642	Article	SCOPUS
144	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	2020	International Journal of Ambient Energy					10.1080/01430750.2020.1824941	Article	SCOPUS

145	Kumar, S., Srivastava, A.K., Singh, R.K.	Fabrication of AA7075 hybrid green metal matrix composites by friction stir processing technique	2020	Annales de Chimie: Science des Materiaux	44	4	295	300	10.18280/a csm.44040 9	Article	SCOPUS
146	Srivastava, A.K., Dubey, A., Kumar, M., Dwivedi, S.P., Singh, R.K., Kumar, S.	Measurement of form errors and comparative cost analysis for the component developed by metal printing (DMLS) and stir casting	2020	Instrumentation Mesure Metrologie	19	5	363	369	10.18280/i2 m.190506	Article	SCOPUS
147	Srivastava, A.K., Dwivedi, S.P., Maurya, N.K., Maurya, M.	3D visualization and topographical analysis in turning of hybrid MMC by CNC lathe SPRINT 16TC made of BATLIBOI	2020	Evergreen	7	2	202	208	10.5109/40 55217	Article	SCOPUS
148	Srivastava, A.K., Dwivedi, S.P., Maurya, N.K., Sahu, R.	Surface roughness report and 3D surface analysis of hybrid Metal Matrix Composites (MMC) during Abrasive Water Jet (AWJ) cutting	2020	Revue des Composites et des Materiaux Avances	30	4-Mar	169	174	10.18280/rc ma.303-407	Article	SCOPUS
149	Srivastava, A.K., Maurya, N.K., Maurya, M., Dwivedi, S.P., Saxena, A.	Effect of multiple passes on microstructural and mechanical properties of surface composite al 2024/sic produced by friction stir processing	2020	Annales de Chimie: Science des Materiaux	44	6	421	426	10.18280/A CSM.4406 08	Article	SCOPUS
150	Srivastava, A.K., Sharma, B., Saju, B.R., Shukla, A., Saxena, A., Maurya, N.K.	Effect of Graphene nanoparticles on microstructural and mechanical properties of aluminum based nanocomposites fabricated by stir casting	2020	World Journal of Engineering	17	6	859	866	10.1108/W JE-04- 2020-0128	Article	SCOPUS
151	Tiwari, S., Sahu, A.K., Pathak, R.P.	Mechanical Properties and Durability Study of Jute Fiber Reinforced Concrete	2020	IOP Conference Series: Materials Science and Engineering	961	1			10.1088/17 57- 899X/961/1 /012009	Confere nce Paper	SCOPUS

152	Yadav, V.K., Yadav, V.K., Yadav, J.P.	Cognizance on pandemic corona virus infectious disease (Covid-19) by using statistical technique: A study and analysis	2020	Evergreen	7	3	329	335		Article	SCOPUS
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