

Annexure - 68

List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2022-23

S.No.	Authors	Title	Source Title	DOI
1	Bellam J.B. , Bhargavi M., Kuchi C., Saha D., Chandra Sekhar M., Verma V.K.	Deposition and characterization of CuI thin film as hole transporting layer for perovskite solar cells	Bulletin of Materials Science	10.1007/s12034-022-02831-0
2	Kumar B., Roy D. , Lakshmi V.	Impact of temperature and precipitation lapse rate on hydrological modelling over Himalayan Gandak River Basin	Journal of Mountain Science	10.1007/s11629-020-6602-5
3	Maity C.K., De S., Acharya S., Siddiki S.H., Sahoo S. , Verma K., Thakur V.K., Nayak G.C.	Copper oxide stabilized oxy-functionalized boron nitride-carbon nanotube nanohybrid: An ultra-stable electrode for flexible asymmetric supercapacitor device in ionic electrolyte	Journal of Energy Storage	10.1016/j.est.2022.105928
4	Bojjagani S., Reddy Y.C.A.P., Anuradha T., Rao P.V.V. , Reddy B.R., Khan M.K.	Secure Authentication and Key Management Protocol for Deployment of Internet of Vehicles (IoV) Concerning Intelligent Transport Systems	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2022.3207593
5	Hussain I., Lamiel C., Sahoo S. , Javed M.S., Ahmad M., Chen X., Gu S., Qin N., Assiri M.A., Zhang K.	Animal- and Human-Inspired Nanostructures as Supercapacitor Electrode Materials: A Review	Nano-Micro Letters	10.1007/s40820-022-00944-z
6	Sheikh T.A., Deekshitha S. , Shalini N., Indira P., Rajasekaran S., Borah J.	Capacity maximization in cell free massive mimo network with access point selection method	International Journal of Sensors, Wireless Communications and Control	10.2174/2210327913666221222145957
7	Shankar R. , Beuria M.K., Kulkarni G.R., Zamani A.S., Krishna P., Krishnan V.G.	Examination of the DL Based Ubiquitous MIMO U/L NOMA System Considering Robust Fading Channel Conditions for Military Communication Scenario	Journal of Information Science and Engineering	10.6688/JISE.202211_38(6).0013
8	Sivaiah A., Ramanujam B. , Ramesh Babu K.	Fluorescent benzofurazan derivatized triazole linked mono and di-glucopyranosyl conjugates: Selective sensing of fluoride ion and coordination features by DFT computation	Carbohydrate Research	10.1016/j.carres.2022.108653
9	Kumar S.A.P., Suresh A., Anand S.R., Chokkanathan K. , Vijayarath M.	Hybridization of Mean Shift Clustering and Deep Packet Inspected Classification for Network Traffic Analysis	Wireless Personal Communications	10.1007/s11277-021-08208-6
10	Zzaman M., Franklin J.B., Kumar A., Dawn R., Verma V.K. , Shahid R., Gupta M.K., Amemiya K., Miura Y., Meena R., Kandasami A., Singh V.R.	Effect of Cr-substitution on vanadium dioxide thin films studied by soft X-ray magnetic circular dichroism	Journal of Alloys and Compounds	10.1016/j.jallcom.2022.165515

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11	Sharma P., Tiwari R.N. , Singh P., Kumar P., Kanaujia B.K.	MIMO Antennas: Design Approaches, Techniques and Applications	Sensors (Basel, Switzerland)	10.3390/s22207813
12	Thirugnanasambandam K., Ramalingam R. , Mohan D., Rashid M., Juneja K., Alshamrani S.S.	Patron–Prophet Artificial Bee Colony Approach for Solving Numerical Continuous Optimization Problems	Axioms	10.3390/axioms11100523
13	Hussain I., Lamiel C., Sahoo S. , Ahmad M., Chen X., Javed M.S., Qin N., Gu S., Li Y., Nawaz T., Ansari M.Z., Zhang K.	Factors affecting the growth formation of nanostructures and their impact on electrode materials: A systematic review	Materials Today Physics	10.1016/j.mtphys.2022.100844
14	Nadeem R., Saif M., Khan N.	Fractional Integral and Derivative Formulae for Multi-index Wright Generalized Bessel Function	International Journal of Applied and Computational Mathematics	10.1007/s40819-022-01333-1
15	Verma V.K. , Sakamoto S., Ishikawa K., Singh V.R., Ishigami K., Shibata G., Kadono T., Koide T., Kuroda S., Fujimori A.	Cr doping-induced ferromagnetism in the spin-glass Cd _{1-x} MnxTe studied by x-ray magnetic circular dichroism	Physica B: Condensed Matter	10.1016/j.physb.2022.414129
16	Peng Y., Wang Y., Raffik R., Jagota V. , Bhatia K.K., Kumar R., Kannan N.	Vibration State Monitoring of Mechanical Equipment Based on Wireless Sensor Network Technology	Electrica	10.5152/electrica.2022.22051
17	Eswaraiah S. , Seo K.-H., Kumar K.N., Ratnam M.V., Koval A.V., Jeong J.-Y., Mengist C.K., Lee Y.-S., Greer K., Hwang J.-Y., Lee W., Pramitha M., Venkata Chalapati G., Venkatarami Reddy M., Kim Y.H.	Anthropogenic Influence on the Antarctic Mesospheric Cooling Observed during the Southern Hemisphere Minor Sudden Stratospheric Warming	Atmosphere	10.3390/atmos13091475
18	Ramalingam R. , Karunanidhy D., Alshamrani S.S., Rashid M., Mathumohan S., Dumka A.	Oppositional Pigeon-Inspired Optimizer for Solving the Non-Convex Economic Load Dispatch Problem in Power Systems	Mathematics	10.3390/math10183315
19	Mohan B. , Oh K.H., Chan Park J., Yusuf M., Park K.H., Youn B.	A simple synthesis of surfactant-free polycrystalline CuO nanoparticles supported on carbon nanofibers for regioselective hydroboration of alkynes	RSC Advances	10.1039/d2ra04668g
20	Prasanth A., Getachew S., Shewa T., Velumani M. , Meher S.R., Alex Z.C.	A Bilayer SnO ₂ /MoS ₂ -Coated Evanescent Wave Fiber Optic Sensor for Acetone Detection—An Experimental Study	Biosensors	10.3390/bios12090734

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21	Ramalingam R. , Muniyan R., Dumka A., Singh D.P., Mohamed H.G., Singh R., Anand D., Noya I.D.	Routing Protocol for MANET Based on QoS-Aware Service Composition with Dynamic Secured Broker Selection	Electronics (Switzerland)	10.3390/electronics11172637
22	Babu M V., Kumar C.N.S.V., Parthiban S., Padmavathi U. , Rahman M.Z.U.	AE-LEACH: An Incremental Clustering Approach for Reducing the Energy Consumption in WSN	Microprocessors and Microsystems	10.1016/j.micpro.2022.104602
23	Singh A., Sinha M.K., Jagota V. , Kumar R.	Production, characterisation and utilisation of grinding swarf/feedstock for synthesis of metal matrix composite through powder metallurgy process: A short communication	Sadhana - Academy Proceedings in Engineering Sciences	10.1007/s12046-022-01923-1
24	Zeng J., Devarayapalli K.C., Nallabala N.K.R. , Prabhakar Vattikuti S.V., Shim J.	Synthesis and photocatalytic activity of bismuth carbonate micro-nanoplates	Inorganic Chemistry Communications	10.1016/j.inoche.2022.109820
25	Bahadur J. , Ghahremani A.H., Martin B., Pishgar S., Sunkara M.K., Druffel T., Pal K.	Solution-Processed Cu:SnO ₂ as an Efficient Electron Transport Layer for Fabrication of Low-Temperature Planar Perovskite Solar Cell under Ambient Conditions	IEEE Journal of Photovoltaics	10.1109/JPHOTOV.2022.3162340
26	Muhiuddin G., Pramanik T., Alanazi A.M., Mahboob A. , Pal M.	Independent Fuzzy Graph: A New Approach	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	10.1007/s40010-022-00769-w
27	Ramalingam R. , Karunanidhy D., Balakrishnan A., Rashid M., Dumka A., Afifi A., Alshamrani S.S.	OGWO-CH: Hybrid Opposition-Based Learning with Gray Wolf Optimization Based Clustering Technique in Wireless Sensor Networks	Electronics (Switzerland)	10.3390/electronics11162593
28	Al-Tahan M., Davvaz B., Mahboob A. , Hoskova-Mayerova S., Vagaská A.	On New Filters in Ordered Semigroups	Symmetry	10.3390/sym14081564
29	Muniyan R., Ramalingam R. , Alshamrani S.S., Gangodkar D., Dumka A., Singh R., Gehlot A., Rashid M.	Artificial Bee Colony Algorithm with Nelder–Mead Method to Solve Nurse Scheduling Problem	Mathematics	10.3390/math10152576
30	Baruah S. , Borah J., Bora J., Maity S.	Optical modelling of a GaAs/GaSb core–shell cone-topped octagonal-faced nanopillar array with periodic trapezoidal textured cut for high photon trapping efficiency	Journal of Computational Electronics	10.1007/s10825-022-01898-6

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31	Saha D., Gurung J., Roy B., Pulikkal A.K., Bhowmik A., Pattanayak S.	Optimizing pyrolysis process parameters of plastic grocery bag, with mass–energy assessment and characterization of oil at optimal condition	Clean Technologies and Environmental Policy	10.1007/s10098-022-02298-x
32	Arun I., Yuvaraj C. , Sivakumar A., Thamizhmanii S.	Micro-structure and self-lubricant properties of powder mixed electrical discharge metal matrix composite coating	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	10.1177/09544089211062665
33	Sudhakar T., Sambath Kumar S., Ravi V., Ramalingam R. , Dua S.	Neighborhood rough set-based route selection for mobile ad hoc networks	International Journal of Communication Systems	10.1002/dac.5178
34	Shankar R. , Ahmad A., Veerappan S., Beuria M.K., Krishna P., Singh S.S., Krishnan V.G.	Examination of User Pairing NOMA System Considering the DQN Scheme Over Time-Varying Fading Channel Conditions	Journal of Information Science and Engineering	10.6688/JISE.202207_38(4).0010
35	Dastagiri S., Lakshmaiah M.V., Manjunath V., Nallabala N.K.R. , Ravi N., Dhanalakshmi M., Kukkambakam C., Krishnaiah K.V., Reddy V.R.M.	INVESTIGATIONS ON FUNCTIONAL PROPERTIES OF Al _{0.8} Eu _y La _{0.2-y} TiO ₃ (y = 0.01 - 0.04) NANOPARTICLES SYNTHESIZED BY HYDROTHERMAL METHOD	Surface Review and Letters	10.1142/S0218625X22500974
36	Narasimha Murthy K.V. , Kishore Kumar G.	Distribution and Prediction of Monsoon Rainfall in Homogeneous Regions of India: A Stochastic Approach	Pure and Applied Geophysics	10.1007/s00024-022-03042-8
37	Mahesh M. , Harigovindan V.P.	Hidden terminal aware grouping scheme for IEEE 802.11ah based dense IoT networks	Computer Communications	10.1016/j.comcom.2022.04.033
38	Pal R.	Electrochemical characterisation of catalytic property for oxygen reduction reaction on cobalt ferrite electrode	Ferroelectrics	10.1080/00150193.2022.2130789
39	Pornavalai C., Tanessakulwattana S., Chakraborty G.	A Novel Precomputed Optimal Procrastination Time Interval for Re-clustering to Maximize Operation Time of Wireless Sensor Networks	IEEE Transactions on Network and Service Management	10.1109/TNSM.2022.3229740
40	Vivekananda G.N. , Jarwar M.A., Jaber M.M., Prakash C., Buddhi D., Gnanasigamani L.J., Sanz-Prieto I.	Effective two-tier tokenization for intelligent transportation supply chain systems using hybrid optimized query expansion	Multimedia Tools and Applications	10.1007/s11042-022-14317-6
41	Yao W., Jagota V. , Kumar R., Ather D., Jain V., Quraishi S.J., Osei-Owusu J.	Study and Application of an Elevator Failure Monitoring System Based on the Internet of Things Technology	Scientific Programming	10.1155/2022/2517077

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42	Sreenivasulu G., Sahoo N.C., Balakrishna P.	A coordinated stochastic dispatch model for hybrid energy markets with renewable energy uncertainties using moth flame optimization	Energy Systems	10.1007/s12667-022-00535-2
43	Paul S., D U., Naidu Y., Reddy Y.	An efficient SIFT-based matching algorithm for optical remote sensing images	Remote Sensing Letters	10.1080/2150704X.2022.2121186
44	Mishra B.P., Barik M.	Free Flexural Vibration Analysis of Thin Plates Using NURBS-Augmented Finite-Element Method	Journal of Vibration Engineering and Technologies	10.1007/s42417-022-00639-0
45	Kuppusamy, P; Kumari, NMJ; Alghamdi, WY; Alyami, H; Ramalingam, R; Javed, AR; Rashid, M	Copper oxide stabilized oxy-functionalized boron nitride-carbon nanotube nanohybrid: An ultra-stable electrode for flexible asymmetric supercapacitor device in ionic electrolyte	Journal of Energy Storage	https://doi.org/10.1016/j.est.2022.105928
46	Bellam, JB; Bhargavi, M; Kuchi, C; Saha, D; Sekhar, MC; Verma, VK	Patron-Prophet Artificial Bee Colony Approach for Solving Numerical Continuous Optimization Problems	BULLETIN OF MATERIALS SCIENCE	https://doi.org/10.3390/axioms11100523
47	Pal, R	A Bilayer SnO2/MoS2-Coated Evanescent Wave Fiber Optic Sensor for Acetone Detection-An Experimental Study	FERROELECTRICS	10.1080/00150193.2022.2130789
48	Hussain, I; Lamiel, C; Sahoo, S; Javed, MS; Ahmad, M; Chen, X; Gu, S; Qin, N; Assiri, MA; Zhang, KL	Artificial Bee Colony Algorithm with Nelder-Mead Method to Solve Nurse Scheduling Problem	NANO-MICRO LETTERS	10.1007/s40820-022-00944-z
49	Kumar, B; Roy, D; Lakshmi, V	An Intelligent Fault Detection and Classification Scheme for Distribution Lines Using Machine Learning	JOURNAL OF MOUNTAIN SCIENCE	10.1007/s11629-020-6602-5
50	Maity, CK; De, SBN; Acharya, S; Siddiki, SH; Sahoo, S; Verma, K; Thakur, VK; Nayak, GC	Artificial intelligence technology in electronic communication engineering for medical applications	JOURNAL OF ENERGY STORAGE	10.1016/j.est.2022.105928
51	Paul, S; Udaysankar, D; Naidu, Y; Reddy, Y	INVESTIGATIONS ON FUNCTIONAL PROPERTIES OF Al _{0.8} EuyLa _{0.2-y} TiO ₃ (y=0.01-0.04) NANOPARTICLES SYNTHESIZED BY HYDROTHERMAL METHOD	REMOTE SENSING LETTERS	10.1080/2150704X.2022.2121186
52	Shankar, R; Beuria, MK; Kulkarni, GR; Zamani, A; Krishna, P; Krishnan, VG	Secure Token-Key Implications in an Enterprise Multi-Tenancy Environment Using BGV-EHC Hybrid Homomorphic Encryption	JOURNAL OF INFORMATION SCIENCE AND ENGINEERING	10.6688/JISE.202211_38(6).0013

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53	Hussain, I; Lamiel, C; Sahoo, S; Ahmad, M; Chen, X; Javed, MS; Qin, N; Gu, S; Li, YX; Nawaz, T; Ansari, MZ; Zhang, KL	Solution-Processed Cu:SnO ₂ as an Efficient Electron Transport Layer for Fabrication of Low-Temperature Planar Perovskite Solar Cell Under Ambient Conditions	MATERIALS TODAY PHYSICS	10.1016/j.mtphys.2022.100844
54	Sharma, P; Tiwari, RN; Singh, P; Kumar, P; Kanaujia, BK	Optical modelling of a GaAs/GaSb core-shell cone-topped octagonal-faced nanopillar array with periodic trapezoidal textured cut for high photon trapping efficiency	SENSORS	10.3390/s22207813
55	Thirugnanasambandam, K; Ramalingam, R; Mohan, D; Rashid, M; Juneja, K; Alshamrani, SS	Laser processing of graphene and related materials for energy storage: State of the art and future prospects	AXIOMS	10.3390/axioms11100523
56	Tripathi, SK; Joshi, AM	Generalizations of Fuzzy q-Ideals of BCI-Algebras	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S021812662220002X
57	Bojjagani, S; Reddy, YCAP; Anuradha, T; Rao, PVV; Reddy, BR; Khan, MK	A Secure Energy-Aware Game Theory (SEGaT) Mechanism for Coordination in WSANs	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	10.1109/TITS.2022.3207593
58	Zhang, Y; Kaur, A; Jagota, V; Neware, R	A review on TIG welding technology variants and its effect on weld geometry	JOURNAL OF INTELLIGENT SYSTEMS	10.1515/jisys-2021-0264
59	Babu, RL; Gurumoorthy, S; Parameshachari, BD; Nelson, SC; Hua, QZ	A numerical study on the performance characteristics of low head Francis turbine with different turbulence models	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S0218126622502322
60	Sivaiah, A; Ramanujam, B; Babu, KR	Thermal radiation and diffusion effects in MHD Williamson and Casson fluid flows past a slendering stretching surface	CARBOHYDRATE RESEARCH	10.1016/j.carres.2022.108653
61	Eswaraiah, S; Seo, KH; Kumar, KN; Ratnam, MV; Koval, AV; Jeong, JY; Mengist, CK; Lee, YS; Greer, K; Hwang, JY; Lee, W; Pramitha, M; Chalapathi, GV; Reddy, MV; Kim, YH	Growth and properties of nanocrystalline TiN-amorphous Si ₃ N ₄ composite thin films deposited on IN718 and phynox alloy substrates	ATMOSPHERE	10.3390/atmos13091475
62	Peng, YH; Wang, Y; Raffik, R; Jagota, V; Bhatia, KK; Kumar, R; Kannan, N	A Deep Learning Based Convolution Neural Network-DCNN Approach to Detect Brain Tumor	ELECTRICA	10.5152/electrica.2022.22051

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63	Prasanth, A; Getachew, S; Shewa, T; Velumani, M; Meher, SR; Alex, ZC	Investigation of the fifth generation non-orthogonal multiple access technique for defense applications using deep learning	BIOSENSORS-BASEL	10.3390/bios12090734
64	Ramalingam, R; Muniyan, R; Dumka, A; Singh, DP; Mohamed, HG; Singh, R; Anand, D; Noya, ID	Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques (May, 10.1007/s10973-021-10872-6, 2021)	Journal of Thermal Analysis and Calorimetry	https://doi.org/10.1007/s10973-021-10872-6
65	Ramalingam, R; Karunanidiy, D; Alshamrani, SS; Rashid, M; Mathumohan, S; Dumka, A	A computational framework for ranking prediction of cloud services under fuzzy environment	MATHEMATICS	10.3390/math10183315
66	Krishnaiah, K.V., Venkatalakshamma, P., Upendra Kumar, K., Haritha, P., Lavin, V., Martin, I.R., Ravi, N., Satish Kumar Reddy, H., Venkatramu, V., Nallabala, N.K.R., Yuvaraj, C.	Structure, morphology, photonconversion and energy transfer characteristics of Er ³⁺ /Yb ³⁺ :BaYF ₅ nanocrystals synthesized by hydrothermal method for photovoltaics	Ceramics International	10.1016/j.ceramint.2023.05.225
67	Nathiya, D., Wilson, J., Gurunathan, K., Rani, G.M., Raju, C.V., Chaudhary, V.	Ultrasensitive Detection of Bovine Serum Albumin on DNA Modified Protein Microcapsules-based Electrodes	Journal of the Electrochemical Society	10.1149/1945-7111/acd357
68	Thenrajan, T., Anandhakumar, M., Gokana, M.R., Chaudhary, V., Rajaram, R., Venkateswara Raju, C., Wilson, J.	Guar Gum Supported ZIF-8 as an Effective Catalyst for Electrochemical Sensing of Gallic Acid in Liquid Food Samples	Journal of the Electrochemical Society	10.1149/1945-7111/acc556
69	Rao, P.V.V., Anand, M., Daniel, J.A., Sivaparthipan, C.B., Kirubakaran, S.S., Gnanasigamani, L.J., Punitha, P.	Millimeter assisted wave technologies in 6G assisted wireless communication systems: a new paradigm for 6G collaborative learning	Wireless Networks	10.1007/s11276-023-03324-6
70	Kumar, P.T.V., Naidu, K.V., Reddy, P.V., Hoque, S.	Performance Analysis of Pool-Based Spectrum Handoff in Cognitive Radio Networks	Wireless Personal Communications	10.1007/s11277-023-10441-0
71	Sharan, N., Ghorai, S.K., Kumar, A.	Alleviating LED Nonlinearity in a HACO System Using a Blend of Precoder and a μ -Law Compander	Wireless Personal Communications	10.1007/s11277-023-10474-5

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72	Nallabala, N.K.R., C, Y., Vohra, A., Dhamodaran, A., Kaleemulla, S., Jaswanth, A., Chandra Mohan, K., Sambasivam, S., Netheti, V.S.B., Reddy, V.R.M., Kim, W.K.	Evaluation of Photosensing Parameters of Au/polystyrene/n-Si Heterojunction Based Self-Powered Organic Broadband Photodetectors	Silicon	10.1007/s12633-023-02458-8
73	Kumar, A., Lakshmipathi, A.R., Nagabhooshanam, N., Sahu, S.K., Patil, P.P., Satyanarayana, V., Praveen, N.	Effect of Adding Rice Husk Ash Functional Silicon Additives on Flammability Wear and Thermal Stability of Ramie-Epoxy Composite	Silicon	10.1007/s12633-023-02463-x
74	Ramalingam, R., Saleena, B., Basheer, S., Balasubramanian, P., Rashid, M., Jayaraman, G.	EECHS-ARO: Energy-efficient cluster head selection mechanism for livestock industry using artificial rabbits optimization and wireless sensor networks	Electronic Research Archive	10.3934/era.2023158
75	Pavithra, D., Nidhya, R., Shanthi, S., Priya, P.	A secured and optimized deep recurrent neural network (DRNN) scheme for remote health monitoring system with edge computing	Automatika	10.1080/00051144.2023.2195218
76	Pratheesh, K., Narayanasamy, P., Prithivirajan, R., Ramkumar, T., Balasundar, P., Indran, S., Sanjay, M.R., Siengchin, S.	Cenosphere filled epoxy composites: structural, mechanical, and dynamic mechanical studies	Biomass Conversion and Biorefinery	10.1007/s13399-023-04154-4
77	Sivakumar, E.R., Krishna, R., Senthilkumar, P., Krishnakumar, T.S., Colak, I.	Comprehensive study of diesel engine characteristics of valves coated by titanium nitride (TiN)	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	10.1177/09544089231157950
78	Ponnappalli, B., Lakshmikhandan, K., Palanisamy, K., Sithambaram, M.	A hybrid technique for grid-connected solar-wind hybrid system with electric vehicles	Energy and Environment	10.1177/0958305X231153933
79	Suganya, G., Kumar, S.M., Nagaraj, M., Velumani, A.	Mechanical, Dielectric and Thermal Stability of Silicon Oxynitride Nanoparticle Dispersed Tamarind Fiber-Reinforced Epoxy Bio-composite	Silicon	10.1007/s12633-023-02320-x
80	Singh, L.P., Sharma, G.	Dielectric spectroscopy investigation of relaxation processes in the low-frequency regime and validity of the Stokes–Einstein–Nernst/Stokes–Einstein–Debye relation in poly(propylene glycol)	Macromolecular Research	10.1007/s13233-022-00104-7
81	Saif, M., Khan, F., Khan, S.A.	Error estimation by Schurer type (p, q)-Lorentz operator on a compact disk	Filomat	10.2298/FIL2301303S

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82	Chakraborty, G., Wang, W., Chakraborty, B., Tai, S.-K., Lo, Y.-S.	Grading of HCC Biopsy Images Using Nucleus and Texture Features	IEEE Journal of Biomedical and Health Informatics	10.1109/JBHI.2022.3215226
83	Banerjee, A., Maity, S.P.	Jamming in Eavesdropping on Throughput Maximization in Green Cognitive Radio Networks	IEEE Transactions on Mobile Computing	10.1109/TMC.2021.3068797
84	Ketham, R., Althuwayb, A.A., Kumar, A.	Low-profile Magneto-electric Dipole Antenna	IETE Journal of Research	10.1080/03772063.2021.1873200
85	Mengist, C.K., Seo, K.-H., Kim, Y.H., Eswaraiyah, S., Ssessanga, N., Kwak, Y.-S.	3-D Regional Imaging of Ionosphere Over Africa Through Assimilating Satellite and Ground-Based Data	Journal of Geophysical Research: Space Physics	10.1029/2022JA030859
86	Sethuraman, S.K., Malaiyappan, N., Ramalingam, R., Basheer, S., Rashid, M., Ahmad, N.	Predicting Alzheimer's Disease Using Deep Neuro-Functional Networks with Resting-State fMRI	Electronics (Switzerland)	10.3390/electronics12041031
87	Mandal, A.K., Sen, R., Chakraborty, B.	Quantum-Inspired Owl Search Algorithm with Ensembles of Filter Methods for Gene Subset Selection from Microarray Data	International Journal of Pattern Recognition and Artificial Intelligence	10.1142/S0218001423510011
88	Singh, L.P.	Primary and secondary relaxation processes in poly(propylene glycol) monobutyl ether: a broadband dielectric spectroscopy investigation	Polymer Journal	10.1038/s41428-022-00728-7
89	Mahapatro, S.R., Subudhi, B.	Disturbance rejection-based robust decentralized controller design for a multivariable system	Transactions of the Institute of Measurement and Control	10.1177/01423312221114348
90	Hemanandh, J., Devarajan, Y., Mishra, R., Meenakshisundaram, N.	Experimental investigation on slaughter, fish waste and poultry excrete oil as fuel blends in diesel engine	Biomass Conversion and Biorefinery	10.1007/s13399-021-01293-4
91	Sekaran, R., Al-Turjman, F., Patan, R., Ramasamy, V.	Tripartite Transmitting Methodology for Intermittently Connected Mobile Network (ICMN)	ACM Transactions on Internet Technology	10.1145/3433545
92	Hussain, I., Sahoo, S., Hussain, T., Ahmad, M., Javed, M.S., Lamiel, C., Gu, S., Kaewmaraya, T., Sayed, M.S., Zhang, K.	Theoretical and Experimental Investigation of In Situ Grown MOF-Derived Oriented Zr-Mn-oxide and Solution-Free CuO as Hybrid Electrode for Supercapacitors	Advanced Functional Materials	10.1002/adfm.202210002
93	Thyda, L., Dasi, G., Abdul Azeez, M.S., Naresh, K., Suneetha, S., Amaladass, P., Vijayakumar, S., Hussain, I., Jayavel, R., Thangaraju, K.	Solution processed highly transparent nitrogen-doped carbon quantum dots/ZnO hybrid thin films: A study on structural and enhanced UV emission	Applied Surface Science	10.1016/j.apsusc.2022.155664

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94	Muhiuddin, G., Mahapatra, T., Pal, M., Alshahrani, O., Mahboob, A.	Integrity on m-Polar Fuzzy Graphs and Its Application	Mathematics	10.3390/math11061398
95	Rajagopal, M., Buradagunta, S., Almeshari, M., Alzamil, Y., Ramalingam, R., Ravi, V.	An Efficient Framework to Detect Intracranial Hemorrhage Using Hybrid Deep Neural Networks	Brain Sciences	10.3390/brainsci13030400
96	Sekhar, M.C., Kumar, N.S., Asif, M., Vattikuti, S.V.P., Shim, J.	Enhancing Electrochemical Performance with g-C ₃ N ₄ /CeO ₂ Binary Electrode Material	Molecules	10.3390/molecules28062489
97	Adarsh, A., Pathak, S., Chauhan, D.S., Kumar, B.	Low-latency and High-Reliability FBMC Modulation scheme using Optimized Filter design for enabling NextG Real-time Smart Healthcare Applications	Journal of Supercomputing	10.1007/s11227-022-04799-4
98	Nallabala, N.K.R., Kushvaha, S.S., Kumari, A., Singh, V.R., Verma, V.K., Kaleemulla, S., Singh, L.P., Jilani, S.A.K., Vattikuti, S.V.P., Bakash, K.R., Sambasivam, S., Shim, J.	Self-powered and improved photoresponsive broadband photodetecting sensors using Au/NiFe ₂ O ₄ /p-Si heterojunction architecture	Materials Science in Semiconductor Processing	10.1016/j.mssp.2022.107266
99	Borah, J., Sheikh, T.A., Bora, J.	Dynamic cell sleeping mechanism: An energy-efficient approach for Mobile 5G HetCN	International Journal of Communication Systems	10.1002/dac.5422
100	Lee, J., Kwak, Y.-S., Eswaraiyah, S., Kam, H., Kim, Y.H., Lee, C., Kim, J.-H.	Observational Evidence of Nonlinear Wave-Wave Interaction Over Antarctic MLT Region	Journal of Geophysical Research: Space Physics	10.1029/2022JA030738
101	Rajeswari, M., Ramalingam, R., Basheer, S., Babu, K.S., Rashid, M., Saranya, R.	Multi-Objective ABC-NM Algorithm for Multi-Dimensional Combinatorial Optimization Problem	Axioms	10.3390/axioms12040395
102	Jena, R., Chandrakanta, K., Singh, A.K.	Investigation of dielectric, impedance, and magnetodielectric behavior in Bi ₅ Ti ₃ FeO ₁₅ -Bi ₂ Fe ₄ O ₉ composites prepared by sol-gel modified method	International Journal of Materials Research	10.1515/ijmr-2022-0035
103	Chandrakanta, K., Jena, R., Singh, A.K.	Temperature and magnetic field controlled dielectric relaxation and magnetodielectric response in KBiFe _{1.9} Co _{0.1} O ₅ polycrystalline	International Journal of Materials Research	10.1515/ijmr-2022-0076
104	Khan, N., Saif, M., Usman, T.	Evaluation of Norm of (p, q)-Bernstein Operators	Mathematica Slovaca	10.1515/ms-2023-0034
105	Sahoo, B., Mehar, K., Sahoo, B., Sharma, N., Panda, S.K.	Thermal post-buckling analysis of graded sandwich curved structures under variable thermal loadings	Engineering with Computers	10.1007/s00366-021-01514-4

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106	Tiwari, R.N., Kaim, V., Singh, P., Khan, T., Kanaujia, B.K.	Semi-Flexible Diversified Circularly Polarized Millimeter-Wave MIMO Antenna for Wearable Biotechnologies	IEEE Transactions on Antennas and Propagation	10.1109/TAP.2023.3255507
107	Praveena, N., Juneja, K., Rashid, M., Almagrabi, A.O., Sekaran, K., Ramalingam, R., Usman, M.	Hybrid gated recurrent unit and convolutional neural network-based deep learning mechanism for efficient shilling attack detection in social networks	Computers and Electrical Engineering	10.1016/j.compeleceng.2023.108673
108	Aurtherson, P.B., Nalla, B.T., Srinivasan, K., Mehar, K., Devarajan, Y.	Biofuel production from novel Prunus domestica kernel oil: process optimization technique	Biomass Conversion and Biorefinery	10.1007/s13399-021-01551-5
109	Pattanayak, S., Loha, C., Kumar Singh, R., Saha, D.	Experimental investigation of thermal performance, kinetic triplets, and synergistic effect for bamboo-waste plastic (PP & PE) blends using thermogravimetric analyser in N ₂ atmosphere	Sustainable Energy Technologies and Assessments	10.1016/j.seta.2023.103266
110	Roy, S., Tripathy, N., Pradhan, D., Sahu, P.K., Kar, J.P.	Investigation of Switching Behavior of ZnO/TiO ₂ Multilayer Configurations	Journal of Electronic Materials	10.1007/s11664-023-10383-0
111	Bommireddy, P.R., Karnam, J.B., M, C.S., Park, S.-H.	Ni-Co PBA-decorated CNTs as battery-type cathode materials for potassium-ion hybrid capacitors	Journal of Energy Storage	10.1016/j.est.2023.106870
112	Saravanan, D., Rajakumar, R., Sreedevi, M., Dinesh, K., Sudha, S.V., Anguraj, D.K., Mubarakali, A.	Multi-objective swarm-based model for deploying virtual machines on cloud physical servers	Distributed and Parallel Databases	10.1007/s10619-021-07341-2
113	Sivalingam, V., Zhou, Q., Selvam, B., Sun, J., Pandiyan, K., Gupta, M.K., Korkmaz, M.E.	A mathematical approach of evaluating sustainability indicators in milling of aluminium hybrid composite by different eco-friendly cooling strategies	Sustainable Materials and Technologies	10.1016/j.susmat.2023.e00605
114	Pattanayak, S., Loha, C.	Investigation of kinetic triplets and thermodynamic parameters of different species of bamboo-biomass from North-East India	International Journal of Chemical Kinetics	10.1002/kin.21639
115	Rath, A., Mohapatra, S.R., Singh, A.K., Kaushik, S.D., Dhara, S., Chandrakant, K., Jena, R., Mohanty, H.S., Tripathy, S.N.	Substantial enhancement in magnetic and magnetodielectric properties of 0.7(Bi ₂ Fe ₄ O ₉)-0.3(La _{0.67} Sr _{0.33} MnO ₃) composite	Journal of Magnetism and Magnetic Materials	10.1016/j.jmmm.2023.170813

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116	Narasimha Murthy, K.V., Amaranatha Reddy, T., Vijaya Kumar, K.	Retraction Note: A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901–2017(Pure Appl. Geophys., (2020), 177, (5551–5565), 10.1007/s00024-019-02236-x)	Pure and Applied Geophysics	10.1007/s00024-023-03263-5
117	Krishna, R., Colak, I.	Advances in Biomedical Applications of Raman Microscopy and Data Processing: A Mini Review	Analytical Letters	10.1080/00032719.2022.209439 1
118	Nagappan, S., Duraivel, M., Elayappan, V., Muthuchamy, N., Mohan, B., Dhakshinamoorthy, A., Prabakar, K., Lee, J.-M., Park, K.H.	Metal–Organic Frameworks-Based Cathode Materials for Energy Storage Applications: A Review	Energy Technology	10.1002/ente.202201200
119	Savari, G.F., Sathik, M.J., Raman, L.A., El-Shahat, A., Hasanien, H.M., Almakhles, D., Abdel Aleem, S.H.E., Omar, A.I.	Assessment of charging technologies, infrastructure and charging station recommendation schemes of electric vehicles: A review	Ain Shams Engineering Journal	10.1016/j.asej.2022.101938

List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2021-22

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1	Karunanidhy D., Ramalingam R., Dumka A., Singh R., Alsukayti I., Anand D., Hamam H., Ibrahim M.	An intelligent optimized route-discovery model for iot-based vanets	Processes	10.3390/pr9122171
2	Phadatare H.P., Pratiher B.	Nonlinear dynamics and chaos of a multi-disk rotating shaft undergoing large deflection mounted on a moving support	International Journal of Non-Linear Mechanics	10.1016/j.ijnonlinmec.2021.103819
3	Babukarthik R.G., Dhasarathan C., Kumar M., Shankar A., Thakur S., Cheng X.	A novel approach for multi-constraints knapsack problem using cluster particle swarm optimization	Computers and Electrical Engineering	10.1016/j.compeleceng.2021.107399
4	Sharanya V., Padmavati B.S., Raja Sekhar G.P.	Transient Stokes flow past a spherical droplet with a stagnant cap due to contaminated surfactant layer	Theoretical and Computational Fluid Dynamics	10.1007/s00162-021-00592-w
5	Abdul Ghaffar A.R., Nadeem M.R., Hasan M.G.	Cost-benefit analysis of shale development in India: A best-worst method based MCDM approach	Journal of King Saud University - Science	10.1016/j.jksus.2021.101591
6	Muhiuddin G., Al-Kadi D., Mahboob A., Aljohani A.	Generalized Fuzzy Ideals of BCI-Algebras Based on Interval Valued m-Polar Fuzzy Structures	International Journal of Computational Intelligence Systems	10.1007/s44196-021-00006-z
7	Mehar K., Mishra P.K., Panda S.K.	Thermal Post-Buckling Strength Prediction and Improvement of Shape Memory Alloy Bonded Carbon Nanotube-Reinforced Shallow Shell Panel: A Nonlinear Finite Element Micromechanical Approach	Journal of Pressure Vessel Technology, Transactions of the ASME	10.1115/1.4050934
8	Rajput S.S., Gangopadhyay S., Cavaleiro A., AL-Rjoub A., Kumar C.S., Fernandes F.	Influence of Ag additions on the structure, mechanical properties and oxidation behaviour of CrAlNAg coatings deposited by sputtering	Surface and Coatings Technology	10.1016/j.surfcoat.2021.127767
9	Zade N.P., Bhosale A., Dhir P.K., Sarkar P., Davis R.	Variability of Mechanical Properties of Cellular Lightweight Concrete Infill and Its Effect on Seismic Safety	Natural Hazards Review	10.1061/(ASCE)NH.1527-6996.0000501
10	Ahmad N., Hasan M.G., Barbhuiya R.K.	Identification and prioritization of strategies to tackle COVID-19 outbreak: A group-BWM based MCDM approach	Applied Soft Computing	10.1016/j.asoc.2021.107642
11	Ustun T.S., Farooq S.M., Hussain S.M.S.	Initialization Vector for application of IEC 61850-90-5 security features on R-GOOSE and R-SV messages	International Journal of Electrical Power and Energy Systems	10.1016/j.ijepes.2021.107189
12	De S., Acharya S., Sahoo S., Nayak G.C.	Current trends in MXene research: Properties and applications	Materials Chemistry Frontiers	10.1039/d1qm00556a

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13	Mishra B.P., Barik M.	Free flexural vibration of thin stiffened plates using NURBS-Augmented finite element method	Structures	10.1016/j.istruc.2021.05.018
14	Madhavi K., Prasad V.R., Gaffar S.A.	Darcy flow of polymer from an inclined plane with convective heat transfer analysis: a numerical study	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-020-09942-y
15	Dawn R., Zzaman M., Bharadwaj R.R., Kiran C., Shahid R., Verma V.K., Sahoo S.K., Amemiya K., Singh V.R.	Direct evidence to control the magnetization in Fe ₃ O ₄ thin films by N ₂ ion implantation: a soft X-ray magnetic circular dichroism study	Journal of Sol-Gel Science and Technology	10.1007/s10971-021-05606-x
16	Ramkumar K., Ananthi N., Brabin D.R.D., Goswami P., Baskar M., Bhatia K.K., Kumar H.	Efficient routing mechanism for neighbour selection using fuzzy logic in wireless sensor network	Computers and Electrical Engineering	10.1016/j.compeleceng.2021.107365
17	Sheikh T.A., Bora J., Hussain M.A.	Sum-Rate Improvement in Massive MIMO System with User Grouping and Selection, and Antenna Scheduling Scheme	Wireless Personal Communications	10.1007/s11277-021-08503-2
18	Rajakumar R., Sekaran K., Hsu C.-H., Kadry S.	Accelerated grey wolf optimization for global optimization problems	Technological Forecasting and Social Change	10.1016/j.techfore.2021.120824
19	Kumar R., Sahoo S., Tan W.K., Kawamura G., Matsuda A., Kar K.K.	Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor	Journal of Energy Storage	10.1016/j.est.2021.102724
20	Perumal A., Azhagurajan A., Kumar S.S., Prithvirajan R., Baskaran S., Rajkumar P.R., Kailasanathan C., Venkatesan G.	Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti-6Al-2Sn-4Zr-2Mo Alloy using Modeling Approach	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-021-01953-y
21	Al Kaisy G.M.J., Mutalib M.I.A., Rao T.V.V.L.N., Senatore A.	Tribological performance of low viscosity halogen-free ammonium based protic ionic liquids with carboxylate anions as neat lubricants	Tribology International	10.1016/j.triboint.2021.107058
22	Gupta S.	Design of non-mapping code in spectral and special domain with variable weight and OFDM system	Optical and Quantum Electronics	10.1007/s11082-021-03004-9
23	Kumar B.P., Pillai D.S., Rajasekar N., Chakkarapani M., Ilango G.S.	Identification and Localization of Array Faults with Optimized Placement of Voltage Sensors in a PV System	IEEE Transactions on Industrial Electronics	10.1109/TIE.2020.2998750
24	Rajeswari M., Thirugnanasambandam K., Raghav R.S., Prabu U., Saravanan D., Anguraj D.K.	Flower Pollination Algorithm with Powell's Method for the Minimum Energy Broadcast Problem in Wireless Sensor Network	Wireless Personal Communications	10.1007/s11277-021-08253-1
25	Xiao-Pang, Vivekananda G.N., Khapre S.	Multimedia-based English teaching and practical system	Aggression and Violent Behavior	10.1016/j.avb.2021.101706

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26	Kamal M., Saini G., Abbas A., Prasad V.	Prediction and analysis of the cavitating performance of a Francis turbine under different loads	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	10.1080/15567036.2021.2009941
27	Ahmad P., Jin H., Alroobaea R., Qamar S., Zheng R., Alnajjar F., Aboudi F.	MH UNet: A multi-scale hierarchical based architecture for medical image segmentation	IEEE Access	10.1109/ACCESS.2021.3122543
28	Sahoo B., Mehar K., Sahoo B., Sharma N., Panda S.K.	Thermal post-buckling analysis of graded sandwich curved structures under variable thermal loadings	Engineering with Computers	10.1007/s00366-021-01514-4
29	Karunanidiy, D; Ramalingam, R; Dumka, A; Singh, R; Alsukayti, I; Anand, D; Hamam, H; Ibrahim, M	A New Type of Fuzzy Prime Subset in Ordered Somigroups	PROCESSES	10.3390/pr9122171
30	Mehar, K; Mishra, PK; Panda, SK	Users' In-Game Purchase Intention: The Effects of Flow Experience and Satisfaction	JOURNAL OF PRESSURE VESSEL TECHNOLOGY-TRANSACTIONS OF THE ASME	10.1115/1.4050934
31	Zade, NP; Bhosale, A; Dhir, PK; Sarkar, P; Davis, R	Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy (vol 122, pg 515, 2021)	NATURAL HAZARDS REVIEW	10.1061/(ASCE)NH.1527-6996.0000501
32	Babukarthik, RG; Dhasarathan, C; Kumar, M; Shankar, A; Thakur, S; Cheng, XC	A Survey on Role of Block Chain in Smart Cities	COMPUTERS & ELECTRICAL ENGINEERING	10.1016/j.compeleceng.2021.107399
33	Rajput, SS; Gangopadhyay, S; Cavaleiro, A; AL-Rjoub, A; Kumar, CS; Fernandes, F	Effectiveness of CFS web cleat bolted connections between beam-to-column	SURFACE & COATINGS TECHNOLOGY	10.1016/j.surfcoat.2021.127767
34	Chakraborty, D; Bej, S; Sahoo, S; Chongdar, S; Ghosh, A; Banerjee, P; Bhaumik, A	Onion-Ring-like Carbon and Nitrogen from ZIF-8 on TiO2/Fe2O3 Nanostructure for Overall Electrochemical Water Splitting	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	10.1021/acssuschemeng.1c04877
35	Phadatare, HP; Pratiher, B	Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti-6Al-2Sn-4Zr-2Mo Alloy using Modeling Approach	INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS	10.1016/j.ijnonlinmec.2021.103819
36	Sharanya, V; Padmavati, BS; Sekhar, GPR	DC sputter deposited TiO2 thin film on ITO/glass substrate for perovskite based solar cell application	THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS	10.1007/s00162-021-00592-w
37	Muhiuddin, G; Al-Kadi, D; Mahboob, A; Aljohani, A	Investigation of Cryogenically Treated Physical Vapor Deposition TiAlN/NbN-Coated Carbide Inserts in End Milling of Hard Titanium Alloy	INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS	10.1007/s44196-021-00006-z

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38	Ghaffar, ARA; Nadeem, MR; Hasan, MG	Pure Gamma-ideals in Gamma-semigroups	JOURNAL OF KING SAUD UNIVERSITY SCIENCE	10.1016/j.jksus.2021.101591
39	De, S; Acharya, S; Sahoo, S; Nayak, GC	Parametric optimization of face turning parameters for surface roughness on EN 31 material using RSM and Taguchi method	MATERIALS CHEMISTRY FRONTIERS	10.1039/d1qm00556a
40	Dawn, R; Zzaman, M; Bharadwaj, RR; Kiran, C; Shahid, R; Verma, VK; Sahoo, SK; Amemiya, K; Singh, VR	Flower Pollination Algorithm with Powell's Method for the Minimum Energy Broadcast Problem in Wireless Sensor Network	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	10.1007/s10971-021-05606-x
41	Ramkumar, K; Ananthi, N; Brabin, DRD; Goswami, P; Baskar, M; Bhatia, KK; Kumar, H	Modelling and forecasting for monthly surface air temperature patterns in India, 1951-2016: Structural time series approach	COMPUTERS & ELECTRICAL ENGINEERING	10.1016/j.compeleceng.2021.107365
42	Ahmad, N; Hasan, MG; Barbhuiya, RK	Modelling and simulation of sprinters' health promotion strategy based on sports biomechanics	APPLIED SOFT COMPUTING	10.1016/j.asoc.2021.107642
43	Gupta, S	Structural time-series modelling for seasonal surface air temperature patterns in India 1951-2016	OPTICAL AND QUANTUM ELECTRONICS	10.1007/s11082-021-03004-9
44	Kumar, BP; Pillai, DS; Rajasekar, N; Chakkarapani, M; Ilango, GS	Magneto-electro-elastic analysis of piezoelectric-flexoelectric nanobeams rested on silica aerogel foundation	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	10.1109/TIE.2020.2998750
45	Muhiuddin G., Mahboob A., Abughazalah N.	Generalized fuzzy ideals in ordered semirings	Complex and Intelligent Systems	10.1007/s40747-022-00758-x
46	Kale S., Latha N.K.H., Bramhane L.K.	Design and Proposal of Double Pocket Schottky Barrier TFET with Dielectric Modulation for Biosensors Applications	Silicon	10.1007/s12633-022-01840-2
47	Saha S., Das A.N.	Non-symmetric indentation of an elastic half-plane	Mathematics and Mechanics of Solids	10.1177/10812865211073978
48	Ji P., Li X., Jagota V., Sajja G.S.	Study on an Adaptive Harmonic Current Detection Method Based on Neural Network	Electrica	10.54614/electrica.2022.21172
49	Dhiman P., Henge S.K., Ramalingam R., Dumka A., Singh R., Gehlot A., Rashid M., Alshamrani S.S., Alghamdi A.S., Alshehri A.	Secure Token–Key Implications in an Enterprise Multi-Tenancy Environment Using BGV–EHC Hybrid Homomorphic Encryption	Electronics (Switzerland)	10.3390/electronics11131942
50	De S., Acharya S., Maity C.K., Sahoo S., Nayak G.C.	MXene (Ti ₃ C ₂ T _x)/Amine-Functionalized Graphene-Supported Self-Assembled Co ₉ S ₈ Nanoflower for Ultrastable Hybrid Supercapacitor	Industrial and Engineering Chemistry Research	10.1021/acs.iecr.2c00810

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51	Muhiuddin G., Al-Tahan M., Mahboob A., Hoskova-Mayerova S., Al-Kaseasbeh S.	Linear Diophantine Fuzzy Set Theory Applied to BCK/BCI-Algebras	Mathematics	10.3390/math10122138
52	Dua S., Kumar S.S., Albagory Y., Ramalingam R., Dumka A., Singh R., Rashid M., Gehlot A., Alshamrani S.S., Alghamdi A.S.	Developing a Speech Recognition System for Recognizing Tonal Speech Signals Using a Convolutional Neural Network	Applied Sciences (Switzerland)	10.3390/app12126223
53	Banerjee P., Roy A.B., Nandi A., Das S., Kundu A., Mukherjee S., Saha H., Hossain S.M.	Light-trapping scheme using silica spheres on ultrathin c-silicon absorber: transition from antireflection coating to whispering gallery resonator	Applied Physics A: Materials Science and Processing	10.1007/s00339-022-05591-0
54	Dawn R., Zzaman M., Faizal F., Kiran C., Kumari A., Shahid R., Panatarani C., Joni I.M., Verma V.K., Sahoo S.K., Amemiya K., Singh V.R.	Origin of Magnetization in Silica-coated Fe ₃ O ₄ Nanoparticles Revealed by Soft X-ray Magnetic Circular Dichroism	Brazilian Journal of Physics	10.1007/s13538-022-01102-x
55	Hussain S.	Resolution-Selective and Resolution-Adaptive 2 to 8-Bit Flash ADC for High-Speed Application-Independent IC (HS-AIIC)	Journal of Circuits, Systems and Computers	10.1142/S0218126622501699
56	Nallabala N.K.R., Reddy V.R.M., Singh V.R., Rahim Bakash K., Kumar S., Saha D., Mahendran V., Kummara V.K., Guntupalli G.K., Vattikuti S.V.P.	Enhanced photoresponse performance in GaN based symmetric type MSM ultraviolet-A and MIS ultraviolet-A to C photodetectors	Sensors and Actuators A: Physical	10.1016/j.sna.2022.113502
57	Kumar S., Kurmi Y.	CNN-based denoising system for the image quality enhancement	Multimedia Tools and Applications	10.1007/s11042-022-12406-0
58	Kumar R., Sahoo S., Joanni E., Singh R.K., Kar K.K.	Microwave as a Tool for Synthesis of Carbon-Based Electrodes for Energy Storage	ACS Applied Materials and Interfaces	10.1021/acsami.1c15934
59	Anandkumar R., K D., Obaid A.J., Malik P., Sharma R., Dumka A., Singh R., Khatak S.	Securing e-Health application of cloud computing using hyperchaotic image encryption framework	Computers and Electrical Engineering	10.1016/j.compeleceng.2022.107860
60	Hussain I., Sahoo S., Sayed M.S., Ahmad M., Sufyan Javed M., Lamiel C., Li Y., Shim J.-J., Ma X., Zhang K.	Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance	Coordination Chemistry Reviews	10.1016/j.ccr.2022.214429
61	Natesamurthi C., Kumaresan V., Christopher S., Raghavan K.S., Senthilkumaar J.S.	Thermal performance enhancement of compound parabolic concentrator solar collector using latent heat thermal energy storage	Environmental Progress and Sustainable Energy	10.1002/ep.13765

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62	Netalkar P.P., Maithreye S.R., Karuna Y.M., Natarajan S., Gadipelly T., Bhat P D., Dasgupta A., Lewis A.	Effect of nano-hydroxyapatite incorporation on fluoride releasing ability, penetration, and adaptation of a pit and fissure sealant	International Journal of Paediatric Dentistry	10.1111/ipd.12890
63	Tiwari R., Deshmukh S.	Handover Count Based MAP Estimation of Velocity With Prior Distribution Approximated via NGSIM Data Set	IEEE Transactions on Intelligent Transportation Systems	10.1109/TITS.2020.3043888
64	Bommireddy P.R., Chandra Sekhar M., Lee Y.-W., Kumar M., Suh Y., Park S.-H.	Binder-free Co–Ni hexacyanoferrate as a battery-type electrode material for hybrid supercapacitors	Ceramics International	10.1016/j.ceramint.2022.01.055
65	Pantula M., Kuppusamy K.S.	A Machine Learning-Based Model to Evaluate Readability and Assess Grade Level for the Web Pages	Computer Journal	10.1093/comjnl/bxaa113
66	Thurai Raaj V.B., Gorantla S.R., Karunanidy D., Dumka A., Singh R., Rashid M., Albagory Y., Alshamrani S.S.	Dual Battery Storage Technique for Remote, Location-Based Solar PV System and Standalone Applications	Energies	10.3390/en15082748
67	Maji A., Deshamukhya T., Choubey G., Choubey A.	Correction to: Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques (Journal of Thermal Analysis and Calorimetry, (2022), 147, 8, (5133-5150), 10.1007/s10973-021-10872-6)	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-021-10937-6
68	Maji A., Deshamukhya T., Choubey G., Choubey A.	Performance evaluation of perforated pin fin heat sink using particle swarm optimization and MCDM techniques	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-021-10872-6
69	Kumar R., Patbhaje U., Kumar A.	An efficient technique for image compression and quality retrieval using matrix completion	Journal of King Saud University - Computer and Information Sciences	10.1016/j.jksuci.2019.08.002
70	Gupta S.K., Goel A.	Design and analysis of three-dimensional m-sequence bipolar OCDMA spectral amplitude code	Optical and Quantum Electronics	10.1007/s11082-022-03529-7
71	Karunanidy D., Ramalingam S., Dumka A., Singh R., Rashid M., Gehlot A., Alshamrani S.S., Alghamdi A.S.	JMA: Nature-Inspired Java Macaque Algorithm for Optimization Problem	Mathematics	10.3390/math10050688
72	Tripathi D., Shukla A.K., Reddy B.R., Bopche G.S., Chandramohan D.	Credit Scoring Models Using Ensemble Learning and Classification Approaches: A Comprehensive Survey	Wireless Personal Communications	10.1007/s11277-021-09158-9

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73	Mahapatro S.R., Subudhi B.	A Robust Stability Region-Based Decentralized PI Controller for a Multivariable Liquid Level System	IEEE Systems Journal	10.1109/JSYST.2021.3079293
74	Raghavendra H., Suryanarayana Raju P., Hemachandra Reddy K.	Effect of Geometric and Operational Parameters on the Performance of a Beta-Type Stirling Engine: A Numerical Study	Iranian Journal of Science and Technology - Transactions of Mechanical Engineering	10.1007/s40997-020-00406-0
75	Kumari A., Kumar A., Dawn R., Franklin J.B., Vinjamuri R., Sahoo S.K., Goutam U.K., Verma V.K., Meena R., Kandasami A., Mahapatra S., Kumar K., Kumar A., Singh V.R.	Valence band structure of Cr doped VO ₂ thin films: A resonant photoelectron spectroscopy study	Journal of Alloys and Compounds	10.1016/j.jallcom.2021.162620
76	Jena S., Zzaman M., Verma V.K., Ishigami K., Shibata G., Ishikawa T., Li G.F., Yamamoto M., Shahid R., Koide T., Fujimori A., Singh V.R.	Thickness-dependent electronic and magnetic states of Mn and Co atoms at Mn-rich Co ₂ Mn _{1.20} Ge _{0.38} /MgO interfaces via soft x-ray magnetic circular dichroism	Physica B: Condensed Matter	10.1016/j.physb.2021.413619
77	Reddy Nallabala N.K., Vattikuti S.V.P., Verma V.K., Singh V.R., Alhammedi S., Kummara V.K., Manjunath V., Dhanalakshmi M., Minnam Reddy V.R.	Highly sensitive and cost-effective metal-semiconductor-metal asymmetric type Schottky metallization based ultraviolet photodetecting sensors fabricated on n-type GaN	Materials Science in Semiconductor Processing	10.1016/j.mssp.2021.106297
78	Hasan M.G., Ashraf Z., Khan M.F.	Multi-choice best-worst multi-criteria decision-making method and its applications	International Journal of Intelligent Systems	10.1002/int.22663
79	Kale S., Chandu M.S.	Dual Metal Gate Dielectric Engineered Dopant Segregated Schottky Barrier MOSFET With Reduction in Ambipolar Current	Silicon	10.1007/s12633-020-00921-4
80	Al-Amin M., Abdul-Rani A.M., Rao T.V.V.L.N., Danish M., Rubaiee S., Mahfouz A.B., Parameswari R.P., Wani M.F.	Investigation of machining and modified surface features of 316L steel through novel hybrid of HA/CNT added-EDM process	Materials Chemistry and Physics	10.1016/j.matchemphys.2021.125320
81	Paul A., Deshamukhya T., Pal J.	Investigation and utilization of Indian peat in the energy industry with optimal site-selection using Analytic Hierarchy Process: A case study in North-Eastern India	Energy	10.1016/j.energy.2021.122169
82	Ramirez-Asis E., Bhanot A., Jagota V., Chandra B., Hossain M.S., Pant K., Almashaqbeh H.A.	Smart Logistic System for Enhancing the Farmer-Customer Corridor in Smart Agriculture Sector Using Artificial Intelligence	Journal of Food Quality	10.1155/2022/7486974

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83	Rosaline I., Kumar A., Upadhyay P., Murshed A.H.	Four Element MIMO Antenna Systems with Decoupling Lines for High-Speed 5G Wireless Data Communication	International Journal of Antennas and Propagation	10.1155/2022/9078929
84	Ding N., Prabhakar P., Khosla A., Jagota V., Ramirez-Asis E., Singh B.K.	Application of Fuzzy Immune Algorithm and Soft Computing in the Design of 2-DOF PID Controller	Discrete Dynamics in Nature and Society	10.1155/2022/5608054
85	Singh A., Vaidya G., Jagota V., Darko D.A., Agarwal R.K., Debnath S., Potrich E.	Recent Advancement in Postharvest Loss Mitigation and Quality Management of Fruits and Vegetables Using Machine Learning Frameworks	Journal of Food Quality	10.1155/2022/6447282
86	Chinnasamy S., Naveen J., Alphonse P.J.A., Dhasarathan C., Sambasivam G.	Energy-Aware Multilevel Clustering Scheme for Underwater Wireless Sensor Networks	IEEE Access	10.1109/ACCESS.2022.3177722
87	Muhiuddin G., Al-Kadi D., Mahboob A., Assiry A., Alsubhi A.	Generalizations of Fuzzy q-Ideals of BCI -Algebras	Journal of Mathematics	10.1155/2022/2388199
88	Muhiuddin G., Alanazi A.M., Mahboob A., Alkhaldi A.H., Alatwai W.	A Novel Study of Graphs Based on m-Polar Cubic Structures	Journal of Function Spaces	10.1155/2022/2643575
89	Malik A., Vaidya G., Jagota V., Eswaran S., Sirohi A., Batra I., Rakhra M., Asenso E.	Design and Evaluation of a Hybrid Technique for Detecting Sunflower Leaf Disease Using Deep Learning Approach	Journal of Food Quality	10.1155/2022/9211700
90	Shankar A., Dayalan R., Chakraborty C., Dhasarathan C., Kumar M.	A modified social spider algorithm for an efficient data dissemination in VANET	Environment, Development and Sustainability	10.1007/s10668-021-01994-w
91	Shankernath V., Naidu K.L., Krishna M.G., Padmanabhan K.A.	Growth and properties of nanocrystalline TiN—amorphous Si ₃ N ₄ composite thin films deposited on IN718 and phynox alloy substrates	Applied Physics A: Materials Science and Processing	10.1007/s00339-021-05186-1
92	Nidhya R., Kumar M., Shankar A., Mala S., Thakur S., Cheng X.	Remodeled chaotic compressive sensing scheme for secure and energy-efficient data forwarding in body-to-body network	Computers and Electrical Engineering	10.1016/j.compeleceng.2021.107633
93	Karthik C., Nagamani G., Subramaniyam R., Dafik	Robust stabilization of T-S fuzzy systems via improved integral inequality	Soft Computing	10.1007/s00500-021-06544-0
94	Sivaiah P., Singh M., Chengal Reddy V., Meghashyam P.	Processing of 17-4 PH steel in turning operation with hybrid textured tools	Materials and Manufacturing Processes	10.1080/10426914.2021.2001503
95	Talukdar B., Kumar D., Hoque S., Arif W.	Estimation based cyclostationary detection for energy harvesting cooperative cognitive radio network	Telecommunication Systems	10.1007/s11235-021-00846-2
96	Sivaiah P., Singh M.M., Chengal Reddy V.	Effect of single and hybrid pattern textured tools on turning process performance	Materials and Manufacturing Processes	10.1080/10426914.2021.2001511

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97	Subramanian K., Ramasubramanian S., Selvam B., Rajaram P.	Investigations on effectiveness of transfer layer on specific wear rate and coefficient of friction during dry sliding of hybrid polymer matrix composites	Polymer Composites	10.1002/pc.26371
98	Shwetha G., Chandra S., Chandra Shekar N.V., Kalavathi S.	Existence of spin-polarized Dirac cone in Sc ₂ CrB ₆ : A DFT study	Physica B: Condensed Matter	10.1016/j.physb.2021.413369
99	Sivaiah P., Venkata Ajay kumar G., Lakshmi Narasimhamu K., Siva Balaji N.	Performance improvement of turning operation during processing of AISI 304 with novel textured tools under minimum quantity lubrication using hybrid optimization technique	Materials and Manufacturing Processes	10.1080/10426914.2021.1967977
100	Hussain S.M.S., Farooq S.M., Ustun T.S.	A Security Mechanism for IEEE C37.118.2 PMU Communication	IEEE Transactions on Industrial Electronics	10.1109/TIE.2021.3053897
101	David C., A K., Thangavelu A.	Degradation of distillery effluent by twisted-type Iron electrodes: experimental with ANN approach	International Journal of Environmental Analytical Chemistry	10.1080/03067319.2020.1807532
102	Agarwal N.K., Sadhu P.K., Chakraborty S.	MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis	IETE Journal of Research	10.1080/03772063.2019.1662336
103	Bhattacharya A., Roy B., Chowdhury S.K., Bhattacharjee A.K.	An Isolation Enhanced, Printed, Low-Profile UWB-MIMO Antenna with Unique Dual Band-Notching Features for WLAN and WiMAX	IETE Journal of Research	10.1080/03772063.2019.1612284
104	Mishra M.	LDPC Codes and Digital Forensics—A Perspective Approach	IETE Journal of Research	10.1080/03772063.2019.1604170
105	Ji, PX; Li, XW; Jagota, V; Sajja, GS	Topological Analysis of Epicyclic Gear Trains-Symmetry and Redundancy	ELECTRICA	10.54614/electrica.2022.21172

List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2020-21

S.No.	Authors	Title	Source Title	DOI
1	Ghahremani A.H., Pishgar S., Bahadur J., Druffel T.	Intense Pulse Light Annealing of Perovskite Photovoltaics Using Gradient Flashes	ACS Applied Energy Materials	10.1021/acsaem.0c01520
2	Sivaiah P., Singh M M., Venkatesu S., Yoganjaneyulu G.	Investigation on turning process performance using hybrid-textured tools under dry and conventional cooling environment	Materials and Manufacturing Processes	10.1080/10426914.2020.1813893
3	Pradeep Kumar B., Nitheesh R., Chakkarapani M., Saravana Ilango G., Nagamani C.	Estimation of PV module degradation through extraction of I-V curve at inverter pre-startup condition	IET Renewable Power Generation	10.1049/iet-rpg.2020.0316
4	Pal R., Gupta N., Prakash A., Tripathi R., Rodrigues J.J.P.C.	Deep reinforcement learning based optimal channel selection for cognitive radio vehicular ad-hoc network	IET Communications	10.1049/iet-com.2020.0451
5	Mehar K., Panda S.K., Dewangan H.C.	Multiscale finite element prediction of thermomechanical flexural strength of nanotube-reinforced hybrid smart composite panel bonded with SMA fibre	Structures	10.1016/j.istruc.2020.10.049
6	Munuswamy D.B., Devarajan Y., Babu M.N., Ramalingam S.	Experimental investigation on lowering the environmental hazards and improving the performance patterns of solar flat plate collectors by employing the internal longitudinal fins and nano additives	Environmental Science and Pollution Research	10.1007/s11356-020-10311-3
7	Devarajan Y., Choubey G., Mehar K.	Ignition analysis on neat alcohols and biodiesel blends propelled research compression ignition engine	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	10.1080/15567036.2019.1618998
8	Sivaiah P., Guru Prasad M., Singh M M., Uma B.	Machinability evaluation during machining of AISI 52100 steel with textured tools under Minimum Quantity Lubrication—A comparative study	Materials and Manufacturing Processes	10.1080/10426914.2020.1802034
9	Sahoo B., Sahoo B., Sharma N., Mehar K., Panda S.K.	Numerical buckling temperature prediction of graded sandwich panel using higher order shear deformation theory under variable temperature loading	Smart Structures and Systems	10.12989/sss.2020.26.5.641
10	Sivaiah P., Chakradhar D.	Identifying the effectiveness of manner of cryogenic coolant supply in different cryogenic cooling techniques in turning process—a review	Machining Science and Technology	10.1080/10910344.2020.1815039

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11	Nidhya R., Kumar M., V. Ravi R., Deepak V.	Enhanced Route Selection (ERS) algorithm for IoT enabled smart waste management system	Environmental Technology and Innovation	10.1016/j.eti.2020.101116
12	Li J., Tao H., Shuhong L., Salih S.Q., Zain J.M., Yankun L., Vivekananda G.N., Thanjaivadel M.	Internet of things assisted condition-based support for smart manufacturing industry using learning technique	Computational Intelligence	10.1111/coin.12319
13	Devarajan Y., Munuswamy D., Nagappan B., Choubey G.	Study on the effect on combining long-chain additive with neat bio-diesel fueled engine to examine its ignition characteristics	Fuel	10.1016/j.fuel.2020.118400
14	Latha N.K.H., Kale S.	Dielectric Modulated Schottky Barrier TFET for the Application as Label-Free Biosensor	Silicon	10.1007/s12633-019-00363-7
15	Narasimha Murthy K.V., Amaranatha Reddy T., Vijaya Kumar K.	A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901–2017	Pure and Applied Geophysics	10.1007/s00024-019-02236-x
16	Choubey G., Yuvarajan D., Huang W., Shafee A., Pandey K.M.	Recent research progress on transverse injection technique for scramjet applications-a brief review	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2020.07.098
17	Devaki P., Rao A.S., Sharma R.P., Sreenadh S.	Impact of hematocrit on the flow of casson fluid in contact with jeffery fluid over a narrow pipe	Indian Journal of Pure and Applied Physics	
18	Kumar A., Ram S., Al-Hasan M.	Online spotlight: A planar cavity-backed self-triplexing slot antenna for planar integration	Microwave Journal	
19	Mahapatro S.R., Subudhi B.	A Robust Decentralized PID Controller Based on Complementary Sensitivity Function for a Multivariable System	IEEE Transactions on Circuits and Systems II: Express Briefs	10.1109/TCSII.2019.2943382
20	Sinha S., Nandi D.K., Pawar P.S., Kim S.-H., Heo J.	A review on atomic layer deposited buffer layers for Cu(In,Ga)Se ₂ (CIGS) thin film solar cells: Past, present, and future	Solar Energy	10.1016/j.solener.2020.09.022
21	Akbar M.A., Shameem M., Mahmood S., Alsanad A., Gumaei A.	Prioritization based Taxonomy of Cloud-based Outsource Software Development Challenges: Fuzzy AHP analysis	Applied Soft Computing Journal	10.1016/j.asoc.2020.106557
22	Katariya P.V., Mehar K., Panda S.K.	Nonlinear dynamic responses of layered skew sandwich composite structure and experimental validation	International Journal of Non-Linear Mechanics	10.1016/j.ijnonlinmec.2020.103527

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23	Nallabala N.K.R., Godavarthi S., Kummara V.K., Kesarla M.K., Saha D., Akkera H.S., Guntupalli G.K., Kumar S., Vattikuti S.V.P.	Structural, optical and photoresponse characteristics of metal-insulator-semiconductor (MIS) type Au/Ni/CeO ₂ /GaN Schottky barrier ultraviolet photodetector	Materials Science in Semiconductor Processing	10.1016/j.mssp.2020.105190
24	Devarajan Y., Nagappan B., Mageshwaran G., Sunil Kumar M., Durairaj R.B.	Feasibility study of employing diverse antioxidants as an additive in research diesel engine running with diesel-biodiesel blends	Fuel	10.1016/j.fuel.2020.118161
25	Kumar R., Sahoo S., Joanni E., Singh R.K., Maegawa K., Tan W.K., Kawamura G., Kar K.K., Matsuda A.	Heteroatom doped graphene engineering for energy storage and conversion	Materials Today	10.1016/j.mattod.2020.04.010
26	Kuppusamy P., Venkatraman S., Rishikeshan C.A., Padmanabha Reddy Y.C.A.	Deep learning based energy efficient optimal timetable rescheduling model for intelligent metro transportation systems	Physical Communication	10.1016/j.phycom.2020.101131
27	Akbar M.A., Mahmood S., Huang Z., Khan A.A., Shameem M.	Readiness model for requirements change management in global software development	Journal of Software: Evolution and Process	10.1002/smr.2264
28	Khan A.A., Shameem M.	Multicriteria decision-making taxonomy for DevOps challenging factors using analytical hierarchy process	Journal of Software: Evolution and Process	10.1002/smr.2263
29	Arun I., Yuvaraj C., Jyothibabu P., Sekhar Reddy G.C.	Influence of Silica on Microstructural Modification of Electrical Discharge Composite Coating and its Wear Performance	Silicon	10.1007/s12633-019-00333-z
30	Hoque S., Arif W., Sen D.	Assessment of Spectrum Handoff Performance in Cognitive Radio Cellular Networks	IEEE Wireless Communications Letters	10.1109/LWC.2020.2992066
31	Baral A., Das G., Roy A.B., Kole A., Mukherjee N., Bose S.	Stacked Back Reflector Architecture for Advanced Optical Management in State-of-the-Art Single-Junction μ c-Si:H Solar Cells	IEEE Journal of Photovoltaics	10.1109/JPHOTOV.2020.3008263
32	Priya A.V., Srivastava A.K., Arun V.	Hybrid Optimal Energy Management for Clustering in Wireless Sensor Network	Computers and Electrical Engineering	10.1016/j.compeleceng.2020.106708
33	Sangeetha V., Gopinath D., Prithivirajan R., Girish Chandran V., Manoj Kumar R.	Investigating the mechanical, thermal and melt flow index properties of HNTs – LLDPE nano composites for the applications of rotational moulding	Polymer Testing	10.1016/j.polymertesting.2020.106595

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34	Shameem M., Khan A.A., Gulzarul Hasan M., Akbar M.A.	Analytic hierarchy process based prioritisation and taxonomy of success factors for scaling agile methods in global software development	IET Software	10.1049/iet-sen.2019.0196
35	Penthia T., Panda A.K., Mohanty P.R., Patnaik N.	Superconducting magnetic energy storage system with an improved nonlinear control approach for pulsed power applications	International Transactions on Electrical Energy Systems	10.1002/2050-7038.12464
36	Devarajan Y., Munuswamy D., Nagappan B., Ganesan S.	Detailed study on the effect of different ignition enhancers in the binary blends of diesel/biodiesel as a possible substitute for unaltered compression ignition engine	Petroleum Science	10.1007/s12182-020-00463-9
37	Sivalingam V., Zan Z., Sun J., Selvam B., Gupta M.K., Jamil M., Mia M.	Wear behaviour of whisker-reinforced ceramic tools in the turning of Inconel 718 assisted by an atomized spray of solid lubricants	Tribology International	10.1016/j.triboint.2020.106235
38	Jee A., Hoque S., Arif W.	Performance analysis of secondary users under heterogeneous licensed spectrum environment in cognitive radio ad hoc networks	Annales des Telecommunications/Annals of Telecommunications	10.1007/s12243-020-00761-8
39	Acharya S., Sahoo S., Sonal S., Lee J.H., Mishra B.K., Nayak G.C.	Adsorbed Cr(VI) based activated carbon/polyaniline nanocomposite: A superior electrode material for asymmetric supercapacitor device	Composites Part B: Engineering	10.1016/j.compositesb.2020.107913
40	Bhosale A., Zade N.P., Sarkar P., Davis R.	Mechanical and physical properties of cellular lightweight concrete block masonry	Construction and Building Materials	10.1016/j.conbuildmat.2020.118621
41	Ahmad N., Sethi S., Ahmed M.	Cache-Aware Query-Broadcast to Improve QoS of Routing Protocols in MANETs	Wireless Personal Communications	10.1007/s11277-020-07225-1
42	Kummara V.K., Neelima G., Ravi N., Nanda Kumar Reddy N., Satish Kumar Reddy H., Dwaraka Viswanath C.S., Lenine D., Surekha G., Padma Suvarna R., Yuvaraj C., Venkatramu V.	Near infrared broadband and visible upconversion emissions of erbium ions in oxyfluoride glasses for optical amplifier applications	Optics and Laser Technology	10.1016/j.optlastec.2020.106167
43	Bag A., Subudhi B., Ray P.K.	An Adaptive Variable Leaky Least Mean Square Control Scheme for Grid Integration of a PV System	IEEE Transactions on Sustainable Energy	10.1109/TSTE.2019.2929551

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44	Devarajan Y., Choubey G., Sellappan S., Muniraj S.K., Pillai B.D.P.	Emission study on the effect of ignition improver in diesel fueled engine	Petroleum Science and Technology	10.1080/10916466.2020.1781169
45	Muhiuddin G., Al-Kadi D., Mahboob A.	Hybrid structures applied to ideals in BCI-algebras	Journal of Mathematics	10.1155/2020/2365078
46	Muhiuddin G., Alanazi A.M., Mahboob A., Al-Kadi D.	Generalized Hesitant Fuzzy Ideals in Semigroups	Journal of Mathematics	10.1155/2020/8856287
47	Babukarthik R.G., Ananth Krishna Adiga V., Sambasivam G., Chandramohan D., Amudhavel A.J.	Prediction of covid-19 using genetic deep learning convolutional neural network (GDCNN)	IEEE Access	10.1109/ACCESS.2020.3025164
48	Farooq S.M., Suhail Hussain S.M., Ustun T.S., Iqbal A.	Using ID-Based Authentication and Key Agreement Mechanism for Securing Communication in Advanced Metering Infrastructure	IEEE Access	10.1109/ACCESS.2020.3038813
49	Venkatadri K., Anwar Bég O., Rajarajeswari P., Ramachandra Prasad V., Subbarao A., Hidayathulla Khan B.Md.	Numerical simulation and energy flux vector visualization of radiative-convection heat transfer in a porous triangular enclosure	Journal of Porous Media	10.1615/JPORMEDIA.2020033653
50	Basappa M.G., Manu B.	Enhancement of ametryn biodegradation efficiency using anthraquinone-2,6-disulphonate in anaerobic-aerobic treatment	Environmental Engineering and Management Journal	
51	Sambasiva Rao K., Beatriceveena T.V., Angani C.S., Agarwal L.	Novel time-domain parameters for detection and classification of flaws using pulsed eddy current technique	Journal of Magnetism	10.4283/JMAG.2020.25.3.434
52	Ghahremani, AH; Pishgar, S; Bahadur, J; Druffel, T	Estimation of PV module degradation through extraction of I-V curve at inverter pre-startup condition	ACS APPLIED ENERGY MATERIALS	10.1021/acsaem.0c01520
53	Kumar, BP; Nitheesh, R; Chakkarapani, M; Ilango, GS; Nagamani, C	Ignition study of neat biodiesel in dual fueled research engine	IET RENEWABLE POWER GENERATION	10.1049/iet-rpgm.2020.0316
54	Mehar, K; Panda, SK; Dewangan, HC	A UCM Approach for Forecasting the Seasonal Rainfall Patterns in Coastal Andhra Pradesh, India 1901-2017	STRUCTURES	10.1016/j.istruc.2020.10.049

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55	Naje, AS; Yuvarajan, D; abed Al-Ridah, Z; Sandeep, H; Nagarajan, A	Identifying the effectiveness of manner of cryogenic coolant supply in different cryogenic cooling techniques in turning process-a review	FUEL	10.1016/j.fuel.2020.118673
56	Pal, R; Gupta, N; Prakash, A; Tripathi, R; Rodrigues, JJPC	Design and analysis of Yb doped ZnO (YZO) and P-Si bilayer nano-stacked reflector for optical filter applications	IET COMMUNICATIONS	10.1049/iet-com.2020.0451
57	Saravana, R; Sreenadh, S; Kumar, PR; Babu, VR	RETRACTION: Heat and Mass Transfer of Nanofluid from Horizontal Cylinder to Micropolar Fluid (Retraction of 2015)	JOURNAL OF NAVAL ARCHITECTURE AND MARINE ENGINEERING	10.3329/jname.v17i2.49559
58	Shivakumr, N; Vasu, V; Narasaiah, N	A review on atomic layer deposited buffer layers for Cu(In,Ga)Se-2 (GIGS) thin film solar cells: Past, present, and future	JOURNAL OF THE CHINESE SOCIETY OF MECHANICAL ENGINEERS	
59	Muhiuddin, G; Al-Kadi, D; Mahboob, A	Fuzzy Goal Programming with an Imprecise Intuitionistic Fuzzy Preference Relations	JOURNAL OF MATHEMATICS	10.1155/2020/2365078
60	Boggarapu, PK; Manickam, C; Lehman, B; Ganesan, SI; Chilakapati, N	Stacked Back Reflector Architecture for Advanced Optical Management in State-of-the-Art Single-Junction mu c-Si:H Solar Cells	IEEE TRANSACTIONS ON POWER ELECTRONICS	10.1109/TPEL.2020.2987856
61	Devarajan, Y; Munuswamy, D; Nagappan, B; Choubey, G	Investigating the mechanical, thermal and melt flow index properties of HNTs - LLDPE nano composites for the applications of rotational moulding	FUEL	10.1016/j.fuel.2020.118400
62	Murthy, KVN; Reddy, TA; Kumar, KV	Machinability evaluation during machining of AISI 52100 steel with textured tools under Minimum Quantity Lubrication - A comparative study	PURE AND APPLIED GEOPHYSICS	10.1007/s00024-019-02236-x
63	Nidhya, R; Kumar, M; Ravi, RV; Deepak, V	High responsivity ZnO based p-n homojunction UV-photodetector with series Schottky barrier	ENVIRONMENTAL TECHNOLOGY & INNOVATION	10.1016/j.eti.2020.101116
64	Panigrahy, PS; Santra, D; Chattopadhyay, P	Numerical buckling analysis of graded CNT-reinforced composite sandwich shell structure under thermal loading (vol 216, pg 406, 2019)	AI EDAM-ARTIFICIAL INTELLIGENCE FOR ENGINEERING DESIGN ANALYSIS AND MANUFACTURING	10.1017/S0890060420000311

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65	Sahoo, B; Sahoo, B; Sharma, N; Mehar, K; Panda, SK	Optical and spectroscopic properties of Ho ³⁺ -doped fluorophosphate glasses for visible lighting applications	SMART STRUCTURES AND SYSTEMS	10.12989/sss.2020.26.5.641
66	Sivaiah, P; Chakradhar, D	Modeling and predicting the patterns of seasonal rainfall in Tamil Nadu, India 1951-2017: an UCM approach	MACHINING SCIENCE AND TECHNOLOGY	10.1080/10910344.2020.1815039
67	Choubey, G; Yuvarajan, D; Huang, W; Shafee, A; Pandey, KM	In pursuit of catalytic cathodes for lithium-oxygen batteries (vol 5, pg 7710, 2017)	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	10.1016/j.ijhydene.2020.07.098
68	Akbar, MA; Shameem, M; Mahmood, S; Alsanad, A; Gumaiei, A	Fabrication of superhydrophobic coating on PEO treated zirconium samples and its corrosion resistance	APPLIED SOFT COMPUTING	10.1016/j.asoc.2020.106557
69	Arun, I; Yuvaraj, C; Jyothibabu, P; Reddy, GCS	A Low Complex Selective Block Correlation for Video Frame Interpolation	SILICON	10.1007/s12633-019-00333-z
70	Devaki, P; Rao, AS; Sharma, RP; Sreenadh, S	AC Loss Analysis on Coated Conductors at different Sinusoidal Frequencies for Electric Propulsion Applications	INDIAN JOURNAL OF PURE & APPLIED PHYSICS	
71	Devarajan, Y; Nagappan, B; Mageshwaran, G; Kumar, MS; Durairaj, RB	Structural, Morphological and 1/f Noise Properties of ITO/TiO ₂ Thin Films by e-Beam Evaporation System for Optoelectronic Device Applications	FUEL	10.1016/j.fuel.2020.118161
72	Katariya, PV; Mehar, K; Panda, SK	NEW TYPES OF BIPOLAR FUZZY IDEALS OF BCK-ALGEBRAS	INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS	10.1016/j.ijnonlinmec.2020.103527
73	Kumar, R; Sahoo, S; Joanni, E; Singh, RK; Maegawa, K; Tan, WK; Kawamura, G; Kar, KK; Matsuda, A	An Automatic and a Machine-assisted Method to Clean Bilingual Corpus	MATERIALS TODAY	10.1016/j.mattod.2020.04.010
74	Kuppusamy, P; Venkatraman, S; Rishikeshan, CA; Reddy, YCAP	Efficient Semantic Interrogation Scheme over Cryptographic Data in Cloud	PHYSICAL COMMUNICATION	10.1016/j.phycom.2020.101131
75	Narasimha Murthy K.V., Saravana R., Kishore Kumar G., Vijaya Kumar K.	Modelling and forecasting for monthly surface air temperature patterns in India, 1951–2016: Structural time series approach	Journal of Earth System Science	10.1007/s12040-020-01521-x

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76	Dash L., Padhan S., Das A., Das S.R.	Machinability investigation and sustainability assessment in hard turning of AISI D3 steel with coated carbide tool under nanofluid minimum quantity lubrication-cooling condition	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	10.1177/0954406221993844
77	Dhasarathan C., Kumar M., Srivastava A.K., Al-Turjman F., Shankar A., Kumar M.	A bio-inspired privacy-preserving framework for healthcare systems	Journal of Supercomputing	10.1007/s11227-021-03720-9
78	Kumar M., Verma V.K., Singh V.R.	Magnetic anisotropic of thermally evaporated FeNi thin film: A soft X-ray magnetic circular dichroism study	Surface and Interface Analysis	10.1002/sia.6982
79	Singh M.M., Kumar H., Sivaiah P.	Evaluation of Mechanical Properties of Glass Fiber-BMPM/DABA-PMC Composite	Transactions of the Indian Institute of Metals	10.1007/s12666-021-02314-6
80	Tharehalli mata G., Mokenapalli V., Krishna H.	Performance analysis of MR damper based semi-active suspension system using optimally tuned controllers	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	10.1177/09544070211004467
81	Nasar S., Baruch L.J., Vijay S.J., Srinivas C.K., Jose J., Popov V.V.	Erratum to: Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy (Physics of Metals and Metallography, (2021), 122, 5, (515-526), 10.1134/S0031918X21050100)	Physics of Metals and Metallography	10.1134/S0031918X21880025
82	Devi N., Sahoo S., Kumar R., Singh R.K.	A review of the microwave-assisted synthesis of carbon nanomaterials, metal oxides/hydroxides and their composites for energy storage applications	Nanoscale	10.1039/d1nr01134k
83	Pradhan B.B., Roy L.P., Mahapatra D.K.	Performance assessment of orthogonal space-time block codes in Nakagami-m/inverse Gaussian fading MIMO channels	IET Communications	10.1049/cmu2.12166
84	Devarajan Y., Nagappan B., Choubey G., Vellaiyan S., Mehar K.	Renewable Pathway and Twin Fueling Approach on Ignition Analysis of a Dual-Fuelled Compression Ignition Engine	Energy and Fuels	10.1021/acs.energyfuels.0c04237

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85	Nallabala N.K.R., Godavarthi S., Kummara V.K., Kesarla M.K., Yuvaraj C., Suresh Kumar, Ravi N., Guntupalli G.K., Jilani S.A.K., Vattikuti S.V.P.	High performance, self-powered and thermally stable 200–750 nm spectral responsive gallium nitride (GaN) based broadband photodetectors	Solar Energy Materials and Solar Cells	10.1016/j.solmat.2021.111033
86	Kumar R., Sahoo S., Joanni E., Singh R.K., Tan W.K., Kar K.K., Matsuda A.	Recent progress on carbon-based composite materials for microwave electromagnetic interference shielding	Carbon	10.1016/j.carbon.2021.02.091
87	Nongjai R., Samad R., Singh V.R., Verma V.K., Kandasami A.	Magnetic and electronic structures of N implanted iron oxide thin films	Journal of Magnetism and Magnetic Materials	10.1016/j.jmmm.2020.167703
88	Nasar S., Baruch L.J., Vijay S.J., Srinivas C.K., Jose J., Popov V.V.	Comparative Study on H2O Steel Billets: Additive Manufacturing vs. Powder Metallurgy	Physics of Metals and Metallography	10.1134/S0031918X21050100
89	Paul S., Pati U.C.	High-resolution optical-to-SAR image registration using mutual information and SPSA optimisation	IET Image Processing	10.1049/ipr2.12107
90	Roy C., Islam A.	Design of low power, variation tolerant single bitline 9T SRAM cell in 16-nm technology in subthreshold region	Microelectronics Reliability	10.1016/j.microrel.2021.114126
91	Gadipelly T., Dasgupta A., Sornadurai D., Dhara S.	Controlling the morphology of nanocrystalline Y(OH)3 powders synthesized by microwave-hydrothermal route and effect of annealing	Applied Physics A: Materials Science and Processing	10.1007/s00339-021-04435-7
92	De S., Maity C.K., Sahoo S., Nayak G.C.	Polyindole Booster for Ti3C2TxMXene Based Symmetric and Asymmetric Supercapacitor Devices	ACS Applied Energy Materials	10.1021/acsaem.1c00142
93	Kumari P., Zzaman M., Jena S., Kumar M., Bharadwaj R.R., Verma V.K., Shahid R., Amemiya K., Singh V.R.	Electronic and Magnetic Properties of Chemical Solution Deposited BiFeO3 Thin Film: a Soft X-ray Magnetic Circular Dichroism Study	Journal of Superconductivity and Novel Magnetism	10.1007/s10948-021-05840-y
94	Rathanasamy R., Sahoo S., Lee J.H., Das A.K., Somasundaram M., Palaniappan S.K., Sivaraj S.	Carbon-based Multi-layered Films for Electronic Application: A Review	Journal of Electronic Materials	10.1007/s11664-020-08724-4

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95	Patnaik N., Panda A.K., Mohanty P.R., Pandey R.	DEC fuel cell-based universal power compensator for dual PCC system	International Transactions on Electrical Energy Systems	10.1002/2050-7038.12805
96	Khan A.A., Shameem M., Nadeem M., Akbar M.A.	Agile trends in Chinese global software development industry: Fuzzy AHP based conceptual mapping	Applied Soft Computing	10.1016/j.asoc.2021.107090
97	Devarajan Y., Nagappan B., Subbiah G., Kariappan E.	Experimental investigation on solar-powered ejector refrigeration system integrated with different concentrators	Environmental Science and Pollution Research	10.1007/s11356-020-12248-z
98	Perumal A., Azhagurajan A., Prithivirajan R., Kumar S.S.	Experimental Investigation and Optimization of Process Parameters in Ti – (6242) Alpha–Beta Alloy Using Electrical Discharge Machining	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-020-01786-1
99	Kurmi Y., Gangwar S., Agrawal D., Kumar S., Srivastava H.S.	Leaf image analysis-based crop diseases classification	Signal, Image and Video Processing	10.1007/s11760-020-01780-7
100	Ebrahimi F., Karimiasl M., Singhal A.	Magneto-electro-elastic analysis of piezoelectric–flexoelectric nanobeams rested on silica aerogel foundation	Engineering with Computers	10.1007/s00366-019-00869-z
101	Ramteke P.M., Mehar K., Sharma N., Panda S.K.	Numerical prediction of deflection and stress responses of functionally graded structure for grading patterns (power-law, sigmoid, and exponential) and variable porosity (even/uneven)	Scientia Iranica	10.24200/SCI.2020.55581.4290
102	Jena P.R., Majhi R., Kalli R., Managi S., Majhi B.	Impact of COVID-19 on GDP of major economies: Application of the artificial neural network forecaster	Economic Analysis and Policy	10.1016/j.eap.2020.12.013
103	Deshamukhya T., Bhanja D., Nath S.	Heat transfer enhancement through porous fins: A comprehensive review of recent developments and innovations	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	10.1177/0954406220939600
104	Nagappan B., Devarajan Y., Kariappan E., Philip S.B., Gautam S.	Influence of antioxidant additives on performance and emission characteristics of beef tallow biodiesel-fuelled C.I engine	Environmental Science and Pollution Research	10.1007/s11356-020-09065-9

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105	Prabhakar Vattikuti S.V., Devarayapalli K.C., Chandra Sekhar M., Kumar Reddy Nallabala N., Nguyen Dang N., Shim J.	Electrochemical performance of coin cell-type symmetric supercapacitor electrode consisting of three- dimensional molybdenum disulfide microflowers	Materials Letters	10.1016/j.matlet.2020.129203
106	Bardhan Roy A., Vinay Kumar K., Saha M.	Light management studies by using different surface texturing for thin c-Si solar cells	Applied Physics A: Materials Science and Processing	10.1007/s00339-020-04208-8
107	Chauhan A., Naseem S., Bahadur J., Singh B.R., Shoeb M., Husain S., Khan W.	Structural and electrochemical properties of GO/Mn3O4 nanocomposite	Journal of Materials Science: Materials in Electronics	10.1007/s10854-020-05132-6
108	Arora S., Satsangi S., Kaur S., Khanna R.	Substation demand reduction by CVR enabled intelligent PV inverter control functions in distribution systems	International Transactions on Electrical Energy Systems	10.1002/2050-7038.12724
109	Katariya P.V., Panda S.K., Mehar K.	Theoretical modelling and experimental verification of modal responses of skewed laminated sandwich structure with epoxy-filled softcore	Engineering Structures	10.1016/j.engstruct.2020.111509
110	Mahadevan A., Arock M.	A class imbalance-aware review rating prediction using hybrid sampling and ensemble learning	Multimedia Tools and Applications	10.1007/s11042-020-10024-2
111	Thirugnanasambandam K., Sudha S.V., Saravanan D., Ravi R.V., Anguraj D.K., Raghav R.S.	Reinforced Cuckoo Search based fugitive landfill methane emission estimation	Environmental Technology and Innovation	10.1016/j.eti.2020.101207
112	Reddy B.P., Mallikarjuna K., Kumar M., Sekhar M.C., Suh Y., Park S.-H.	Highly porous metal organic framework derived NiO hollow spheres and flowers for oxygen evolution reaction and supercapacitors	Ceramics International	10.1016/j.ceramint.2020.09.172
113	Arun I., Yuvaraj C., Madhu A., Ramesh T.	A comparison on microstructure and mechanical properties of electric discharge metal matrix nickel and silica composite coating on duplex stainless steel	Journal of Composite Materials	10.1177/0021998320953882
114	Murthy K.V.N., Kishore Kumar G.	Structural time-series modelling for seasonal surface air temperature patterns in India 1951–2016	Meteorology and Atmospheric Physics	10.1007/s00703-020-00732-7

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115	Beemkumar N., Yuvarajan D., Arulprakasajothi M., Elangovan K., Arunkumar T.	Control of room temperature fluctuations in the building by incorporating PCM in the roof	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-019-09226-0
116	Sahoo B., Mehar K., Sahoo B., Sharma N., Panda S.K.	Thermal frequency analysis of FG sandwich structure under variable temperature loading	Structural Engineering and Mechanics	10.12989/sem.2021.77.1.057
117	Vattikuti S.V.P., Devarayapalli K.C., Reddy Nallabala N.K., Nguyen T.N., Nguyen Dang N., Shim J.	Onion-Ring-like Carbon and Nitrogen from ZIF-8 on TiO ₂ /Fe ₂ O ₃ Nanostructure for Overall Electrochemical Water Splitting	Journal of Physical Chemistry Letters	10.1021/acs.jpcclett.1c01497
118	Aurtherson P.B., Nalla B.T., Srinivasan K., Mehar K., Devarajan Y.	Biofuel production from novel Prunus domestica kernel oil: process optimization technique	Biomass Conversion and Biorefinery	10.1007/s13399-021-01551-5
119	Paul S., Pati U.C.	A comprehensive review on remote sensing image registration	International Journal of Remote Sensing	10.1080/01431161.2021.1906985
120	Al-Amin M., Abdul-Rani A.M., Ahmed R., Rao T.V.V.L.N.	Multiple-objective optimization of hydroxyapatite-added EDM technique for processing of 316L-steel	Materials and Manufacturing Processes	10.1080/10426914.2021.1885715
121	Ketham R., Althuwayb A.A., Kumar A.	Low-profile Magneto-electric Dipole Antenna	IETE Journal of Research	10.1080/03772063.2021.1873200
122	Sahoo P.R., Patel A., Ghosh S., Naskar A.K.	Selection of overlapping interactions through approximate decentralised fixed mode measure	International Journal of Systems Science	10.1080/00207721.2021.1872115
123	Manjunath V., Nallabala N.K.R., Yuvaraj C., Kukkambakam C., Kummara V.K., Kumar S., Sharma S., Lakshmaiah M.V., Minnam Reddy V.R.	Statistical analysis of current–voltage characteristics in Au/Ta ₂ O ₅ /n-GaN Schottky barrier heterojunction using different methods	Applied Physics A: Materials Science and Processing	10.1007/s00339-020-04173-2
124	Ravi N., Neelima G., Reddy Nallabala N.K., Kummara V.K., Ravanamma R., Reddy V.J., Prasanth M., Suresh K., Babu P., Venkatramu V.	Role of excitation wavelength and dopant concentration on white light tunability of dysprosium doped titania-fluorophosphate glasses	Optical Materials	10.1016/j.optmat.2020.110593
125	Ahmad N., Hasan M.G.	Self-adaptive query-broadcast in wireless ad-hoc networks using fuzzy best worst method	Wireless Networks	10.1007/s11276-020-02477-y

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126	Huifeng W., Shankar A., Vivekananda G.N.	Modelling and simulation of sprinters' health promotion strategy based on sports biomechanics	Connection Science	10.1080/09540091.2020.1807467
127	Das A., Patel S.K., Arakha M., Dey A., Biswal B.B.	Processing of hardened steel by MQL technique using nano cutting fluids	Materials and Manufacturing Processes	10.1080/10426914.2020.1832688
128	Sivalingam V., Zhuoliang Z., Jie S., Baskaran S., Yuvaraj N., Gupta M.K., Aqib M.K.	Use of Atomized Spray Cutting Fluid Technique for the Turning of a Nickel Base Superalloy	Materials and Manufacturing Processes	10.1080/10426914.2020.1832687
129	Arunnellaiappan T., Baskaran S., Arun S., Prithivirajan R.	Corrosion behaviour of detonation gun sprayed cermet coatings on AA5083	Surface Engineering	10.1080/02670844.2020.1807096
130	Vivekananda G.N., Swathi R., Sujith A.V.L.N.	Multi-temporal image analysis for LULC classification and change detection	European Journal of Remote Sensing	10.1080/22797254.2020.1771215
131	Padhan S., Das A., Santoshwar A., Dharmendrabhai T.R., Das S.R.	Sustainability Assessment and Machinability Investigation of Austenitic Stainless Steel in Finish Turning with Advanced Ultra-Hard SiAlON Ceramic Tool under Different Cutting Environments	Silicon	10.1007/s12633-020-00409-1
132	Mehar K., Mishra P.K., Panda S.K.	Numerical investigation of thermal frequency responses of graded hybrid smart nanocomposite (CNT-SMA-Epoxy) structure	Mechanics of Advanced Materials and Structures	10.1080/15376494.2020.1725193
133	Reddy N.N.K., Kukkambakam C., Manjunath V., Reddy V.R.M.	Analysis of Double Gaussian Distribution at the Interface of Ni/Ta2O5/P-Si Schottky Barrier Diodes Using Temperature Dependent Current-Voltage (I-V) Measurements	Silicon	10.1007/s12633-020-00407-3
134	Shyam Kumar R., Balasundar P., Al-Dhabi N.A., Prithivirajan R., Ramkumar T., Bhat K.S., Senthil S., Narayanasamy P.	A New Natural Cellulosic Pigeon Pea (Cajanus cajan) Pod Fiber Characterization for Bio-degradable Polymeric Composites	Journal of Natural Fibers	10.1080/15440478.2019.1689887
135	Rai G.N., Gangadharan G.R., Padmanabhan V., Buyya R.	Web Service Interaction Modeling and Verification Using Recursive Composition Algebra	IEEE Transactions on Services Computing	10.1109/TSC.2018.2789454
136	Katiyar, JK; Rao, TVVLN; Ul Haq, MI; Bin Abdollah, MF	Tribology for sustainability & reliability	INDUSTRIAL LUBRICATION AND TRIBOLOGY	10.1108/ilt-11-2021-0450

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137	Mata, GT; Mokenapalli, V; Krishna, H	High performance, self-powered and thermally stable 200-750 nm spectral responsive gallium nitride (GaN) based broadband photodetectors	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING	10.1177/09544070211004467
138	Nasar, S; Baruch, LJ; Vijay, SJ; Srinivas, CK; Jose, J; Popov, VV	Ideal theory of BCK/BCI-algebras based on hybrid structures	PHYSICS OF METALS AND METALLOGRAPHY	10.1134/S0031918X21880025

List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2019-20

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1	Patra J.P., Singh P.	A novel LMMSE-EM channel estimator for high mobility STBC-OFDM system	Journal of Circuits, Systems and Computers	10.1142/S0218126619502232
2	Subbarayalu V., Surendiran B., Arun Raj Kumar P.	Hybrid Network Intrusion Detection System for Smart Environments Based on Internet of Things	Computer Journal	10.1093/comjnl/bxz082
3	Dong M.-Z., Liao J., Choubey G., Huang W.	Influence of the secondary flow control on the transverse gaseous injection flow field properties in a supersonic flow	Acta Astronautica	10.1016/j.actaastro.2019.08.028
4	Devarajan Y., Munuswamy D., Nagappan B., Subbiah G.	Experimental assessment of performance and exhaust emission characteristics of a diesel engine fuelled with Punnai biodiesel/butanol fuel blends	Petroleum Science	10.1007/s12182-019-00361-9
5	Vaish R., Sarfaraz M., Ahmad M.K., Kazmi K.R.	Approximate solution of zero point problem involving H-accretive maps in Banach spaces and applications	Journal of Inequalities and Applications	10.1186/s13660-019-2163-y
6	Kumar S.A., Chandramohan D.	Fault test analysis in transmission lines throughout interfering synchrophasor signals	ICT Express	10.1016/j.icte.2018.03.003
7	Saroj P.K., Sahu S.A., Singhal A., Abo-Dahab S.M.	On the transference of Love-type waves in pre-stressed PZT-5H material stick on SiO ₂ material with irregularity	Materials Research Express	10.1088/2053-1591/ab5544
8	Gorai A., Roy B., Mahanti G.K.	A compact CPW-fed wideband slot antenna with reflector for wireless communication	Electromagnetics	10.1080/02726343.2019.1675439
9	Aravind Kumar J., Joshua Amarnath D., Anuradha Jabasingh S., Senthil Kumar P., Vijai Anand K., Narendrakumar G., Karthick Raja Namasivayam S., Krithiga T., Sunny S., Purna Pushkala S., Yuvarajan D.	One pot Green Synthesis of Nano magnesium oxide-carbon composite: Preparation, characterization and application towards anthracene adsorption	Journal of Cleaner Production	10.1016/j.jclepro.2019.117691
10	Jayakrishnan A.R., Alex K.V., Kamakshi K., Silva J.P.B., Sekhar K.C., Gomes M.J.M.	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr0.2Ti0.8)O ₃ -0.4(Ba0.7Ca0.3)TiO ₃ ceramics through the incorporation of paraelectric SrTiO ₃	Journal of Materials Science: Materials in Electronics	10.1007/s10854-019-02299-5
11	Debnath S., Hossain A.	Network Coverage in Interference Limited Wireless Sensor Networks	Wireless Personal Communications	10.1007/s11277-019-06555-z
12	Alex K.V., Prabhakaran A., Jayakrishnan A.R., Kamakshi K., Silva J.P.B., Sekhar K.C.	Charge Coupling Enhanced Photocatalytic Activity of BaTiO ₃ /MoO ₃ Heterostructures	ACS Applied Materials and Interfaces	10.1021/acsami.9b14919

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13	Noolu V., Mudavath H., Pillai R.J., Yantrapalli S.K.	Permanent deformation behaviour of black cotton soil treated with calcium carbide residue	Construction and Building Materials	10.1016/j.conbuildmat.2019.07.010
14	Purusottam Reddy B., Cui H., Chandra Sekhar M., Vattikuti S.V.P., Suh Y., Park S.-H.	Influence of Gd doping on the visible-light photocatalytic activity and magnetic properties of BiFeO ₃ particles	Materials Research Express	10.1088/2053-1591/ab463d
15	Varshney G., Gotra S., Chaturvedi S., Pandey V.S., Yaduvanshi R.S.	Compact four-port MIMO dielectric resonator antenna with pattern diversity	IET Microwaves, Antennas and Propagation	10.1049/iet-map.2018.5799
16	Bandapalli C., Sutaria B.M., Bhatt D.V.	Estimation of surface roughness on ti-6Al-4V in high speed micro end milling by ANFIS model	Indian Journal of Engineering and Materials Sciences	
17	Srivastava J., Sanyal S., Srivastava A.K.	An automatic and a machine-assisted method to clean Bilingual corpus	ACM Transactions on Asian and Low-Resource Language Information Processing	10.1145/3342351
18	Khan A.A., Shameem M., Kumar R.R., Hussain S., Yan X.	Fuzzy AHP based prioritization and taxonomy of software process improvement success factors in global software development	Applied Soft Computing Journal	10.1016/j.asoc.2019.105648
19	Bojjagani S., Sastry V.N.	A secure end-to-end proximity NFC-based mobile payment protocol	Computer Standards and Interfaces	10.1016/j.csi.2019.04.007
20	Singh K.S., Tyagi B., Verma V.K., Maity S.	Assessing the performance evaluation of different convective parameterization schemes in simulating the intensity of severe cyclonic storms over the Bay of Bengal region	Meteorological Applications	10.1002/met.1787
21	De A., Roy B., Bhattacharjee A.K.	Dual-Notched Monopole Antenna Using DGS for WLAN and Wi-MAX Applications	Journal of Circuits, Systems and Computers	10.1142/S0218126619501895
22	Narasimha Murthy K.V., Saravana R., Rajendra P.	Unobserved component modeling for seasonal rainfall patterns in Rayalaseema region, India 1951–2015	Meteorology and Atmospheric Physics	10.1007/s00703-018-0645-y
23	Banthia S., Sengupta S., Das S., Das K.	Cu, Cu-SiC functionally graded coating for protection against corrosion and wear	Surface and Coatings Technology	10.1016/j.surfcoat.2019.06.050
24	Nagesha K.V., Kumar H., Muralidhar Singh M.	Development of statistical models to predict emission rate and concentration of particulate matters (PM) for drilling operation in opencast mines	Air Quality, Atmosphere and Health	10.1007/s11869-019-00723-7
25	Singhal A., Sahu S.A., Nirwal S., Chaudhary S.	Anatomy of flexoelectricity in micro plates with dielectrically highly/weakly and mechanically compliant interface	Materials Research Express	10.1088/2053-1591/ab3f52
26	Koduru H.K., Bruno L., Marinov Y.G., Hadjichristov G.B., Scaramuzza N.	Mechanical and sodium ion conductivity properties of graphene oxide–incorporated nanocomposite polymer electrolyte membranes	Journal of Solid State Electrochemistry	10.1007/s10008-019-04359-6

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27	Shukla A.K., Tripathi D.	Identification of potential biomarkers on microarray data using distributed gene selection approach	Mathematical Biosciences	10.1016/j.mbs.2019.108230
28	Varshney G., Gotra S., Pandey V.S., Yaduvanshi R.S.	Proximity-coupled two-port multi-input-multi-output graphene antenna with pattern diversity for THz applications	Nano Communication Networks	10.1016/j.nancom.2019.05.003
29	Muralidhar Singh M., Kumar H., Nagesha K.V., Sivaiah P., Hemath Kumar G., Ajay K.M., Vijaya G.	Evaluation of Multilayer Thin Film Coatings for Solar Thermal Applications	Arabian Journal for Science and Engineering	10.1007/s13369-019-03904-9
30	Roy B., Chowdhury S.K., Bhattacharjee A.K.	Symmetrical Hexagonal Monopole Antenna with Bandwidth Enhancement Under UWB Operations	Wireless Personal Communications	10.1007/s11277-019-06433-8
31	Sitharthan R., Ponnusamy M., Karthikeyan M., Sundar D.S.	Analysis on smart material suitable for autogenous microelectronic application	Materials Research Express	10.1088/2053-1591/ab3c0b
32	Sivalingam V., Sun J., Selvam B., Zheng P., Zan Z.	Investigation of cryogenically treated physical vapor deposition TiAlN/NbN-coated carbide inserts in end milling of hard titanium alloy	Journal of Testing and Evaluation	10.1520/JTE20180728
33	Balasundar P., Narayanasamy P., Senthil S., Abdullah Al-Dhabi N., Prithivirajan R., Shyam Kumar R., Ramkumar T., Subrahmanya Bhat K.	Physico-chemical study of pistachio (<i>Pistacia vera</i>) nutshell particles as a bio-filler for eco-friendly composites	Materials Research Express	10.1088/2053-1591/ab3b9b
34	Sudhakar R., Rao P.V.V.	Video super resolution using non-linear regression and deep learning	Imaging Science Journal	10.1080/13682199.2019.1652445
35	Varshney G., Gotra S., Pandey V.S., Yaduvanshi R.S.	Proximity-Coupled Graphene-Patch-Based Tunable Single-/Dual-Band Notch Filter for THz Applications	Journal of Electronic Materials	10.1007/s11664-019-07274-8
36	Beemkumar N., Yuvarajan D., Karthikeyan A., Ganesan S.	Comparative experimental study on parabolic trough collector integrated with thermal energy storage system by using different reflective materials	Journal of Thermal Analysis and Calorimetry	10.1007/s10973-018-07989-6
37	Narasimha Murthy K.V., Saravana R., Vijaya Kumar K.	Stochastic modelling of the monthly average maximum and minimum temperature patterns in India 1981–2015	Meteorology and Atmospheric Physics	10.1007/s00703-018-0606-5
38	Teki S.M., Varma M.K., Yadav A.K.	Brain tumour segmentation using U-net based adversarial networks	Traitement du Signal	10.18280/ts.360408
39	Arun I., Gangadhar B., Yuvaraj C., Kousalya C.	Electrical discharge metal matrix composite coating on duplex stainless steel and its wear behavior under different environmental conditions	Materials Research Express	10.1088/2053-1591/ab33bf

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40	Vinod A., Kumar P., Bhowmick B.	Impact of ferroelectric on the electrical characteristics of silicon–germanium based heterojunction Schottky barrier FET	AEU - International Journal of Electronics and Communications	10.1016/j.aeue.2019.05.030
41	Mathew A., Sreekumar S., Khandelwal S., Kumar R.	Prediction of land surface temperatures for surface urban heat island assessment over Chandigarh city using support vector regression model	Solar Energy	10.1016/j.solener.2019.04.001
42	Bhosale A., Zade N.P., Davis R., Sarkar P.	Experimental Investigation of Autoclaved Aerated Concrete Masonry	Journal of Materials in Civil Engineering	10.1061/(ASCE)MT.1943-5533.0002762
43	Koduru H.K., Marinov Y.G., Hadjichristov G.B., Scaramuzza N.	Characterization of polymer/liquid crystal composite based electrolyte membranes for sodium ion battery applications	Solid State Ionics	10.1016/j.ssi.2019.02.021
44	Bablani A., Edla D.R., Tripathi D., Kuppili V.	An efficient Concealed Information Test: EEG feature extraction and ensemble classification for lie identification	Machine Vision and Applications	10.1007/s00138-018-0950-y
45	Mohan Krishna Varma N., Kalyani M., Shin S.-Y., Park S.-H.	Underwater spray and wait routing technique for mobile ad-hoc networks	Indian Journal of Geo-Marine Sciences	
46	Varshney G., Gotra S., Singh R., Pandey V.S., Yaduvanshi R.S.	Dimensions selection criteria of stair-shaped slot for obtaining the wideband response of CPDRA	Defence Science Journal	10.14429/dsj.69.14948
47	Gaffar S.A., Ur-Rehman K., Reddy P.R., Prasad V.R., Khan B.M.H.	Powell–yring fluid flow towards an isothermal sphere in a non-darcy porous medium	Canadian Journal of Physics	10.1139/cjp-2018-0835
48	Patra, JP; Singh, P	Evaluation of hybrid textured tool performance under minimum quantity lubrication while turning of AISI 304 steel	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S0218126619502232
49	Saikrishnan, V; Karthikeyan, A; Beemkumar, N; Ganesan, S; Yuvarajan, D	Decision support system toward evaluation of resilient supplier A novel fuzzy gain-loss computational approach	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING	10.1007/s40430-019-2106-z
50	Devarajan, Y; Munuswamy, D; Nagappan, B; Subbiah, G	Enhancing the dielectric relaxor behavior and energy storage properties of 0.6Ba(Zr0.2Ti0.8)O-3-0.4(Ba0.7Ca0.3)TiO3 ceramics through the incorporation of paraelectric SrTiO3	PETROLEUM SCIENCE	10.1007/s12182-019-00361-9
51	Dong, MZ; Liao, J; Choubey, G; Huang, W	Powell-Eyring fluid flow towards an isothermal sphere in a non-Darcy porous medium	ACTA ASTRONAUTICA	10.1016/j.actaastro.2019.08.028

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52	Kumar, SA; Chandramohan, D	Response to Discussion on "Nearest and Non-Nearest Three Vector Modulations of NPCI Using Two-Level Space Vector Diagram-A Novel Approach"	ICT EXPRESS	10.1016/j.ict.2018.03.003
53	Reddy, NNK; Ananda, P; Verma, VK; Bakash, KR	Mechanical and sodium ion conductivity properties of graphene oxide-incorporated nanocomposite polymer electrolyte membranes	SURFACE REVIEW AND LETTERS	10.1142/S0218625X19500732
54	Saroj, PK; Sahu, SA; Singhal, A; Abo-Dahab, SM	Dual-band circular polarisation generation technique with the miniaturisation of a rectangular dielectric resonator antenna	MATERIALS RESEARCH EXPRESS	10.1088/2053-1591/ab5544
55	Sivaiah, P	Stochastic modelling of the monthly average maximum and minimum temperature patterns in India 1981-2015	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING	10.1007/s40430-019-2069-0
56	Sivaiah, P; Uma, B	Obtaining the circular polarization in a nanodielectric resonator antenna for photonics applications	EMERGING MATERIALS RESEARCH	10.1680/jemmr.17.00029
57	Subbarayalu, V; Surendiran, B; Kumar, PAR	Compact four-port circulator based on 2D photonic crystals with a 90 degrees rotation of the light wave for photonic integrated circuits applications	COMPUTER JOURNAL	10.1093/comjnl/bxz082
58	Wang, W; Huang, L; Zhu, YL; Jiang, LP; Sahu, AK; Sahu, AK; Sahu, NK	Recent advances in cavity-based scramjet engine- a brief review	KYBERNETES	10.1108/K-05-2019-0345
59	Jagadeesan, AK; Duvuru, JA; Jabasingh, SA; Ponnusamy, SK; Kabali, VA; Gopakumaran, N; Selvaraj, KRN; Thangavelu, K; Sunny, S; Somasundaram, PP; Devarajan, Y	New results on restricted static output feedback H_{∞} infinity controller design with regional pole placement	JOURNAL OF CLEANER PRODUCTION	10.1016/j.jclepro.2019.117691
60	Bablani, A; Edla, DR; Tripathi, D; Dodia, S; Chintala, S	Evaluation of temperature dependent electrical transport parameters in Fe ₃ O ₄ /SiO ₂ /n-Si metal-insulator-semiconductor (MIS) type Schottky barrier heterojunction in a wide temperature range	IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY	10.1109/TIFS.2019.2913798
61	Debnath, S; Hossain, A	Composition-dependent xBa(Zr _{0.2} Ti _{0.8})O ₃ -(1-x)(Ba _{0.7} Ca _{0.3})TiO ₃ bulk ceramics for high energy storage applications	WIRELESS PERSONAL COMMUNICATIONS	10.1007/s11277-019-06555-z

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62	Jayakrishnan, AR; Alex, KV; Kamakshi, K; Silva, JPB; Sekhar, KC; Gomes, MJM	Magnetohydrodynamic Non-Darcy Flows of Nanofluid from Horizontal Circular Permeable Cylinder: A Buongiorno's Mathematical Model	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	10.1007/s10854-019-02299-5
63	Alex, KV; Prabhakaran, A; Jayakrishnan, AR; Kamakshi, K; Silva, JPB; Sekhar, KC	Comparative Analysis of Hetero Gate Dielectric Hetero Structure Tunnel FET and Schottky Barrier FET with n plus Pocket Doping for Suppression of Ambipolar Conduction and Improved RF/Linearity	ACS APPLIED MATERIALS & INTERFACES	10.1021/acsami.9b14919
64	Noolu, V; Mudavath, H; Pillai, RJ; Yantrapalli, SK	Experimental investigation on mechanical properties of Al 7075/Al2O3/Mg NMMC's by stir casting method	CONSTRUCTION AND BUILDING MATERIALS	10.1016/j.conbuildmat.2019.07.010
65	Gorai, A; Roy, B; Mahanti, GK	Demand factor definition-A dimensionless parameter for Vertical Axis Wind Turbines	ELECTROMAGNETICS	10.1080/02726343.2019.1675439
66	Varshney, G; Gotra, S; Chaturvedi, S; Pandey, VS; Yaduvanshi, RS	Electro-Optics of PDLC Films Doped with WO3 Nanoparticles	IET MICROWAVES ANTENNAS & PROPAGATION	10.1049/iet-map.2018.5799
67	Balasundar, P; Narayanasamy, P; Senthil, S; Al-Dhabi, NA; Prithivirajan, R; Kumar, RS; Ramkumar, T; Bhat, KS	A Hybrid Bio-Inspired Algorithm for Protein Domain Problems	MATERIALS RESEARCH EXPRESS	10.1088/2053-1591/ab3b9b
68	Bandapalli, C; Sutaria, BM; Bhatt, DV	Nonlinear H-infinity control of autonomous underwater vehicles	INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES	
69	Bojjagani, S; Sastry, VN	Impact of annealing process on electrical characteristics of Ni Schottky rectifiers fabricated on p-type Si	COMPUTER STANDARDS & INTERFACES	10.1016/j.csi.2019.04.007
70	De, A; Roy, B; Bhattacharjee, AK	Energetic sets and (is an element of, is an element of boolean OR q)-permeable values in BCK/BCI-algebras	JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	10.1142/S0218126619501895
71	Gaffar, SA; Ur-Rehman, K; Reddy, PR; Prasad, VR; Khan, BMH	Influence of Multi-hole Technique on Fabrication of Surface Nanocomposite by Friction Stir Processing	CANADIAN JOURNAL OF PHYSICS	10.1139/cjp-2018-0835
72	Khan, AA; Shameem, M; Kumar, RR; Hussain, S; Yan, XF	Impact of data assimilation and air-sea flux parameterization schemes on the prediction of cyclone Phailin over the Bay of Bengal using the WRF-ARW model	APPLIED SOFT COMPUTING	10.1016/j.asoc.2019.105648
73	Murthy, KVN; Saravana, R; Rajendra, P	Impact of ferroelectric on the electrical characteristics of silicon-germanium based heterojunction Schottky barrier FET	METEOROLOGY AND ATMOSPHERIC PHYSICS	10.1007/s00703-018-0645-y

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74	Boggarapu P.K., Manickam C., Lehman B., Ganesan S.I., Chilakapati N.	Identification of Pre-existing/Undetected Line-to-Line Faults in PV Array Based on Pretun on/off Condition of the PV Inverter	IEEE Transactions on Power Electronics	10.1109/TPEL.2020.2987856
75	Brabin D.R.D., Perinbam J.R.P., Meganathan D.	Watermark Visibility Adjustable RVW Scheme for JPEG Images	Wireless Personal Communications	10.1007/s11277-020-07567-w
76	Prithvirajan R., Narayanasamy P., Al-Dhabi N.A., Balasundar P., Shyam Kumar R., Ponnurugan K., Ramkumar T., Senthil S.	Characterization of Musa paradisiaca L. Cellulosic Natural Fibers from Agro-discarded Blossom Petal Waste	Journal of Natural Fibers	10.1080/15440478.2019.1588826
77	Choubey G., D Y., Huang W., Yan L., Babazadeh H., Pandey K.M.	Hydrogen fuel in scramjet engines - A brief review	International Journal of Hydrogen Energy	10.1016/j.ijhydene.2020.04.086
78	Wang W., Huang L., Zhu Y., Jiang L., Sahu A.K., Sahu A.K., Sahu N.K.	Decision support system toward evaluation of resilient supplier: A novel fuzzy gain-loss computational approach	Kybernetes	10.1108/K-05-2019-0345
79	Ebrahimi F., Hosseini S.H.S., Singhal A.	A comprehensive review on the modeling of smart piezoelectric nanostructures	Structural Engineering and Mechanics	10.12989/sem.2020.74.5.611
80	Sengupta S., Kumar P., Makhatha M.E., Dutt A.K.	Effect of Substructure on Hardness and Conductivity of Copper During Annealing	Transactions of the Indian Institute of Metals	10.1007/s12666-020-01932-w
81	Kumar P., Makhatha M.E., Sengupta S., Dutt A.K.	Prediction of the Propagation of Fatigue Cracks in Part-Through Cracked Pipes with CASCA and FRANC2D	Transactions of the Indian Institute of Metals	10.1007/s12666-020-01886-z
82	Kumar A.	Wideband circular cavity-backed slot antenna with conical radiation patterns	Microwave and Optical Technology Letters	10.1002/mop.32316
83	Raghav R.S., Thirugnansambandam K., Anguraj D.K.	Beeware Routing Scheme for Detecting Network Layer Attacks in Wireless Sensor Networks	Wireless Personal Communications	10.1007/s11277-020-07158-9
84	Penthia T., Panda A.K., Patnaik N., Mohanty P.R.	Performance of SMES system with non-linear dynamic evolution control approach for pulsed power load compensation	IET Generation, Transmission and Distribution	10.1049/iet-gtd.2019.1880
85	Mehar K., Panda S.K., Sharma N.	Numerical investigation and experimental verification of thermal frequency of carbon nanotube-reinforced sandwich structure	Engineering Structures	10.1016/j.engstruct.2020.110444

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86	Mehar K., Panda S.K., Devarajan Y., Choubey G.	Corrigendum to "Numerical buckling analysis of graded CNT-reinforced composite sandwich shell structure under thermal loading" [Compos. Struct. 216 (2019) 406–414](S0263822318344763)(10.1016/j.compstruct.2019.03.002)	Composite Structures	10.1016/j.compstruct.2020.112064
87	Devarajan Y., Beemkumar N., Ganesan S., Arunkumar T.	An experimental study on the influence of an oxygenated additive in diesel engine fuelled with neat papaya seed biodiesel/diesel blends	Fuel	10.1016/j.fuel.2020.117254
88	Kulandaivel N., Muralikannan R., KalyanaSundaram S.	Extraction and Characterization of Novel Natural Cellulosic Fibers from Pigeon Pea Plant	Journal of Natural Fibers	10.1080/15440478.2018.1534184
89	Shariati A., Barati M.R., Ebrahimi F., Singhal A., Toghroli A.	Investigating vibrational behavior of graphene sheets under linearly varying in-plane bending load based on the nonlocal strain gradient theory	Advances in Nano Research	10.12989/anr.2020.8.4.265
90	Dharmale N., Chaudhury S., Mahamune R., Dash D.	Comparative study on structural, electronic, optical and mechanical properties of normal and high pressure phases titanium dioxide using DFT	Materials Research Express	10.1088/2053-1591/ab8d5c
91	Das A.K., Jena S., Sahoo S., Kuchi R., Kim D., Aljohani T.A., Nayak G.C., Jeong J.-R.	Facile synthesis of NiCo ₂ O ₄ nanorods for electrocatalytic oxidation of methanol	Journal of Saudi Chemical Society	10.1016/j.jsocs.2020.03.007
92	Swain R., Chatterjee A., Nanda S., Mishra R.K.	A Linear-to-Circular Polarization Conversion Metasurface Based Wideband Aperture Coupled Antenna	Journal of Electrical Engineering and Technology	10.1007/s42835-020-00402-z
93	Das T.K., Dwivedy B., Behera S.K.	Design of a meandered line microstrip antenna with a slotted ground plane for RFID applications	AEU - International Journal of Electronics and Communications	10.1016/j.aeue.2020.153130
94	Sathesh K., Rajkumar S., Goyal N.K.	Least Mean Square (LMS) based neural design and metric evaluation for auscultation signal separation	Biomedical Signal Processing and Control	10.1016/j.bspc.2019.101784
95	Singh A.K., Kumar S., Singh B.	Solar PV Energy Generation System Interfaced to Three Phase Grid with Improved Power Quality	IEEE Transactions on Industrial Electronics	10.1109/TIE.2019.2921278
96	Shameem M., Kumar R.R., Nadeem M., Khan A.A.	Taxonomical classification of barriers for scaling agile methods in global software development environment using fuzzy analytic hierarchy process	Applied Soft Computing Journal	10.1016/j.asoc.2020.106122
97	Bellam J.B., Jouanneaux A., Subramaniam V., Kassiba A.H.	Statistical experimental design to optimize RF-sputtered NiTiO ₃ thin films	Journal of Materials Science: Materials in Electronics	10.1007/s10854-020-02940-8
98	Roy C., Islam A.	Characterization of single-ended 9T SRAM cell	Microsystem Technologies	10.1007/s00542-019-04700-z

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99	Prajapati A.K., Prasad R.	A New Model Reduction Method for the Linear Dynamic Systems and Its Application for the Design of Compensator	Circuits, Systems, and Signal Processing	10.1007/s00034-019-01264-1
100	Divya S.V., Paul S., Pati U.C.	Structure tensor-based SIFT algorithm for SAR image registration	IET Image Processing	10.1049/iet-ipr.2019.0568
101	Mikhaylov A.A., Sladkevich S., Medvedev A.G., Prihodchenko P.V., Gun J., Sakharov K.A., Xu Z.J., Kulish V., Nikolaev V.A., Lev O.	Enhanced Thermal Buffering of Phase Change Materials by the Intramicrocapsule Sub per Mille CNT Dopant	ACS Applied Materials and Interfaces	10.1021/acsami.9b21205
102	Sahoo P.R., Ghosh S.	On computing critical delay for fixed mode radius: Centralized and decentralized control	Systems and Control Letters	10.1016/j.sysconle.2020.104647
103	T. J.P., G. N., N. R., N. K., Nallabala N.K.R., Kummara V.K., K. S., Gadige P.	Optical and spectroscopic properties of Ho ³⁺ -doped fluorophosphate glasses for visible lighting applications	Materials Research Bulletin	10.1016/j.materresbull.2019.110753
104	Hazarika S.A., Deshmukhya T., Bhanja D., Nath S.	A novel optimum constructal fork-shaped fin array design for simultaneous heat and mass transfer application in a space-constrained situation	International Journal of Thermal Sciences	10.1016/j.ijthermalsci.2019.106225
105	Yalla N., Babu N.A., Agarwal P.	A New Three-Phase Multipoint Clamped 5L-HPFC with Reduced PSD Count and Switch Stress	IEEE Transactions on Industrial Electronics	10.1109/TIE.2019.2910030
106	Edla D.R., Tripathi D., Kuppli V., Dharavath R.	Multilevel Automated Security System for Prevention of Accidents at Unmanned Railway Level Crossings	Wireless Personal Communications	10.1007/s11277-019-06952-4
107	Kumar P., Bhowmick B.	Source-Drain Junction Engineering Schottky Barrier MOSFETs and their Mixed Mode Application	Silicon	10.1007/s12633-019-00170-0
108	Sathya Priya J., Saravanan K., Sathyabama A.R.	Optimized evolutionary algorithm and supervised ACO mechanism to mitigate attacks and improve performance of adhoc network	Computer Communications	10.1016/j.comcom.2020.02.070
109	Prasad E.L., Prasad M.N.G., Reddy A.R.	Hsrdsn: High-speed router design for various noc topologies	Chinese Journal of Electronics	10.1049/cje.2020.01.005
110	Tiwari S.K., Sahoo S., Wang N., Huczko A.	Graphene research and their outputs: Status and prospect	Journal of Science: Advanced Materials and Devices	10.1016/j.jsamd.2020.01.006
111	Mehar K., Panda S.K.	Nonlinear deformation and stress responses of a graded carbon nanotube sandwich plate structure under thermoelastic loading	Acta Mechanica	10.1007/s00707-019-02579-5

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112	Kale S.	Performance Improvement and Analysis of PtSi Schottky Barrier p-MOSFET Based on Charge Plasma Concept for Low Power Applications	Silicon	10.1007/s12633-019-00161-1
113	Beemkumar N., Yuvarajan D., Arulprakasajothi M., Ganesan S., Elangovan K., Senthilkumar G.	Experimental investigation and numerical modeling of room temperature control in buildings by the implementation of phase change material in the roof	Journal of Solar Energy Engineering, Transactions of the ASME	10.1115/1.4044564
114	Karthikeyan M., Sitharthan R., Ali T., Roy B.	Compact multiband CPW fed monopole antenna with square ring and T-shaped strips	Microwave and Optical Technology Letters	10.1002/mop.32106
115	Bhattacharya A., Roy B.	Investigations on an extremely compact MIMO antenna with enhanced isolation and bandwidth	Microwave and Optical Technology Letters	10.1002/mop.32084
116	Dileep G.	A survey on smart grid technologies and applications	Renewable Energy	10.1016/j.renene.2019.08.092
117	Sekhar M.C., Reddy B.P., Prakash B.P., Park S.-H.	Effects of Annealing Temperature on Phase Transformation of CoTiO ₃ Nanoparticles and on their Structural, Optical, and Magnetic Properties	Journal of Superconductivity and Novel Magnetism	10.1007/s10948-019-05199-1
118	Sharma J.R., Das G., Roy A.B., Bose S., Mukhopadhyay S.	Design Analysis of Heterojunction Solar Cells with Aligned AZO Nanorods Embedded in p-type Si wafer	Silicon	10.1007/s12633-019-00134-4
119	Kesarla M.K., Kumar Reddy N.N., Ortiz-Chi F., Espinosa-González C.G., Torres Torres J.G., Hernandez-Como N., Godavarthi S., Martínez-Gómez L.	Transformation of g-C ₃ N ₄ into onion like carbon on nickel nanoparticles for ultrafast hydrogenation	Materials Chemistry and Physics	10.1016/j.matchemphys.2019.12.2157
120	Varshney G.	Reconfigurable graphene antenna for THz applications: A mode conversion approach	Nanotechnology	10.1088/1361-6528/ab60cc
121	Saha D.	Temperature-dependent electrical resistivity and magnetoresistance characteristics of Zn _{1-x} V _x O thin films above Mott critical density	Modern Physics Letters B	10.1142/S0217984920500116
122	Gotra S., Varshney G., Pandey V.S., Yaduvanshi R.S.	Super-wideband multi-input–multi-output dielectric resonator antenna	IET Microwaves, Antennas and Propagation	10.1049/iet-map.2018.6112
123	Sivaiah P., Ajay Kumar G V., Singh M M., Kumar H.	Effect of novel hybrid texture tool on turning process performance in MQL machining of Inconel 718 superalloy	Materials and Manufacturing Processes	10.1080/10426914.2019.1697444
124	Parumandla N., Adepu K.	Effect of tool shoulder geometry on fabrication of Al/Al ₂ O ₃ surface nano composite by friction stir processing	Particulate Science and Technology	10.1080/02726351.2018.1490361

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125	Mythili T., Ramesh J., Ramanathan P.	Innovative localization algorithm using the line of intersection technique in wireless sensor networks	Journal of Internet Technology	10.3966/160792642020032102011
126	Muhiuddin G., Mahboob A.	Int-soft ideals over the soft sets in ordered semigroups	AIMS Mathematics	10.3934/math.2020159
127	Khan A., Li J.P., Ahmad N., Sethi S., Haq A.U., Patel S.H., Rahim S.	Predicting Emerging Trends on Social Media by Modeling it as Temporal Bipartite Networks	IEEE Access	10.1109/ACCESS.2020.2976134
128	Xu X., Sun W., Vivekananda G.N., Shankar A.	Achieving concurrency in cloud-orchestrated Internet of Things for resource sharing through multiple concurrent access	Computational Intelligence	10.1111/coin.12296
129	Eftekhari A., Ramanujam B.	Erratum: In pursuit of catalytic cathodes for lithium-oxygen batteries (Journal of Materials Chemistry A (2017) 5 (7710-7731) DOI: 10.1039/C7TA01124E)	Journal of Materials Chemistry A	10.1039/c9ta90301a
130	Prusty S.B., Seshagiri S., Pati U.C., Mahapatra K.K.	Sliding mode control of coupled tank systems using conditional integrators	IEEE/CAA Journal of Automatica Sinica	10.1109/JAS.2019.1911831
131	Saikrishnan V., Karthikeyan A., Beemkumar N., Ganesan S., Yuvarajan D.	The thermal performance analyses of the solar energy-powered thermal energy storage system with MgCl ₂ ·6H ₂ O as PCM	Journal of the Brazilian Society of Mechanical Sciences and Engineering	10.1007/s40430-019-2106-z
132	Singh K.S., Bhaskaran P.K.	Prediction of landfalling Bay of Bengal cyclones during 2013 using the high resolution Weather Research and Forecasting model	Meteorological Applications	10.1002/met.1850
133	Sitharthan R., Karthikeyan M., Sundar D.S., Rajasekaran S.	Adaptive hybrid intelligent MPPT controller to approximate effectual wind speed and optimal rotor speed of variable speed wind turbine	ISA Transactions	10.1016/j.isatra.2019.05.029
134	Singh M.M., Kumar H., Kumar G.H., Sivaiah P., Nagesha K.V., Ajay K.M., Vijaya G.	Determination of Strength Parameters of Glass Fibers Reinforced Composites for Engineering Applications	Silicon	10.1007/s12633-019-0078-3

a) List of Publications - SCI, SCIE, IEEE Journal Papers for the AY:2018-19

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1	Narasimha Murthy, K.V., Saravana, R., Rajendra, P.	Critical comparison of north east monsoon rainfall for different regions through analysis of means technique	Mausam	https://doi.org/10.54302/mausam.v69i3.331
2	Mathew, A., Khandelwal, S., Kaul, N.	Investigating spatio-temporal surface urban heat island growth over Jaipur city using geospatial techniques	Sustainable Cities and Society	10.1016/j.scs.2018.04.018
3	Mathew, A., Khandelwal, S., Kaul, N., Chauhan, S.	Analyzing the diurnal variations of land surface temperatures for surface urban heat island studies: Is time of observation of remote sensing data important?	Sustainable Cities and Society	10.1016/j.scs.2018.03.032
4	Kamakshi, K., Silva, J.P.B., Sekhar, K.C., Agostinho Moreira, J., Almeida, A., Pereira, M., Gomes, M.J.M.	Substrate Temperature Effect on Microstructure, Optical, and Glucose Sensing Characteristics of Pulsed Laser Deposited Silver Nanoparticles	Plasmonics	10.1007/s11468-017-0625-y
5	Amanulla, C., Wakif, A., Boulahia, Z., Suryanarayana Reddy, M., Nagendra, N.	Numerical investigations on magnetic field modeling for Carreau non-Newtonian fluid flow past an isothermal sphere	Journal of the Brazilian Society of Mechanical Sciences and Engineering	10.1007/s40430-018-1385-0
6	Babu, B.J., Egaas, B., Velumani, S.	Selenization of CIS and CIGS layers deposited by chemical spray pyrolysis	Journal of Materials Science: Materials in Electronics	10.1007/s10854-018-8916-4
7	Singh, V.K., Kumar, E.A., Saha, B.B.	Adsorption isotherms, kinetics and thermodynamic simulation of CO ₂ -CSAC pair for cooling application	Energy	10.1016/j.energy.2018.07.063
8	Singh, K.S., Bhaskaran, P.K.	Impact of lateral boundary and initial conditions in the prediction of Bay of Bengal cyclones using WRF model and its 3D-VAR data assimilation system	Journal of Atmospheric and Solar-Terrestrial Physics	10.1016/j.jastp.2018.05.007
9	Priyavarthini, S., Nagamani, C., Ilango, G.S., Rani, M.A.A.	An improved control for simultaneous sag/swell mitigation and reactive power support in a grid-connected wind farm with DVR	International Journal of Electrical Power and Energy Systems	10.1016/j.ijepes.2018.03.016
10	Dey, A., Pandey, K.M.	Wear behaviour of Mg alloys and their composites-a review	International Journal of Materials Research	10.3139/146.111707
11	Neetu, Singh, S., Rao, P.N., Jayaganathan, R., Midathada, A., Verma, K., Ravella, U.K.	Elevated corrosion in strain hardened Al-Mg alloy	Vacuum	10.1016/j.vacuum.2018.09.010
12	Chandra Sekhar, M., Purusottam Reddy, B., Prabhakar Vattikuti, S.V., Shanmugam, G., Ahn, C.-H., Park, S.-H.	Structural, Magnetic, and Catalytic Properties of Mn-Doped Titania Nanoparticles Synthesized by a Sol-Gel Process	Journal of Cluster Science	10.1007/s10876-018-1437-8

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13	Reddy, B.P., Sekhar, M.C., Prakash, B.P., Suh, Y., Park, S.-H.	Photocatalytic, magnetic, and electrochemical properties of La doped BiFeO ₃ nanoparticles	Ceramics International	10.1016/j.ceramint.2018.07.191
14	Koduru, H.K., Marinov, Y.G., Hadjichristov, G.B., Petrov, A.G., Godbert, N., Scaramuzza, N.	Polyethylene oxide (PEO) – Liquid crystal (E8) composite electrolyte membranes: Microstructural, electrical conductivity and dielectric studies	Journal of Non-Crystalline Solids	10.1016/j.jnoncrysol.2018.07.006
15	Sivaiah, P., Chakradhar, D.	Analysis and Modeling of Cryogenic Turning Operation Using Response Surface Methodology	Silicon	10.1007/s12633-018-9816-1
16	Murkute, P., Sushama, S., Ghadi, H., Saha, S., Chakrabarti, S.	Effects of phosphorus implantation time on the optical, structural, and elemental properties of ZnO thin films and its correlation with the 3.31-eV peak	Journal of Alloys and Compounds	10.1016/j.jallcom.2018.07.224
17	Reddy N.N.K., Ananda P., Verma V.K., Rahim Bakash K.	An assessment on electrical characterization of Ni/n-Si schottky rectifiers with and without Ta ₂ O ₅ interfacial oxide layer	Surface Review and Letters	10.1142/S0218625X19500732
18	Bhattacharya A., Roy B. , Caldeirinha R.F.S., Bhattacharjee A.K.	Low-profile, extremely wideband, dual-band-notched MIMO antenna for UWB applications	International Journal of Microwave and Wireless Technologies	10.1017/S1759078719000266
19	Hadjichristov G.B., Ivanov T.E., Marinov Y.G., Koduru H.K. , Scaramuzza N.	PEO-PVP-NaIO ₄ Ion-Conducting Polymer Electrolyte: Inspection for Ionic Space Charge Polarization and Charge Trapping	Physica Status Solidi (A) Applications and Materials Science	10.1002/pssa.201800739
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