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List of Publications 2024

SI No.	Authors	Title	Journal	Department	Article Type	Quartile	WoS
1	Seerangan Selvam, G., Dheivasigamani, T., Ammasai, K., Sthevan Kovil Pitchai, J.	Lutetium gallium garnet (Lu ₃ Ga ₅ O ₁₂): A potential material for supercapacitor and pesticide detection applications	Journal of Alloys and Compounds	Physics / Chemistry	Journal	Q1	WoS
2	Madesh, P., Arumugam, H., Krishnasamy, B., Muthukaruppan, A.	Synthesis of sustainable curcumin based photo-crosslinkable benzoxazines: Thermal, hydrophobic and anti-corrosion properties	Journal of Molecular Structure	Chemistry	Journal	Q2	WoS
3	Nagaraja, K.C., Rajeshkumar, G., Sanjay, M.R., Siengchin, S.	Influence of stacking sequence and halloysite addition on the fracture toughness and low-velocity impact strength of carbon/glass fiber reinforced hybrid composites	Polymer Composites	Mechanical	Journal	Q1	WoS
4	Krishnan, A., Kanniyappan, P., Vaithilingam, S., Govindraj, L., Muthukaruppan, A.	Bio-polymer based thermally stable composites as catalytic support materials for energy harvesting process	International Journal of Hydrogen Energy	Chemistry	Journal	Q1	WoS
5	Jawaid, M., Senthilkumar, K., Chandrasekar, M., Fouad, H., Hashem, M., Ismail, A.S., Khiari, R., Singh, B.	Investigating the Effect of Varied Short Bamboo Fiber Content on the Thermal, Impact, and Flexural Properties of Green Epoxy Composites	Journal of Natural Fibers	Mechanical	Journal	Q2	WoS
6	Divyah, N., Prakash, R., Srividhya, S.	Infilled steel tubes as reinforcement in lightweight concrete columns: An experimental investigation and image processing analysis	Computers and Concrete	Civil	Journal	Q1	WoS
7	Sthevan Kovil Pitchai, J., Shunmughanathan, B., Shanmugam, P., Seerangan Selvam, G., Muthukaruppan, A., Dheivasigamani, T., Periyasamy, S.	Enhanced asymmetric supercapacitor device performance of graphene templated β -Bi ₂ -xEu _x Mo ₂ O ₉ nano self-assembly	Journal of Electroanalytical Chemistry	Physics / Chemistry	Journal	Q2	WoS
8	Hariharan, S., Marimuthu, U., Sundaresan, T., Shanmugam, S.K., Radhakrishnan, R.G., Mierzwinshi, D., Walter, J.	Wire Electric Discharge Machining of Aluminium Hybrid Composite: Renewable Energy Based IoT Approach	Journal of Current Science and Technology	Mechanical	Journal	Q4	
9	Ramya Devi, M., Lokesh, S.	Intelligent accident detection system by emergency response and disaster management using vehicular fog computing	Automatika	AIDS	Journal	Q2	WoS
10	Appasamy, S., M, G., Krishnasamy, B., Ramachandran, S., Muthukaruppan, A.	Vanillin derived partially bio-based benzoxazine resins for hydrophobic coating and anticorrosion applications: Studies on syntheses and thermal behavior	Polymer-Plastics Technology and Materials	Chemistry	Journal	Q2	WoS
11	Kuruvila, R., Sundaresan, T.K., Ahmed, F., Marimuthu, U.	Electrochemical Corrosion Behavior of Thermally Sprayed Nichrome Coating on Duplex Stainless Steel	Journal of Testing and Evaluation	Mechanical	Journal	Q3	WoS
12	Aravind, D., Krishnasamy, S., Rajini, N., Siengchin, S., Kumar, T.S.M., Chandrasekar, M., Yorseng, K.	Thermal and tensile properties of 3D printed ABS-glass fibre, ABS-glass fibre-carbon fibre hybrid composites made by novel hybrid manufacturing technique	Journal of Thermoplastic Composite Materials	Mechanical	Journal	Q2	WoS
13	Srinivasan, H., Saravanan, P., Madesh, P., Krishnasamy, B., Arumugam, H., Muthukaruppan, A.	Synthesis and characterization of cardo-tetrafunctional hydrophobic polybenzoxazine composites for low-k application	Polymer Bulletin	Chemistry	Journal	Q2	WoS
14	Selvakumar, K., Lokesh, S.	A cryptographic method to have a secure communication of health care digital data into the cloud	Automatika	AIDS	Journal	Q2	WoS
15	Sangeetha, V., Devasena, M., Nambi, I.M., Dwarakanathan, S.	Crystallization of struvite family crystals from cow urine: analysis, characterization, and effects of crystallization method, retention time, rate of mixing, and competing ions	Biomass Conversion and Biorefinery	Civil	Journal	Q3	WoS
16	Arumugam P., Ramalingam V.	Thermal comfort enhancement of office buildings located under warm and humid climate through phase change material and insulation coupled with natural ventilation	Sustainable Energy Technologies and Assessments	Mechanical	Journal	Q1	WoS
17	Periasamy D., Manoharan B., Niranjana K., Aravind D., Krishnasamy S., Natarajan V.	Recycling of thermoset waste/high-density polyethylene composites: Examining the thermal properties	Polymer Composites	Mechanical	Journal	Q1	WoS
18	Chakraborty D., Kaleemulla S.	Structural and photocatalytic properties of magnesium and aluminum co-doped zinc ferrite nanoparticles synthesized by co-precipitation method	AIP Conference Proceedings	Physics	Conference		
19	John Peter Antony J.J.B., Arunachalam V., Krishnasamy S., Mavinkere Rangappa S., Siengchin S.	A correlation study on piezo-embedded carbon fibre reinforced polylactic acid composite: Experimental and numerical modelling	Journal of Thermoplastic Composite Materials	Mechanical	Journal	Q2	WoS
20	Samy G.S., Pethuraj M., Thirumalai Kumaran S., Kalusuraman G.	SOLID PARTICLE AIRJET EROSION AND CORROSION BEHAVIOR OF AA6063 ALUMINUM ALLOY	Surface Review and Letters	Mechanical	Journal	Q3	WoS
21	Ganesh C., Shanmugasundaram R., Iqbal M.M., Gunapriya B., Singaravelan A.	Designing Compensators for Reduced Order Systems Using Genetic Algorithms	Lecture Notes in Electrical Engineering	EEE	Conference		
22	Seshu Chakravarthy T., Selvaraj L.	HIKS: A K-shell-weighted hybrid approach method for detecting influential nodes in complex networks using possible edge weights	International Journal of Communication Systems	AIDS	Journal	Q2	WoS

23	Rajkumar V., Ajay Vasanth X., Rajesh Kannan A., Siva Shanmugam N.	Some studies on optimization of process parameters for wire ARC additive manufacturing of Hastelloy C276 using GRA-GWO hybrid techniques	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Mechanical	Journal	Q3	WoS
24	Kumaravel A., Sathyamoorthi S.	A Comprehensive Review of Neonicotinoids: Recent Developments in Electrochemical Detection	Environmental Engineering Science	Chemistry	Journal	Q3	WoS
25	Madesh P., Krishnasamy B., Arumugam H., Muthukaruppan A.	Role of magnolol embedded fully bio-based benzoxazines for hydrophobic, anti-microbial and anti-corrosion applications	New Journal of Chemistry	Chemistry	Journal	Q2	WoS
26	Lawan I., Argunam H., Okhawilai M., Ahn C.-H., Rimdusit S.	Bio-based treatment of hemp fiber for use as reinforcement of a composite: An effort towards development of green and sustainable polybenzoxazine brake pad	Tribology International	Chemistry	Journal	Q1	WoS
27	Selvaraj V., Swarna Karthika T., Mansiya C., Alagar M.	Mechanically robust, fluoride free, bio-inspired and facile fabrication strategy of bio-material coated superhydrophobic cotton fabrics for environmental applications	Progress in Organic Coatings	Chemistry	Journal	Q1	WoS
28	Srinivasan D., Ramachandran S., Kannadasan K., Muthukaruppan A., Ismail A.A.M.	Production of engineered stone from waste foundry sand using epoxy-phenalkamine binder	Construction and Building Materials	Chemistry / Civil	Journal	Q1	WoS
29	Swaminathan G., Sampath V., Santosh S.	Effect of cobalt addition on thermal cycling behaviour of Ti50Ni(50-x)cox shape memory alloys	Physica Scripta	Mechanical	Journal	Q3	WoS
30	Ramasamy K., Sundaramurthy A., Vaithiyalingam C.	Certain performance analysis of Islanded microgrid systems stability through biologically activated engineering optimization technique	Journal of Intelligent & Fuzzy Systems	Maths	Journal	Q3	WoS
31	Mohamed Mydeen K., Krishnasamy B., Arumugam H., Saravana Mani K., Muthukaruppan A.	Sustainable Strategies for Fully Biobased Polybenzoxazine Composites from Trifunctional Thymol and Biocarbons: Advancements in High-Dielectric and Antibacterial Corrosion Implementations	ACS Sustainable Chem. Eng.	Chemistry	Journal	Q1	WoS
32	Dhandapani A., Krishnasamy S., Thiagamani S.M.K., Periasamy D., Muthukumar C., Sundaresan T.K., Ali S., Kurniawan R.	Evolution, Prospects, and Predicaments of Polymers in Marine Applications: A Potential Successor to Traditional Materials	Recycling	Mechanical	Journal	Q2	WoS
33	Lawan I., Luengrojanakul P., Charoensuk K., Argunam H., Ahn C.-H., Rimdusit S.	Improvements in properties of polybenzoxazine-based laser-induced graphene (LIG) by alloying with polyimide and modeling of production process	Nanoscale Advances	Chemistry	Journal	Q1	WoS
34	Paruthipulli Kalarikkal R.M., Subbaiah J.	Modified Dual EKF with Machine Learning Model for Fouling Prediction of Industrial Heat Exchanger	Korean Journal of Chemical Engineering	ECE	Journal	Q2	WoS
35	Karunanidhi B., Ramasamy L., Alexander Stonier A., Sathiasamuel C.R.	Development of a Digital Twin Framework for a PV System to Resolve Partial Shading	Mathematical Problems in Engineering	EEE	Journal	Q2	
36	Arshad M.N., Thiagamani S.M.K., Jeyaguru S., Muthukumar C., Krishnasamy S., Subramaniam J., Khan A., Althomali R.H.	Experimental investigation on the mechanical and acoustic performance of hemp/kenaf hybrid composites: Influence of different stacking sequences	Polymer Composites	Mechanical	Journal	Q1	WoS
37	Sreemahadevan S., Vidya G.	A case study on the comparison of teaching-learning and performance evaluation methods applied to engineering students	Education and Information Technologies	CSE	Journal	Q1	WoS
38	Natarajan E., Sekar T., Markandan K., Nesappan S., Selvaraj A.D.A., Sekar S.M.	Structural integrity and mechanical behaviour of magnesium oxide (MgO) as reinforcement in PLA-HDPE composite	Emergent Materials	Mechanical	Journal	Q2	WoS
39	Ganesan S., Vedamanickam S., Huchappa A.S.	Influence of applied stress on shape memory characteristics of Ni50Ti45Cu5 (at.%) alloy subjected to thermomechanical cycling	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	Mechanical	Journal	Q2	WoS
40	Madesh P., Krishnasamy B., Arumugam H., Muthukaruppan A.	Bio-based benzoxazine composites derived from magnolol: Promising solution for sustainable alternatives for dielectric and superhydrophobic applications	Polymer Composites	Chemistry	Journal	Q1	WoS
41	S Anita, Tiju Thomas	Entropy Generation and Heat Transfer performance of cylindrical tube heat exchanger with perforated conical rings: A Numerical Study	Heat Transfer Research	Maths	Journal	Q3	WoS
42	V R., Shanmugam N.S., Kumar N.P., Kumar K.K., Kannan A.R.	Microstructure, mechanical properties, and corrosion behaviour of wire arc additive manufactured martensitic stainless steel 410 for pressure vessel applications	International Journal of Pressure Vessels and Piping	Mechanical	Journal	Q2	WoS
43	Mohamed Mydeen K., Ramachandran S., Krishnasamy B., Muthukaruppan A.	Studies on catalyst assisted low-temperature curing of benzoxazines	Reactive and Functional Polymers	Chemistry	Journal	Q1	WoS
44	Ponnusamy P., Panthalingal M.K., Badhirappan G.P., Pullithadathil B.	Durable Electrocatalyst Support Materials Based on N-Doped Mesoporous Carbon Nanofibers with Titanium Nitride Overlay Coating for High-Performance Proton Exchange Membrane Fuel Cells	ACS Applied Nano Materials	Mechanical	Journal	Q1	WoS
45	Appasamy S., Krishnasamy B., Arumugam H., Muthukaruppan A.	Unlocking the Potential of Resveratrol-Derived Trifunctional Photosensitive Benzoxazines for Superhydrophobic, Low Dielectric and Photoluminescence Applications	Journal of Polymers and the Environment	Chemistry	Journal	Q1	WoS
46	Kurniawan R., Chen S., Xu M., Teng H., Chen J., Ali S., Han P.-W., Kiswanto G., Kumaran S.T., Ko T.J.	Understanding the mechanism of ultrasonic vibration-assisted drilling (UVAD) for micro-hole formation on silicon wafers using numerical and analytical techniques	International Journal of Advanced Manufacturing Technology	Mechanical	Journal	Q1	WoS
47	Aramuthakannan S., Kumar R.R., Mariammal G., Geetha M.	Enhanced Cluster Head Selection and Routing in Wireless Sensor Networks Using Fuzzy Logic and Adaptive Cat Swarm Optimization	International Journal of Intelligent Engineering and Systems	Maths	Journal	Q3	
48	Aramuthakannan S., Lokesh S., Devi M.R., Manimegalai R., Rajaram A.	DETECTION OF BRAIN TUMORS USING SURROGATE-ASSISTED HIGHLY COOPERATIVE HYPERPARAMETER OPTIMISATION APPROACH	Journal of Environmental Protection and Ecology	Maths / CSE / AI&DS	Journal	Q3	

49	Madesh P., Ramachandran S., Krishnasamy B., Muthukaruppan A.	Synthesis of a new type of bisphenol-BC-based benzoxazines from sustainable bio-phenol for hydrophobic, dielectric and corrosion-resistant applications	Journal of Macromolecular Science, Part A: Pure and Applied Chemistry	Chemistry	Journal	Q2	WoS
50	Rajaganapathi R., Mahendran R., Sivaganesan D., Vadivel M.R., Joel M.R., Kannan V.	An IoT enabled computational model and application development for monitoring cardiovascular risks	e-Prime - Advances in Electrical Engineering, Electronics and Energy	CSE	Journal	**	**
51	Krishnan A., Ramachandran S., Govindaraj L., Muthukaruppan A.	Card-bisphenol based bio-silica reinforced poly(urethane-co-benzoxazine) foam for an electrical insulation	Journal of Environmental Chemical Engineering	Chemistry	Journal	Q1	WoS
52	Jayakumar N., Arumugam H., Albert Selvaraj A.D.	Mechanical behaviour of the post processed 3D printed PLA parts using polar and non-polar solvents	Polymer Bulletin	Mech / Chem	Journal	Q2	WoS
53	Manimegalai R., Yashik S., Renuka S., Gomathi B.	Automation manufacturing using MES	AIP Conference Proceedings	CSE	Conference	**	**
54	Rathinavel N., Aleem A., Murugesan A.	Unveiling the promise of phase change materials in geopolymer composites: A comprehensive review	Next Generation Materials for Sustainable Engineering	Civil	Book Chapter		
55	Suresh S., Natarajan E., Mohan D.G., Ang C.K., Sudhagar S.	Depriving friction stir weld defects in dissimilar aluminum lap joints	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Mechanical	Journal	Q3	WoS
56	Hariharan, S., Marimuthu, U., Sundaresan, T.K., Shanmugam, S.K., Radhakrishnan, R.K.G., Mierzwiński, D., Walter, J.	Optimization of AA6351-SiC-B4C Hybrid Composites in Wire EDM Using Grey Relation Technique	Mechanics of Advanced Composite Structures	Mechanical	Article	Q3	**
57	Thalthodi, M.S., Sahadevan, J., Sasikumar, R., Muthu, S.E., Padmanathan, N.	Bio-extract mediated green synthesis of bi-functional ammonium cobalt phosphate nanoflakes electrode/catalyst for supercapattery and ethanol oxidation	Inorganic Chemistry Communications	Chemistry	Article		WoS
58	Divyah, N., Devasena, M.	Enhanced self-healing of micro-cracks in concrete using graphene oxide encapsulated sodium alginate microcapsules: microstructure, elemental, and oxide composition analysis	Journal of Building Pathology and Rehabilitation	Civil	Article	Q2	WoS
59	Anandkumar, M., Kannan, P.K., Sudarsan, S., Uchaev, D.A., Trofimov, E.A.	Reusable high-entropy oxide environmental photocatalyst towards toxic Cr(VI) reduction with tailored bandgap via solution combustion synthesis	Advanced Powder Technology	Physics	Article	Q1	WoS
60	Chandrasekar, M., Senthilkumar, K., Fouad, H., Jawaid, M., Hashem, M., Ismail, A.S., Saba, N., Khiari, R.	Influence of fibre loading on the density, voids, dimensional resilience, tensile characteristics and thermomechanical behaviour of bamboo fibre and bio-epoxy composites	Polymer International	Mechanical	Article	Q2	WoS
61	Krishnasamy, S., Untrakul, T., Chandrasekar, M., Senthil Muthu Kumar, T., Parameswaranpillai, J., Mohit, H., Aravind, D., Rajini, N., Siengchin, S., Natarajan, V.	Analysis of the thermal properties in short sansevieria cylindrica fibre/PLA composites processed by twin screw extruder followed by hot press molding technique	Materials Research Express	Mechanical	Article	Q2	WoS
62	John, V.J., Dharmar, B., Nagarajan, D.	Gamma radiation shielding properties of steel, basalt, and steel-basalt hybrid fiber reinforced copper slag concrete	Innovations and Applications of Fiber-Reinforced Concrete	Civil	Book Chapter		
63	Ajay Vasanth, X., Sam Paul, P., Lawrance, G., Rajkumar, V., Senthilkumar, K.	Characterization of Enhanced Magnetorheological Fluid Damper and Its Influence on Sustainable Hard Turning of SS410	SAE Technical Papers	Mechanical	Conference Paper		
64	Balakrishnan, S., Senthilkumar, K., Rajkumar, V., Jerold John Britto, J.	Proposal for Gemba-Kaizen Implementation to Enhance Efficiency in the Medium-Scale Bus Body Fabrication Industry	SAE Technical Papers	Mechanical	Conference Paper		
65	Rahul, R., Seerangan Selvam, G., Moorthy Babu, S., Muthukaruppan, A., Bhoopathi, G., Nanthakumar, S., Dheivasigamani, T.	Phase transition influenced photocatalytic dye degradation capability of pure and Eu-doped CoMoO4 polymorphic nanostructures	Phase Transitions	Phy / Mech / Chem	Article	Q3	WoS
66	Vijay, J.A., Gomathi, B., Mythily, M., David, B.	Deep Learning-Based Smart Healthcare System for Patient's Discomfort Detection	Deep Learning for Smart Healthcare: Trends, Challenges and Applications	CSE	Book Chapter		
67	Anuf, A.R., Ramaraj, K., Sivasankarapillai, V.S., Dhanusuraman, R., Maran, J.P., Rajeshkumar, G., Rahdar, A., Diez-Pascual, A.M.	Corrigendum to "Optimization of electrocoagulation process for treatment of rice mill effluent using response surface methodology" [J. Water Process Eng., volume 49 (October 2022) 103074] (S2214714422005189), (10.1016/j.jwpe.2022.103074)	Journal of Water Process Engineering	Mechanical	Erratum	Q1	WoS
68	Subash Kumar, C.S., Ravikrishna, S., Rajasekar, P., Venkatesan, M.	Prognostic Real Time Analysis of Induction Motor	International Journal of Robotics and Control Systems	EEE	Article	Q4	**
69	Ganesh, V.N., Prathapa Reddy, S.L., Banumathi, S., Acharjee, P.B., Basha, H.A., Kumar, S.S., Rajaram, A.	EFFICIENT NON-DEGRADABLE WASTE PROCESSING TECHNOLOGIES INTEGRATED WITH MANETS FOR SUSTAINABLE WASTE MANAGEMENT MODELS	Journal of Environmental Protection and Ecology	Civil	Article	Q3	**
70	Veeraiah, V., Karthiga, B., Akram, C.M., Koujalagi, A., Nanthakumar, S., Sharma, V., Pandey, D.	Role of Artificial Intelligence in Making Wearable Robotics Smarter	Robotics and Automation in Industry 4.0: Smart Industries and Intelligent Technologies	Mechanical	Book Chapter		
71	Nallasivan, G., Karpagam, T., Geetha, M., Sankarasubramanian, R.S., Kannan, R., Bhuvanesh, A., Poojitha, G.	Security and Privacy Considerations in Multimedia Resource Management Using Hybrid Deep Learning Techniques in Cloud Computing	International Journal of Intelligent Engineering and Systems	Maths	Article	Q2	**
72	Kuruvila, R., Thirumalai Kumaran, S., Kurniawan, R.	Optimization of solid particle erosion behavior of thermally sprayed nichrome on duplex stainless steel	International Journal on Interactive Design and Manufacturing	Mechanical	Article	Q2	WoS

73	Thirumalai Kumaran, S., Ko, T.J.	Sustainable Machining and Green Manufacturing	Sustainable Machining and Green Manufacturing	Mechanical	Book		
74	Thirumalai Kumaran, S., Ko, T.J.	Preface	Sustainable Machining and Green Manufacturing	Mechanical	Editorial		
75	Suresh Kumar, S., Thirumalai Kumaran, S., Kalusuraman, G., Samy, G.S.	Electrical Discharge Machining of Al-B4C Composite for Biomedical Applications	Sustainable Machining and Green Manufacturing	Mechanical	Book Chapter		
76	Viswanathan, T., Gunapriya, B., Mathankumar, M., Suryaprakash, S., Iqbal, M.M.	Operation and Control of EV Infrastructure for Microgrid	Microgrids for Commercial Systems	Mechanical	Book Chapter		
77	Kumaravel, A., Sathyamoorthi, S.	High-voltage aqueous electrolyte-based supercapacitor using biocarbon derived from Pedalium murex waste with commercial-level areal mass loading	Ionics	Chemistry	Article	Q2	WoS
78	Anitha, S.	CFD approach to analyze entropy generation, heat transfer of perforated conical ring turbulators embedded in heat exchanger with biological ternary hybrid nanofluid	Numerical Heat Transfer, Part B: Fundamentals	Maths	Article	Q4	WoS
79	Saravanakumar, S., Kapilan, S., Ravikumar, P., Rajeshkumar, G., Janarthanan, P.	Effect of fish scale powder addition on the mechanical and free vibration properties of jute/carbon fibers reinforced hybrid polyester composites	Polymer Composites	Mechanical	Article	Q1	WoS
80	Srinivasan, H., Arumugam, H., Krishnasamy, B., Mani, K.S., Muthukaruppan, A.	High-potent trifunctional polybenzoxazines coatings for superhydrophobic cotton fabrics and mild steel corrosion protection applications	Journal of Applied Polymer Science	Chemistry	Article	Q2	WoS
81	Vasanth, X.A., Paul, P.S., Lawrance, G.	Evaluating the impact of electromagnetic effects on randomized and pre-structured smart silicone magneto-rheological damper in hardened steel turning operations	Multiscale and Multidisciplinary Modeling, Experiments and Design	Mechanical	Article	Q3	WoS
82	Suresh, S., Muthulakshmi, M., Bhuvanesh, A., Sankarasubramanian, R.S., Rajendran, S., Jeyamurugan, J.	Identifying the Optimal Size of a Hybrid Power System Using a Modified Genetic Algorithm	2nd International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT 2024	Maths	Conference Paper		
83	Ponnuswamy, P., Palaniappan, S.C.	Prediction of wind energy location by parallel programming using MPI-based KMEANS clustering algorithm	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	CSE	Article	Q3	WoS
84	Govarthanambikai, K., Sathyanarayan Sridhar, R.	Prioritization of watershed using morphometric parameters through geospatial and PCA technique for Noyyal River Basin, Tamil Nadu, India	Journal of Water and Climate Change	Civil	Article	Q2	WoS
85	Thiruchelva, S.R., Chandran, S., Kumar, V., Chandramohan, K.	Assessment of land use and land cover dynamics and its impact in direct runoff generation estimation using SCS CN method	Acta Geophysica	Civil	Article	Q2	WoS
86	Balakrishnan, S., Natrayan, M., Senthilkumar, K., Rajkumar, V.	Evaluation of Coated and Uncoated Inserts of the Cutting Tool for Improved Machinability of Inconel 825 Alloy	SAE Technical Papers	Mechanical	Conference Paper		
87	Kotikam, G., Selvaraj, L.	Golden eagle based improved Att-BiLSTM model for big data classification with hybrid feature extraction and feature selection techniques	Network: Computation in Neural Systems	AIDS	Article	Q3	WoS
88	Selvaraj, K., Spontón, M.E., Arumugam, H., Kannaiyan, S.K., Ayyavu, C., Casarino, A.F., Estenoz, D.A., Al-Lohedan, H., Kumar, M., Balu, R., Kannaiyan, D.	Synthesis of new quinoline derivatives based on mono-functional polybenzoxazines for oil-water separation, anti-corrosion and antibacterial applications	Composite Interfaces	Chemistry	Article	Q2	WoS
89	Sathiyathan, M., Jaganathan, S.	Stability analysis of improved combined-mode power converter and power flow control using FPGA	International Journal of Electronics	EEE	Article	Q3	WoS
90	Shanmugam P., Sthevan Kovil Pitchai J., Dheivasigamani T.	Phase stability optimization of praseodymium gallium oxide (Pr4Ga2O9) self-assembled nanostructures for supercapacitor and photocatalytic applications	Journal of Energy Storage	Physics	Article	Q1	WoS
91	Srinivasan D., Ramachandran S., A A.D., Mohamed Ismail A.A., Muthukaruppan A.	Valorization of waste foundry sand by squeezing with sustainable cardanol-starch modified binder for engineered stone	Innovative Infrastructure Solutions	Chem / Civil / Mech	Article	Q2	WoS
92	Sivaram H., Selvakumar D., Kumar S.A., Laroze D.	Enhanced electrochemical properties of PbO-rGO nanocomposite prepared by wet chemical method for supercapacitor applications	Nano-Structures and Nano-Objects	ECE	Article	Q2	**
93	Baskaran J., Naghapushanam M., Ganapathy M., Meena P., Meena V.P., Azar A.T., Hameed I.A.	Cost-effective high-gain DC-DC converter for elevator drives using photovoltaic power and switched reluctance motors	Frontiers in Energy Research	EEE	Article	Q2	WoS
94	Appasamy S., Shanmugam K., Krishnasamy B., Arumugam H., Muthukaruppan A.	Hybrid benzoxazines from natural bio-phenolics for enhanced thermal stability and hydrophobicity: a study on vermiculite reinforced composites with low dielectric constant	International Journal of Polymer Analysis and Characterization	Chemistry	Article	Q3	WoS
95	Balasuadhakar A., Kumaran S.T., Uthayakumar M.	Machine learning models for enhanced cutting temperature prediction in hard milling process	International Journal on Interactive Design and Manufacturing	Mechanical	Article	Q2	WoS
96	Deepa M., Susithra N., Santhanamari G., Reba P.	Leveraging Agile Framework for a Project Based Learning Environment in Embedded Systems Design Course	Journal of Engineering Education Transformations	ECE	Article	Q4	**
97	Rangaraj V.M., Devaraju S., Reddy T.G., Zafer H., Anjum D.H., Mittal V.	MOF-derived Co3O4@P-doped carbon nitride/ α -Fe2O3 nanocomposite as a dual Z-scheme photocatalyst for persulfate mediated Bisphenol-A degradation	Materials Research Bulletin	Chemistry	Article	Q1	WoS
98	Kalaiselvan K., Saravanan R., Adhavan B., Manikandan G.S.	Hybrid methodology-based energy management of microgrid with grid-isolated electric vehicle charging system in smart distribution network	Electrical Engineering	EEE	Article	Q2	WoS

99	Chandramouleeswaran G., Deivanayagam Pillai N., Ramasamy S., Pudupalayam Sachithanandam M., Iqbal M.M.	An effective controller design strategy for higher order systems	JVC/Journal of Vibration and Control	EEE	Article	Q2	WoS
100	Baranidharan K., Kumaran S.T., Uthayakumar M., Parameswaran P.	Optimization modelling of spark plasma sintering parameters of SS316-B4C composite	International Journal on Interactive Design and Manufacturing	Mechanical	Article	Q3	WoS
101	Selvi C.T., Subramaninan R.S.S., Aparna M., Dhanushree V.M., Deepak	Facial Emotion Recognition Using Deep Learning	Communications in Computer and Information Science	Maths	Conference Paper		
102	Kumar N.V., Uthayakumar M., Kumaran S.T., Velayudham A.	Failure assessment of armour grade tensile weld specimen: experimental, computational and analytical approach	Multiscale and Multidisciplinary Modeling, Experiments and Design	Mechanical	Article	Q3	WoS
103	Mohamed Mydeen K., Krishnasamy B., Arumugam H., Muthukaruppan A.	Eco-friendly bio-based polybenzoxazine composites derived from sustainable thymol: A versatile approach and multifaceted study for enhanced applications	Journal of Polymer Science	Chemistry	Article	Q1	WoS
104	Chandrababu V., Parameswaranpillai J., Gopi J.A., Pathak C., Midhun Dominic C.D., Feng N.L., Krishnasamy S., Muthukumar C., Hameed N., Ganguly S.	Progress in food packaging applications of biopolymer-nanometal composites — A comprehensive review	Biomaterials Advances	Mechanical	Article	Q1	WoS
105	Moniruzzaman M., Reddy G.R., Ramachandran T., Kumar Y.A., Bajaber M.A., Alalwiat A.A., Joo S.W.	Sodium symphony: Crafting the future of energy storage with sodium-ion capacitors	Journal of Energy Storage	Physics	Review	Q1	WoS
106	Jauhar R.O.M.U., Raja A., Rajkumar R., Arulraj A., Almansour A.I., Deepapriya S., Era P., Senthilpandian M., Ramachandran T., Mangalaraja R.V., Siva V.	Thermoelectric potential: role of bismuth in CuSb1-xBixSe2 for improved transport properties	Journal of Materials Science: Materials in Electronics	Physics	Article	Q2	WoS
107	Thiagamani S.M.K., Yaswanth C.V., Yashwanth C., Tran T.M.N., Krishnasamy S., Azhaguchamy M., Khan A., Hashem M., Fouad H.	Characterization of Syzygium cumini (L.) Skeels (Jamun Seed) Particulate Fillers for Their Potential Use in Polymer Composites	Molecules	Mechanical	Article	Q2	WoS
108	Mohanraj D., Vijayakumar P., Kiruthiga V., Jadhav D., Mohana Krishna I., Nanthakumar S.	Examining the Combination of a Parabolic Solar Collector with Phase Change Material (PCM) in Solar Distillation	E3S Web of Conferences	Mechanical	Conference Paper		
109	Manimegalai R., Megadarshini V., Ayesha S.K., Gomathi B.	Zero Watermarking and Data Authentication	EAI/Springer Innovations in Communication and Computing	CSE	Conference Paper		
110	Senthilkumar M., Prabhu S., Arun Kumar U., Krishnakumar R.	EV charging and fuel cell vehicle refuelling with distributed energy resources using hybrid approach	Environment, Development and Sustainability	EEE	Article	Q2	WoS
111	Pavithra M., Archana D., Kanikha M., Kavin B., Kanishkar Rohith G., Haritha S.	An Automated Hybrid Fusion Network for Poisson Noise Reduction in X-Ray Osteoarthritis Images	2024 International Conference on Communication, Computing and Internet of Things, IC3IoT 2024 - Proceedings	EEE'	Conference Paper		
112	Pavithra M., Radhika C., Annapoorani B.T., Senthil T., Karthikeyan J., Archana D.	Boundary Confusion Alleviation and Multiscale-temporal Feature Extraction for VAG-based Fine-grained Multi-grade Osteoarthritis Deterioration Monitoring	2024 International Conference on Communication, Computing and Internet of Things, IC3IoT 2024 - Proceedings	EEE	Conference Paper		
113	Gomathi B., Manimegalai R., Noor Mohamad S.K., Jegan G.V.S.R., Venkateshwaran M.	Evolvable Hardware Using Genetic Algorithm	EAI/Springer Innovations in Communication and Computing	CSE	Conference Paper		
114	Pavithra M., Archana D., Tamilkumaran A., Sneka Varshini V., Sree Sakthi J., Suhash E.	Enhanced Framework for Concurrent correction and Segmentation in Retinal Optical Coherence Tomography	2024 International Conference on Communication, Computing and Internet of Things, IC3IoT 2024 - Proceedings	EEE	Conference Paper		
115	Rao D.P., Krishnasamy V.D., Selvaraju M., Sundramurthy V.P., Kandavalli S.R., Chitra M.S., Sivasamy N., Thirumoorthy P.	Adsorptive removal of cadmium from electroplating wastewater using hybrid composite of thiol-grafted seed gum of Tamarindus indica and Teff hay biocarbon	Zeitschrift fur Physikalische Chemie	Mechanical	Article	Q2	WoS
116	Girisha L., Saravanan R., Kumarasan T., Pitchandi P., Sakthi S., Nanthakumar S., Girimurugan R.	Hemp Fibre-Reinforced Polylactic Acid Composites: A Sustainable Materials for Engineering and Industry	Engineering Materials	Mechanical	Book Chapter		
117	Kumaravel A., Aishwarya S., Sathyamoorthi S.	Emerging Technologies for Sensitive Detection of Organophosphate Pesticides: A Review	Current Analytical Chemistry	Chemistry	Review	Q3	WoS
118	Anil Kumar Y., Sana S.S., Ramachandran T., Assiri M.A., Srinivasa Rao S., Kim S.C.	From lab to field: Prussian blue frameworks as sustainable cathode materials	Dalton Transactions	Physics	Review	Q1	WoS
119	Loganathan N., Selvanayakam A., Anbarasu P., Senthilkumar M.	DEVELOPMENT OF A PENETRATION MONITORING AND REPELLENT METHOD FOR WILD ANIMALS USING YOLOV3, OPENCV, AND PYTHON	African Journal of Biological Sciences (South Africa)	EEE	Article	Q4	
120	Sripriyan, K., Karthigha, M.	Influence of granite micro particles on the mechanical, damping and antimicrobial properties of silk-sisal hybrid composites	Scientific Reports	CSE	Article	Q1	WoS
121	Kumar, Y.A., Vignesh, S., Ramachandran, T., Kumar, K.D., Al-Sehemi, A.G., Moniruzzaman, M., Oh, T.H.	Solidifying the future: Metal-organic frameworks in zinc battery development	Journal of Energy Storage	Physics	Article	Q1	WoS

122	Anandkumar, M., Kannan, P.K., Sudarsan, S., Trofimov, E.A.	High-entropy oxide (CeGdHfPrZr)O ₂ nanoparticles as reusable photocatalyst for wastewater remediation	Surfaces and Interfaces	Physics	Article	Q1	WoS
123	Srinivasan, D., Ramachandran, S., Murugesan, A., Muthukaruppan, A., Ismail, A.A.M.	Airfield flexible pavement using waste foundry sand and water-based VAE copolymer binder – studies on mechanical, thermal and weathering effect	Innovative Infrastructure Solutions	Civil / Chem	Article	Q2	WoS
124	Selvakumar, M., Maruthamuthu, S., Saravanakumar, B., Tony Dhiwahar, A.	Design of zinc-doped copper ferrite nanostructures using microwave combustion process and its supercapacitive features	Journal of Materials Science: Materials in Electronics	Physics	Article	Q2	WoS
125	Aslan, M., Cava, K., İpek, H., Kumaran, S.T., Kalusuraman, G., Uthayakumar, M., Prakash, C.	Surface and Mechanical Properties of 3D-Printed Biocompatible ABS Polymers	Journal of Materials Engineering and Performance	Mechanical	Article	Q2	WoS
126	Giriprasath, K.S., Pandiyarajan, P., Santhosh, C., Aneesh, K., Vasanth, R.	Revolutionizing drug development: Navigating the convergence of artificial intelligence and pharmaceutical innovation	Analyzing Explainable AI in Healthcare and the Pharmaceutical Industry	CSE	Book Chapter		
127	Kumaravel, A., Sathyamoorthi, S.	Carbon nanotubes-based sensors to detect environmental contaminants	Nanotechnology-Based Sensors for Detection of Environmental Pollution	Chemistry	Book Chapter		
128	Karthik, S., Anandaraj, S., Govarthanambikai, K., Shaniya, S., Alex Livingston Raja, A., Anandakumar, S.	Investigating the Influence of Lemon Grass Root on Soil Stability and Slope Erosion: A Case Study in the Nilgiris District	Journal of Environmental Nanotechnology	Civil	Article	Q3	
129	Srinivasan, H., Arumugam, H., M.I, A.A., Muthukaruppan, A.	A novel leucoaurin based trifunctional polybenzoxazines coated hydrophobic cellulose paper for packaging application	Cellulose	Chem / Civil	Article	Q1	WoS
130	Ranjith Kumar, M.G., Parvathikumar, G., Arunkumar, G.E., Rajeshkumar, G.	Characterization of fly ash-based geopolymer composites reinforced with biomass-derived Phoenixsp. fibers	Biomass Conversion and Biorefinery	Mechanical	Article	Q2	WoS
131	Senthilkumar, K., Chandrasekar, M., Jawaid, M., Fouad, H., Abu-Jdayil, B.	Enhancing the Bio-epoxy Composites with Oil Palm Fibre as Reinforcement: Assessment of Mechanical, Physical and Thermal Properties	Journal of Polymers and the Environment	Mechanical	Article	Q1	WoS
132	Saranya, S., Channarayapriya, B., Harshavardhini, U., Nandhini, A.S., Revathi, J., Venkatesan, R.	Development of Virtual Reality Platform through Human Computer Interaction using Artificial Intelligence	Proceedings of the 3rd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2024	CSE			
133	Selvakumar, M., Maruthamuthu, S., Vijayakumar, E., Saravanakumar, B., Tony Dhiwahar, A.	Electrochemical Investigation of Magnesium-Doped Copper Ferrite Nanostructures for Asymmetric Supercapacitor Applications	Journal of Electronic Materials	Physics	Article	Q2	WoS
134	Nithesh, K.G., Savitha, D.C., Kumar, R.A., Deepankumar, S., Marathe, S.N.	Comparison of mathematical modeling to determine the fanning friction (f) and colburn (j) factors for an offset strip compact heat exchanger	International Journal on Interactive Design and Manufacturing	Mechanical	Article	Q2	WoS
135	Jayasri, P.A., Manimegalai, R., Reshmah, C.S., Vaishnavi, S.	Evaluation of Weather Forecasting Models and Handling Anomalies in Short-Term Wind Speed Data	Lecture Notes in Networks and Systems	CSE	Book Chapter		
136	Gayatri, V., Nair, P.A., Deepa, M., Ajita Fairen, J., Dhanya Shree, M.	Synthesizable Implementation of 2N/N Binary Division	ICDCS 2024 - 2024 7th International Conference on Devices, Circuits and Systems	ECE	Conference		
137	Gayatri, V., Amirtha, T., Padmapriya, S.	Optimized Vedic Multiplier N*N using adder approximations and Modified Carry look ahead adders	Proceedings of 2024 International Conference on Science, Technology, Engineering and Management, ICSTEM 2024	ECE	Conference		
138	Appasamy, S., Arumugam, H., Krishnasamy, B., Muthukaruppan, A.	Boron Doped Graphitic Carbon Nitride Reinforced Phenylenebis(Azomethine)Diphenol and Bio-Phenol Based Hybrid Polybenzoxazine Composites for High Dielectric Application	Journal of Inorganic and Organometallic Polymers and Materials	Chemistry	Article	Q2	WoS
139	Anil Kumar, Y., Roy, N., Ramachandran, T., Assiri, M.A., Srinivasa Rao, S., Moniruzzaman, M., Joo, S.W.	Revolutionizing energy storage: exploring the nanoscale frontier of all-solid-state batteries	Dalton Transactions	Physics	Article	Q1	WoS
140	Shoba, J., Maruthamuthu, S., Sakthivel, K., Khan, A.	High-performance battery type bismuth vanadate electrodes for supercapacitors	Ionics	Physics	Article	Q2	WoS
141	Nanthakumar, S., Madhavan, V.M., Maheskumar, P., Jayaraman, R., Muruganandhan, P., Girimurugan, R.	Optimisation of abrasive and corrosion behavior of AA2218 reinforced with Si ₃ N ₄ /Al ₂ O ₃ /ZnO ₂ hybrid composites	Recent Advances in Materials Manufacturing and Machine Learning	Mechanical	Book Chapter		
142	Kumaravel A.; Anouar E.H.	Highly Efficient and Water-Soluble Substituted Pyridinyl Ethyl Urea Inhibitors for the Protection of Mild Steel in Acidic Medium: An Experimental, DFT, and Molecular Dynamics Studies	Journal of Bio- and Tribo-Corrosion	Chemistry	Journal	Q2	
143	Suresh Kumar B.; Hemawathi M.S.; Dhanasekaran P.; Kaliappan V.K.; Sivaganesan D.	Maximizing Learning Outcomes while Minimizing Costs: A Cost-Effective Approach to M-Learning	International Journal of Interactive Mobile Technologies	CSE	Journal	Q3	
144	Vignesh T.; Selvakumar D.; Madhankumar S.	Drying kinetics, energy, colour and FTIR spectroscopy analysis on indirect solar dryer with paraffin wax and glass pieces as thermal storage material	Solar Energy	ECE	Journal	Q1	WoS
145	Vetrivelan P.; Sanjay K.; Shreedhar G.D.; Keerthana Vasana S.; Nithyan R.	Brain Tumor Detection and Classification Using Deep Learning	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
146	Sandrini D.M.F.; Pillis M.F.; Correa O.V.; Madesh P.; Krishnasamy B.; Petri D.F.S.	Lecithin/graphite modified kapok fibers for functional xerogel composites	Cellulose	Chemistry	Journal	Q1	WoS

147	Swaminathan G.; Sampath V.	Thermal and thermomechanical cycling studies of nickel-based shape memory alloys for engineering and medical applications	Advanced Materials for Emerging Applications Innovations, Improvements, Inclusion and Impact	Mechanical	Book Chapter		
148	Jothibas M.; Harish Raj S.D.	Vaccination Application for Vaccine Booking and Management	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
149	Vijay J.A.; Gomathi B.	Advancement in physical education teaching and assessment based on human-computer interaction with deep learning	Digital Analytics Applications for Sustainable Training and Education	CSE	Book Chapter		
150	Sanaka R.; Sahu S.K.; Sreekanth P.S.R.; Senthilkumar K.; Badgayan N.D.; Siva B.V.; Ma Q.	A Review of the Current State of Research and Future Prospectives on Stimulus-Responsive Shape Memory Polymer Composite and Its Blends	Journal of Composites Science	Mechanical	Journal	Q2	WoS
151	Sivaganesan D.; Kumar S.B.; Krishnadharani S.; Rashmitha G.	Optimization of Vehicular Congestion Control in Traffic Signals using YOLO algorithm	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
152	Vishu V.; Manimegalai R.	Authentication techniques for human monitoring in closed environment	Blockchain and IoT based Smart Healthcare Systems	CSE	Book Chapter		
153	Sakthivel T.; Suthaviji S.	Strength and Durability Studies on Concrete using Cashew Nut Shell Ash (CNSA) waste as Supplementary Materials	Global Nest Journal	Civil	Journal	Q3	WoS
154	Vijayakumar P.; Kanniyappan P.; Krishnan A.; Natesan K.; Sushil kumar D.; Siva V.; Yuan W.; Al-Sehemi A.G.; Krishnan P.S.	Unlocking the potential of supercapacitors: Recent advances in oxides, chalcogenides, metal-organic frameworks, MXenes and future outlook	Journal of Energy Storage	Chemistry	Journal	Q1	WoS
155	Baskaran J.	Roadmap to achieve sustainable and eco-friendly metal additive manufacturing processes	Futuristic Technology for Sustainable Manufacturing	Mechanical	Book Chapter		
156	Maria Anto Benita L.; Sathyapriya M.; Venkatesh D.; Sowmiya M.	Predictive Modeling of Data Transmission Throughput in IEEE 802.11 Networks Using Diverse Machine Learning Frameworks: A Comparative Analysis	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
157	Jeyaguru S.; Thiagamani S.M.K.; Krishnasamy S.; Muthukumar C.; Siengchin S.; Hashem M.; Fouad H.	Experimental investigation on the thermal characteristics of Kevlar/hemp intraply hybrid composites: Influence of various weaving designs	Industrial Crops and Products	Mechanical	Journal	Q1	WoS
158	Lokesh S.; Madhavan A.; Ramanathan R.M.P.; Anand K.	Intelligent Systems for Data Driven Agriculture: Enhancing Farmer Productivity Through Automation and Artificial Intelligence	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	AIDS	Conference		
159	Rathinavel N.; Murugesan A.; Ismail A.A.M.	NanoMaterial: Fortifying civil and infrastructure with next-gen corrosion inhibition-a review	Sustainability, Safety, and Applications of Nanomaterials-Based Corrosion Inhibitors	Civil	Book Chapter		
160	Archana D.; Deepthi Sri R.; Deva Dharani P.; Haripriya S.; Vimala Varshini C.P.	Decoding Mobile App Performance with Explainable AI (XAI)	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
161	Jothibas M.; Asshwanth S.D.; Madhan S.; Praneshkumar R.	Advanced Safety System with Computer Vision-Based Eye Movement and Heart Rate Monitoring	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
162	Nithya M.; Sivaraj C.; Senthil Vel M.; Anitha S.	Optimizing thermal efficiency: Advancements in flat plate heat exchanger performance through baffle integration	International Communications in Heat and Mass Transfer	Mech / Maths	Journal	Q1	WoS
163	Rajeshkumar G.; Nagaraja K.C.; Ravikumar P.; Mavinkere Rangappa S.; Siengchin S.	Effect of halloysite addition on the dynamic mechanical and tribological properties of carbon and glass fiber reinforced hybrid composites	Heliyon	Mechanical	Journal	Q1	WoS
164	Sumathi D.; Priya R.K.; Suresh B.; Srija N.; Sunddararaj S.P.; Sivachitra M.	EFFICIENT POWER-AWARE PROTOCOLS FOR GREEN COGNITIVE RADIO NETWORKS IN INDUSTRIAL COMMUNICATIONS	Journal of Environmental Protection and Ecology	EEE	Journal	Q3	
165	Santhanamari G.; Viswa Kumar N.; Sriniketh J.; Abinaya M.R.; Aiswarya P.	HackProInit: AI Powered Hackathon Project Initiator	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		

166	Ravikrishna S.; Subash Kumar C.S.; Sundaram M.; Aakarshna K.; Dharsana J.	RNN-GBM Hybrid Model for State of Charge Prediction	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
167	Bharath S.; Dhanashree D.; Nandika M.; Nandhini A.S.	Intrusion Detection in SDN Using Ensemble Learning Technique	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
168	Susithra N.; Santhosh Kanna S.; Sridhar Karthik K.; Naresh Raja T.; Yaswant V.; Rajalakshmi K.	Analyzing AES Verification: A Comparative Study of UVM and Cocotb Approaches	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
169	Vaishnavi S.; Thanujashree C.; Sri Aishwarya J.; Nandhini N.	Nutrition Recommendation System for Sports Persons using Random Forest Algorithm	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
170	Resma Madhu P.K.; Subbaiah J.	Investigation of Various Data-Driven Modeling Techniques for an Industrial Heat Exchanger	Lecture Notes in Networks and Systems	ECE	Conference		
171	Periasamy D.; Prakalathan K.; Manoharan B.; kumar M.S.; Krishnasamy S.; Dhandapani A.; Thiagamani S.M.K.; Rajini N.; Ismail S.O.; Ilyas R.A.; Natarajan V.	Examining the performance of eco-friendly flax fiber composites: mechanical, thermal and durability properties—review	Biomass Conversion and Biorefinery	Mechanical	Journal	Q2	WoS
172	Thangaraj S.; Arunkumar S.; Mathan J.; Sakthi S.; Nanthakumar S.; Pitchandi P.; Girimurugan R.	Enhancement of Dehydrating of a Mixed Mode Solar Dehydrator with Regenerative Heat Storage System	Lecture Notes in Mechanical Engineering	Mechanical	Conference		
173	Archana D.; Deepak K.; Lokesh Dhanvanthri K.S.; Sridharan S.N.; Vasanth G.; Sriram Naren S.; Prawin Balaji K.S.	Image Text Detection and Documentation Using OCR	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
174	Visali V.S.; Manimegalai R.; Noor Mohammad S.K.; Sunitha Nandhini A.	Performance Analysis of Parallelized PageRank Algorithm using OpenMP, MPI and CUDA	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
175	Paldurai K.; Deepesh M.; Prasanna Kumar K.; Kishore C.; Deepak K.	Optimizing Multiplier Performance with Advanced PTL-Based and Gate and Efficient Full Adder Design	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
176	Balaji S.; Manimegalai R.; Nandhini A.S.	Enhancing Cardiovascular Disease Prediction with EML-Iot Integration	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
177	Paldurai K.; Srivarsa T.; Ashwin Kumar S.; Bharath Ram K.; Chandra Prakash S.	UVM Verification of RISC-V Instruction set	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
178	Bavithra K.; Arivoli S.; Akshayakannaa S.; Dharshini S.; Gokul M.; Kesavan T.	IOT Based-Smart CAP	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
179	Susithra N.; Gayatri V.; Miruthula P.V.; Tharun Sripal A.D.; Harshan B.	Subterranean Access Point Surveillance System	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
180	Sirisamphanwong C.; Velmurugan K.; Ngoenmeesri R.; Wiengmoon B.; Chindaruksa S.; Ramachandran T.; Kuppusamy M.; Sirisamphanwong C.	Solar PV System for Thailand's International Airport: Site Configuration, Energy Production, and Glare Effect	International Journal of Energy Research	Physics	Journal	Q2	WoS

181	Vilasini V.; Hariharan K.; Chezhan N.; Kaviyarasu D.	Secured Data Storage Using OAuth and Encryption of Data Using AES with Patterns and Hidden Layer	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
182	Venkatesh D.; Shailesh H.; Nivitha S.; Thiyagarajan K.	Wearable Antenna for 5G WBAN Applications	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
183	Krishnan P.; Madesh P.; Krishnasamy B.; Thamizselvi R.; Muthukaruppan A.	Multifunctional nitrogen rich benzoxazines with imine moiety: Structural insights, hydrophobic and corrosion-resistant applications	Journal of Applied Polymer Science	Chemistry	Journal	Q2	WoS
184	Vidhyalakshmi M.; Padmapriya S.	High Throughput and Less Error Approximate Compressor Design for Partial Product Reduction in Multipliers	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
185	Ravikrishna S.; Subash Kumar C.S.; Sai Shri Mouriya C.M.; Arnesh S.; Subashree R.	Automatic Temperature Control Using MPC Controller	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
186	Chakraborty D.; Maruthamuthu S.; Ramachandran T.; Priyadharsini N.; Kaleemulla S.	Zinc positioning's impact on electrochemical stability of γ -Al ₂ O ₃ for supercapacitor efficiency	Ionic	Physics	Journal	Q2	WoS
187	Jeyashree A.; Nandhan B.; Madheshwaran S.; Girinith R.; Abhinesh S.R.	Artificial Intelligence - Enhanced PFC Control for Electric Vehicle Charger Using Boost Converter	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
188	Thangavel S.; Shanmugavadivel S.; Shanmugamoorthy M.; Velusamy S.	Pleurotus ostreatus mycelium biofilters: a sustainable approach for thermal insulation in buildings	Revista Materia	Civil	Journal	Q4	WoS
189	Sowmiya M.; Banu Rekha B.; Dheepak S.; Hari Krishna R.; Athish R.S.	Classification of Cardiovascular Diseases from Magnetic Resonance Imaging using Classifiers	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
190	Jayasanthi M.; Vismitha V.; Eunice Joshi A.P.	A Non-Invasive Approach for Hemoglobin Estimation	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
191	Kumar R.J.; Vijayakumar P.	A Survey of Hierarchical Control Aspects of hybrid Microgrid	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
192	Hemkiran S.; War M.M.; Aadhithyan K.S.; Kabilan K.	Web-Based Patient Health Management System with Doctor Recommendations and Medicine Alternatives using Machine Learning	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
193	Paldurai K.; Kamali S.; Muthukumar M.	Design of Adaptive Ramp Generator	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
194	Pavithra C.V.; Divya R.; Srinidhi S.; Sahithya R.	Stepper Motor Control with DWIN Display	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
195	Selvakumar D.; Deeksha S.; Infanta Joanna Motha V.; Asmita J.; Nair D.	Dealing with Diabetes: Artificial Pancreas Using Arduino	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
196	Sundaramurthy A.; Ramasamy K.; Velusamy D.; Vaithiyalingam C.	Enhancing Smart Grid Stability: Data-Driven Predictive Modeling in Distribution Systems	International Journal of Electrical and Electronics Research	Maths	Journal	Q4	

197	Shabariram C.P.; Vrinda S.; Srivatsan S.; Manimeghalai R.	Case Study Based Investigation on Self-Healing Cloud Deployments for Edge-Based Software Development	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
198	Subash Kumar C.S.; Arun Kumar U.; Devi K.U.; Ramesh S.	Electricity and hydrogen fuel generation based on wind, solar energies and alkaline fuel cell: A hybrid IWGAN–AVOA approach	Energy and Environment	EEE	Journal	Q2	
199	Deepa M.; Reddy D.A.; Hariprasath K.; Rohit N.; Yedusheker S.	Design of Efficient Approximate Unsigned Multiplier using Various Approximate Compressor Configurations	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
200	Babu Karupiah A.; Rajaraja R.; Resma Madhu P.K.; Susithra N.; Pradeepika N.; Gopika G.	Resource Analysis of Lightweight Cryptography Algorithms for Compact Devices	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
201	Pazhanimuthu C.; Malukannan M.; Saravanan G.; Senthilkumar M.; Saravanan R.; Balamurugan K.	Implementation of Low-Cost Wireless Control of Home Appliances Using Mobile Applications for Physically Challenged People	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
202	Kishore C.; Deepesh M.; Prasanna Kumar K.; Deepak K.; Selvakumar D.	Automatic Line Marking Robot	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
203	Jisnu S.; Dharaneesh J.D.; Krishneth A.; Lokesh S.	Enhancing Agricultural Decision-Making: A Supervised Machine Learning Approach	Proceedings - 2024 4th International Conference on Pervasive Computing and Social Networking, ICPCSN 2024	AIDS	Conference		
204	Jayaraman R.; Sivalingam A.; Rahul S.; Prabakaran V.; Nanthakumar S.; Hasane Ahammad S.; Girmurugan R.	Square Pyramid and Single Slope Solar Still: Experimental Analysis for Various Depth of Water	Lecture Notes in Mechanical Engineering	Mechanical	Book Chapter		
205	Ponnuswamy P.P.; Sadhana V.; Shabariram C.P.; Chowdary K.Y.; Sanju Revanth A.R.	Parallelizing Sieve of Eratosthenes Algorithm in Banking Application	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
206	Allin Joe D.; Krishnan T.; Venkatesh D.	Wideband Circular Patch Antenna Using Partial Ground Plane for S Band Mobile Applications	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
207	Divya R.; Aswin K.; Priya K.; Surrvesh K.S.	Health Monitoring and Assistance System for Wheelchair Patients	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
208	Senthilkumar M.; Ravikrishna S.; Sathiyathan M.; Aiswarya B.; Ananthi K.	YOLO-Based Adaptive Home Automation System	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
209	Saravanan G.; Pazhanimuthu C.; Sathish Kumar D.; Lalitha B.; Senthilkumar M.; Kannan E.	Red Panda Optimization Algorithm-Based PID Controller Design for Automobile Cruise Control System	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
210	Kala I.; Swathy S.; Vishnu Priya V.; Harshavarthan P.K.	Noise Pollution Detection and Notification Using Flet and Arduino	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
211	Suresh B.; Sowmya R.; Santhiya C.; Subhiksha M.; Pradhip A.K.	EV Battery Charging Using Bi-Directional Converter with Buck Mode	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		

212	Deepa M.; Narayanan G.; Vempati J.; Varssha B.; Manibharathi M.A.; Vidhyapriya R.	Lossless and Low-Power ECG Compression Using a Hybrid Approach	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
213	Muthuraja M.; Shanthy N.; Aravindhraj N.; Vilasini V.; Saran Kumar A.	Diabetic Foot Ulcer Detection using Deep Learning Approaches	1st International Conference on Electronics, Computing, Communication and Control Technology, ICECCC 2024	CSE	Conference		
214	Santhanamari G.; Abinaya M.R.; Aiswarya P.; Jawagar M.; Thanuj R.; Deva Dharani P.	Digital Health Tracker	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
215	Shievedha S.; Dharshini V.P.; Vasanth X.A.	Optimization and Prediction of Tool Wear Using Hybrid Grey Relation Analysis and Regression for Milling Operation	Lecture Notes on Multidisciplinary Industrial Engineering	Mechanical	Book Chapter		
216	Anuradha S.; Manimegalai R.; Devasena M.	Challenges in Recycling Lead Acid Battery and Lithium-Ion Battery: A Comprehensive Review	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	Civil / CSE	Conference		
217	Kartik R.; Megadarshini V.; Kavisri S.; Manimegalai R.	Human Detection using ROI of an Image	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	CSE	Conference		
218	Sowmiya M.; Banu Rekha B.; Athish R.S.; Sailesh K.	Heart Disease Prediction using Optimized Feature Set and Classifiers	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
219	Vijayakumar P.; Bhuvaneshwari K.; Bhuvaneshwari S.	Adiabatic Logic: A Paradigm Shift in Power-Efficient VLSI Design for FIR Filters	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	ECE	Conference		
220	Adhavan B.; Nandhan B.	Smart Security Alert System	International Conference on Smart Systems for Electrical, Electronics, Communication and Computer Engineering, ICSSEEC 2024 - Proceedings	EEE	Conference		
221	Rathinavel N.; Murugesan A.; Ramanathan S.; Alagar M.; Ismail A.A.M.; Panchal H.N.; Gupta N.K.	Influence of curing media on properties of alkali-treated paddy straw-based lightweight geopolymer composites	Polymer Bulletin	Chem/Civil	Journal	Q2	WoS
222	Devaraju S.; Alagar M.	Functionalized polyhedral oligomeric silsesquioxane-based polymer nanocomposites	Advances in Functionalized Polymer Nanocomposites: From Synthesis to Applications	Chemistry	Book Chapter		
223	Nagarjun J.	Revalorisation of tamarind seed waste for improved PLA wear and hydrophilic behaviour in 3D printing applications	Biomass Conversion and Biorefinery	Mechanical	Journal	Q2	WoS
224	Selvakumar K.; Lokesh S.	Deep-KEDI: Deep learning-based zigzag generative adversarial network for encryption and decryption of medical images	Technology and health care : official journal of the European Society for Engineering and Medicine	AIDS	Journal	Q3	WoS
225	Chandra Mouli K.V.V.; Kalla R.M.N.; Ramachandran T.; Kumar Y.A.; Moniruzzaman M.; Lee J.	Cutting-edge advancements in HOFs-derived materials for energy storage supercapacitor application	International Journal of Hydrogen Energy	Physics	Journal	Q1	WoS
226	Suguna K.; Raghunath P.N.; Arun M.; Karthick J.	The influence of polyolefin and steel fibres on flexural performance of reinforced concrete beams under cyclic loads	Journal of Building Pathology and Rehabilitation	Civil	Journal	Q2	
227	Manju T.; Kalarani S.	DeepSight: Enhancing Deepfake Image Detection and Classification through Ensemble and Deep Learning Techniques	Proceedings - 2024 5th International Conference on Image Processing and Capsule Networks, ICIPCN 2024	CSE	Conference		
228	Natarajan S.; Chidambaram A.; Murugesan A.	Mechanical and Micro-structural Properties of UltraHigh Strength Concrete: A Review	Brazilian Archives of Biology and Technology	Civil	Journal	Q2	WoS
229	Pramila K, Ravindran R, Muthukannan A	Professional Development for Language Teachers and the Efficacy of Mentoring System to Reinforce Professional Skills	Indian Journal of Natural Sciences	English	Journal		WoS
230	A.Muthukannan, K.Pramila. R. Ravindran	The Colossal Influence of Collective Unconsciousness in American Society in Stephen King's Novel The Dead Zone. A Study	Indian Journal of Natural Sciences	English	Journal		WoS

231	R. Ravindran, K. Pramila, A. Muthukannan	Artistic Values in J.M.Coetzee's Disgrace	Indian Journal of Natural Sciences	English	Journal		WoS
232	V. Sutharshan	Belonging and Resilience: Themes of Identity in Selected Indian Novels	Indian Journal of Natural Sciences	English	Journal		WoS
233	Baskaran J.	Advancements in metal additive manufacturing technology for biomedical applications	Trends and Applications in Mechanical Engineering, Composite Materials and Smart Manufacturing	Mechanical	Book chapter		
234	Rathan N.; Lokesh S.	Enhanced Lung Cancer Diagnosis and Staging With HRNeT: A Deep Learning Approach	International Journal of Imaging Systems and Technology	AIDS	Article	Q2	WoS
235	Pichandi S.; Balasubramanian G.; Chakrapani V.	Hybrid deep models for parallel feature extraction and enhanced emotion state classification	Scientific Reports	CSE	Article	Q1	WoS
236	Mohanram D.; Ranganathan V.	FUZZY LOGIC-BASED CURRENT CONTROL LOGIC FOR PROPORTIONAL FLOW CONTROL VALVE SYSTEM OF MEDICAL VENTILATORS	Comptes Rendus de L'Academie Bulgare des Sciences	ECE	Article	Q3	WoS
237	Mathimani J.; Ramachandran S.; Devaraj P.; Govindaraj L.; Muthukaruppan A.	Impact of Different Substituents on Thermal Curing and Flame-Retardant Behaviors of 2,2'-Methylenebis(4-nitrophenol)-Based (Poly)benzoxazines	ChemistrySelect	Chemistry	Article	Q3	WoS
238	Palanisamy K.P.; Shanmugakani T.R.; Balasubramanian G.; Anandan R.	PART IV: Quantum evaluation models: Quantum process tomography and regression	Quantum Machine Learning: A Modern Approach	CSE	Book chapter		
239	Kuruvila R.; R J.; S T.K.	Corrosion measurement of thermally sprayed carbide coatings on stainless steel pipes	Results in Surfaces and Interfaces	Mechanical	Article	Q2	WoS
240	Ganapathy T.; Thirukumaran M.; Arivuazhagan S.; SenthamaraiKannan P.; Senthilkumar K.; Sivasamy P.	Synergistic effect on the mechanical, thermal, and tribology characteristics of modified natural fibre composites with perforated waste PET	Biomass Conversion and Biorefinery	Mechanical	Article	Q2	WoS
241	K M.M.; Krishnasamy B.; Tamilvendan A.; Govindraj L.	Studies on Nitrogen Rich Benzoxazines Containing Schiff Base for Optical, Aggregation Induced Emission and Anti-Microbial Applications	Polymer-Plastics Technology and Materials	Chemistry	Article	Q2	WoS
242	Rajeshkumar G.; Vigneshwaran K.	Exploring the effects of fiber content and length on mechanical, free vibration, electrical, and water absorption properties of Phoenix sp. fiber-reinforced polyester composites	Polymer Composites	Mechanical	Article	Q1	WoS
243	Subash Kumar C.S.; Ravikrishna S.; Sathiyathan M.; Arthy G.	Fault Prognosis of Induction Motor Using Multi Resolution Current Signature Analysis	International Journal of Electrical and Electronics Research	EEE	Article	Q4	
244	Nagaraja K.C.; Manjunath A.; Pranesh K.G.; Rajeshkumar G.; Raju M.G.; Shastry S.G.	Impact of Manufacturing Methods on the Mechanical Characteristics of Polymer Matrix Composites with Glass and Epoxy Fiber Reinforcement	Journal of The Institution of Engineers (India): Series D	Mechanical	Article	Q3	
245	Gomathy B.; Jayachitra T.; Rajkumar R.; Lalithamani V.; Pradeep Ghantasala G.S.; Anantraj I.; Shyamala C.; Vinoth Rajkumar G.; Saranya S.	Adversarial Training for Robust Natural Language Processing: A Focus on Sentiment Analysis and Machine Translation	Communications on Applied Nonlinear Analysis	CSE	Article	Q4	
246	Roy N.; Anil Kumar Y.; Ramachandran T.; Fouda A.M.; Hegazy H.H.; Moniruzzaman M.; Woo Joo S.	Biomass-derived nanostructures and hydrothermal carbon spheres: A review of electrochemical applications in redox flow battery	Journal of Industrial and Engineering Chemistry	Physics	Review	Q1	WoS
247	Arun Ramnath R.; Rajeshkumar G.; Muthukumar N.; Gautham V.	An investigation on tribology performance of Abutilon Indicum fibre reinforced polymer composites	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Mechanical	Article	Q2	WoS
248	Rajeshkumar G.	Mechanical, free vibration, electrical, and water absorption properties of vinyl ester composites reinforced with Phoenix sp. fibers: Influence of eco-friendly sodium bicarbonate treatment	Polymer Composites	Mechanical	Article	Q1	WoS
249	Saranya S.S.; Dharani A.S.; Kavitha M.N.; Selya Dharsnee M.; Pragatheeswari E.; Selya Varsnee M.	IOT-Enabled Smart Crop Recommendation System Using Machine Learning	5th International Conference on Electronics and Sustainable Communication Systems, ICESC 2024 - Proceedings	CSE	Conference paper		
250	Sivaganesan D.; Reshmah C.S.; Swathy S.; Mugilan S.	Parking Slot Identification System using SVM Classifier and HOG Features	2nd International Conference on Intelligent Cyber Physical Systems and Internet of Things, ICoICI 2024 - Proceedings	CSE	Conference paper		
251	Manimaran N.; Baskaran J.; Padmanathan K.; Mahalakshmi G.	A Buck-Boost-Flyback integrated converter for grid-connected wind-photovoltaic battery energy storage system using hybrid optimization assisted model	Journal of Energy Storage	EEE	Article	Q1	WoS
252	Muthusamy A.R.; Thiagamani S.M.K.; Krishnasamy S.; Muthukumar C.; Rangappa S.M.; Siengchin S.	Lignocellulosic microfibrils from Phaseolus lunatus and Vigna radiata biomass: characterization and properties	Biomass Conversion and Biorefinery	Mechanical	Article	Q2	WoS
253	Madesh P.; Krishnasamy B.; Dheivasigamani T.; Muthukaruppan A.	Bio-inspired sustainable benzoxazine based composites containing aniline derivatives: A comprehensive study on anti-microbial, advanced coatings, oil-water separation and electronic utilizations	Polymer	Chemistry	Article	Q1	WoS
254	Suyambulingam I.; Narayanaperumal S.; Gapsari F.; Divakaran D.; SenthamaraiKannan P.; Rajeshkumar G.; Hassan M.Z.	Isolation and characterization of biomass waste based bioplasticizer from Eucalyptus leaf: A suitability analysis of biofiller for polymeric composites	Results in Engineering	Mechanical	Article	Q1	WoS
255	Shabariram C.P.; Shanthi N.; Ponnuswamy P.P.; Subramaniaswamy V.; Sathana V.	Resource Allocation in Edge Computing Environment Using Deterministic Policy Gradient Algorithm	10th International Conference on Advanced Computing and Communication Systems, ICACCS 2024	CSE	Conference paper		

256	Shanmugam P.; Hosomi K.; Rajendran R.; Krishnasamy B.; Kretkowski M.; Inami W.; Kawata Y.; Dheivasigamani T.	Promising transition metal molybdate (TMM) single phase microstructures for asymmetric supercapacitor and photocatalytic applications	Ceramics International	Chemistry	Article	Q1	
257	Sudha M.; Balamurugan A.; Girisha L.; Kalaiarasan S.; Ravivarman G.; Nanthakumar S.; Girimurugan R.	Structural, Optical, and Electrical Transformations in FexSi1-xO Thin Films: The Role of Iron and Annealing	Journal of Physics: Conference Series	Mechanical	Conference paper		
258	Ponnusamy P.; Seenivasan S.; Loganathan G.B.; Magesh Babu D.; Sivalingam A.; Nanthakumar S.; Girimurugan R.	Toolpath and Tool Design Innovations in Deformation Machining for Superior AA-7075 T6 Fins	Journal of Physics: Conference Series	Mechanical / CSE	Conference paper		
259	Elenchezhiyan M.; Thirunavukkarasu I.; Kumar E.G.	Applying Joint and Dual State and Parameter Estimation Using Derivative-Free Kalman Filter for a Switched Nonlinear System	Lecture Notes in Electrical Engineering	EEE	Conference paper		
260	Hemkiran S.; Kartik R.; Aswath S.R.; Kabilan K.; Sudha Sadasivam G.	Computational Web Drug Discovery Application for SARS- Cov-2 Disease Using Predictive and Analytical Approach	10th International Conference on Advanced Computing and Communication Systems, ICACCS 2024	CSE	Conference paper		
261	Srinivasan V.; Vaishnavi S.; Aravindh V.; Ashwin V.; Nishok M.	A UWB Based Tracking and Management System for Streamlining Steel Ladle Operations	10th International Conference on Advanced Computing and Communication Systems, ICACCS 2024	CSE	Conference paper		
262	Pandi P.; Subramani D.	Robust and durable hydrophobic sustainable and eco-friendly bio-based polybenzoxazine coated cotton fabric/paper for effective oil–water emulsion separation and self-cleaning applications	Cellulose	Chemistry	Article	Q1	WoS
263	Suchithra B.; Kalaivani T.; Asha J.; Sathya R.; Ananthi S.; Subha R.	Fake Review Detection using Enhanced Random Forest	10th International Conference on Advanced Computing and Communication Systems, ICACCS 2024	CSE	Conference paper		
264	Vishnuvardhan K.; Rajkumar R.; Navin Ganesh V.; Sakthiprasanth K.	Neural-network-driven approach in optimization of municipal solid waste collection integrated with geo-spatial techniques	Global Nest Journal	Civil	Article	Q3	WoS
265	Kannan P.K.; Anandkumar M.; Bhavani G.	Chalcogenide perovskites—challenges, status, and future prospects	Journal of Semiconductors	Physics	Review	Q1	WoS
266	Reddy V.M.; Chandra M.B.; Gengan S.; Duraisamy S.	Electrochemical nucleation and growth model of MoS2 for hydrogen evolution reaction	Journal of Analytical Science and Technology	ECE	Article	Q3	WoS
267	Prabakaran R.; Gomathi B.; Jeyalakshmi P.; Thangamuthu M.; Mohan Lal D.; Kim S.C.	Low global warming potential R1234yf in a mobile air-conditioning system: a study on performance prediction using different machine learning approaches	Journal of Thermal Analysis and Calorimetry	CSE	Article	Q2	WoS
268	Madesh P.; Krishnasamy B.; Kumarasamy V.; Kannaiah K.P.	Exploring the Potential of Bifunctional Polybenzoxazines Containing Schiff Bases for Superhydrophobic and Anticorrosion Properties: A Comprehensive Study on Synthesis and Characterization	Polymers for Advanced Technologies	Chem	Article	Q2	WoS
269	Babu Vignesh C.; Arul E.; Mahavishnu V.C.; Punidha A.	Mutation mayfly algorithm (MMA) based feature selection and probabilistic anomaly detection model for cyber-physical systems	International Journal of System Assurance Engineering and Management	CSE	Article	Q2	WoS
270	Chakraborty D.; Bhavani G.	Optimization of Ca doped in alumina for efficient sunlight-irradiated methylene blue degradation	Journal of Materials Science	Physic	Article	Q2	WoS
271	Sripriyan K.; Karthiga M.	A comparative study on the microstructures and mechanical properties of arc welded of HSLA steel	Journal of Mechanical Science and Technology	CSE	Article	Q2	WoS
272	Mohamed Iqbal M.; Divya R.; Pavithra C.V.; Vishalini G.; Shanmugasundaram R.	Modelling of solar PV-fuel cell based micro-grid system and harmonics mitigation using fuzzy controlled dynamic voltage restorer	International Journal of Advanced Technology and Engineering Exploration	EEE	Article	Q3	**
273	Kumar Y.A.; Naidu Kalla R.M.; Ramachandran T.; Fouda A.M.; Hegazy H.H.; Moniruzzaman M.; Lee J.	MXene mastery: Transforming supercapacitors through solid-solution innovations	Journal of Industrial and Engineering Chemistry	Physics	Review	Q1	WoS
274	Kumarasamy Y.; Jayakumar N.; Mohanty P.K.; Das S.	Transforming electronic waste into a sustainable 3D printing filaments using polylactic acid	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	Mechanical	Article	Q2	WoS
275	Saravanamuthu A.; Khaja Najimudeen M.M.; Balaji K.; Mani K.S.; Govindasamy R.; Muthukaruppan A.	Modified guaiacol-based benzoxazines for optical, aggregation-induced emission and corrosion-resistant coating applications	Polymer International	Chemistry	Article	Q2	WoS
276	Anbumani V.; Padmapriya S.; Rajaraja R.; Vikram N.; Ranjith S.; Abhinav B.T.	Efficient Fault Detection Methods in Printed Circuit Boards using Machine Learning Techniques	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	ECE	Conference paper		
277	Anandkumar M.; Kannan P.K.; Morozov R.S.; Zaitseva O.V.; Sudarsan S.; Trofimov E.A.	Electrochemical detection of p-nitrophenol using glassy carbon electrode modified using high-entropy oxide nanoparticles	Ceramics International	Physics	Article	Q1	WoS
278	Aliqab K.; Han B.B.; Balashanmugham A.; Patel S.K.; Armghan A.; Alsharari M.	Graphene-Based Highly Efficient Surface Plasmon Resonance Solar Absorber Design Using Zr-GaAs-Cr Materials for Renewable Energy Generation	Plasmonics	EEE	Article	Q3	WoS
279	Gowsalya R.; Kamalaveni N.; Sathyamoorthi S.; Kumaravel A.	Uncovering the impact of commercial mass-loaded biocarbon electrodes on the ionic diffusion and performance of the supercapacitor	Ionics	Chemistry	Article	Q2	WoS

280	Mani P.; Archana D.; Tamilkumaran A.; Sneka Varshini V.; Sree Sakthi J.; Suhash E.	Enhanced Multi-Scale Graph Networks for Glaucoma Detection in Optical Coherence Tomography	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	ECE	Conference paper		
281	Anil Kumar Y.; Vignesh S.; Ramachandran T.; Fouda A.M.; Hegazy H.H.; Moniruzzaman M.; Hwan Oh T.	Advancements in novel electrolyte materials: Pioneering the future of supercapacitive energy storage	Journal of Industrial and Engineering Chemistry	Physics	Review	Q1	WoS
282	Jeyaguru S.; Thiagamani S.M.K.; Krishnasamy S.; Muthukumar C.; Seingchin S.; Althomali R.H.; Khan A.; Asiri A.M.; Marwani H.M.	Biodegradable Polymers and Composites for Automotive Applications: A Concise Review	Springer Proceedings in Materials	Mechanical	Book chapter		
283	Rajesh Kannan A.; Palguna Y.; Rajkumar V.; Siva Shanmugam N.; Lee W.; Mohan D.G.; Yoon J.; Oliveira J.P.	Microstructure and nanomechanical behaviour of wire-arc additive manufactured nickel-based superalloy C276	Progress in Additive Manufacturing	Mechanical	Article	Q1	WoS
284	Diwaha P.; Prakalathan K.; Bhuvana K.P.; Senthilkumar K.	Examining the Mechanical and Thermal Properties of a Novel Hybrid Thermoplastic Rubber Composite Made with Polypropylene, Polybutadiene, S-Glass Fibre, and Flax Fibre	Polymers	Mechanical	Article	Q1	WoS
285	Heaven Dani M.S.; Saravanan N.; Girisha L.; Kiran Uday K.; Ramalingam R.; Nanthakumar S.; Girimurugan R.; Anbarasu M.; Mathanbabu M.	Optimizing the Properties of AA 5052 Alloys through Silicon Carbide and Groundnut Shell Ash Reinforcements	International Journal of Vehicle Structures and Systems	Mechanical	Article	Q4	
286	Mariappan Santhi V.; Periasamy D.; Perumal M.; Sekar P.M.; Varatharajan V.; Aravind D.; Senthilkumar K.; Kumaran S.T.; Ali S.; Sankar S.; Vijayakumar N.; Boominathan C.; Krishnan R.S.	The Global Challenge of Fluoride Contamination: A Comprehensive Review of Removal Processes and Implications for Human Health and Ecosystems	Sustainability (Switzerland)	Mechanical	Review	Q2	WoS
287	Kannakumar K.; Seenivasan S.; Nithyanandhan T.; Jothilakshmi S.; Senthilrajan S.; Nanthakumar S.; Girimurugan R.; Anbarasu M.; Mathanbabu M.	Improved Mechanical Characteristics of AA2519 through the Synergistic Effect of B4C Addition by Squeeze Casting	International Journal of Vehicle Structures and Systems	Mechanical	Article	Q4	
288	Babu B.; Karthikeyan S.K.; Babu B.H.; Nanthakumar S.; Sakthi S.; Vijayalakshmi P.; Girimurugan R.; Elango E.; Mathanbabu M.	Optimization on the Tool Parameters in Friction Stir Lap Joining of AA2219 by Response Surface Methodology	International Journal of Vehicle Structures and Systems	Mechanical	Article	Q4	
289	Nalaeram Sivaram R.; Thiagamani S.M.K.; Ebrahimnezhad-Khaljiri H.; Subramaniam J.; Krishnasamy S.; Muthukumar C.; Thanh M.N.T.; Khan A.	Enhanced thermal and mechanical properties of sapodilla/PLA biocomposites using filament extrusion 3D printing	Functional Composites and Structures	Mechanical	Article	Q2	WoS
290	Krishnasamy S.; Sasikumar R.; Swaminathan G.; Thirukumaran M.; Hema M.; Parameswaranpillai J.; Thiagamani S.M.K.; Aravind D.; Chandrasekar M.; Natarajan V.	Hybrid glass/Kevlar fiber reinforced phenolic matrix composites: Thermal degradation and flammability studies	Polymer Composites	Mechanical	Article	Q1	WoS
291	Selvaraj V.; Swarna Karthika T.; Mansiya C.; Andal V.; Alagar M.	Review on Superhydrophobic Polymer Composite Coating Materials and its Coating Technology for Advanced Applications	Polymer-Plastics Technology and Materials	Chemistry	Article	Q2	WoS
292	Anbumani V.; Vikram N.; Rajaraja R.; Sanjeev G.P.; Varunesh M.J.; Suhas D.K.	Area-Efficient VLSI Architecture for Advanced Encryption Standard	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	ECE	Conference paper		
293	Rajesh Kannan A.; Rajkumar V.; Durgaprasad C.; Shanmugam N.S.; Rajkumar V.; Yoon J.	Microstructure and Hot Oxidation Resistance of Wrought and Wire Arc Additive Manufactured Austenitic Stainless Steel 347	Steel Research International	Mechanical	Article	Q2	WoS
294	Mohan V.; Sivaganesan D.; Balasubramaniam S.; Vikhas S.G.; Dhinesh S.P.	Collaborative Search With Knowledge Sharing And Summarization	4th International Conference on Sustainable Expert Systems, ICSES 2024 - Proceedings	CSE	Conference paper		
295	Syed O.B.; Nithiyapathi C.; Rathinam R.; Nanthakumar S.; Gangwar P.K.; Satishkumar P.	Evaluation of the Mechanical and Thermal Characteristics of Polypropylene Composites Reinforced with Benzoylation-Processed Banana Fibre and Sisal Fibers	Materials Science Forum	Mechanical	Book chapter		
296	Moorthy A.A.; Madheswaran S.; Babu G.L.; Murthi M.K.; Nanthakumar S.; Senthilkumar K.L.; Selvakumar A.	ANALYZING EXPERIMENTALLY THE DYNAMIC CHARACTERISTICS OF JOURNAL BEARINGS UNDER VARIOUS LOAD CONDITIONS	Journal of Physics: Conference Series	Mechanical	Conference paper		
297	Selvam G.S.; Kovil Pitchai J.S.; Krishnasamy B.; Rajendran R.; Dheivasigamani T.	Stable neodymium gallium oxide (Nd ₃ Ga ₅ O ₁₂ and Nd ₃ GaO ₆) phases: a study on their asymmetric supercapacitor applications	Dalton Transactions	Chemistry	Article	Q1	WoS
298	Kumar S.K.; Mohanraj K.; Raja M.S.; Arul M.; Hussain B.I.; Nanthakumar S.; Devarajan R.	Development and characterization of Fe-30Cu-10Si6W-10Mo superalloy with enhanced γ' phase stability and oxidation resistance using CALPHAD method	Journal of Physics: Conference Series	Mechanical	Conference paper		
299	Ramanipriya M.; Anitha S.	An imperative need for machine learning algorithms in heat transfer application: a review	Journal of Thermal Analysis and Calorimetry	Maths	Article	Q2	WoS
300	Hussain B.I.; Vijayasekaran G.; Sivaraman G.; Mahes Kumar P.; Girimurugan R.; Nanthakumar S.	Analysing the Execution of a Building Unifying with Concentrating Photovoltaic System and Phase Change Materials	Journal of Physics: Conference Series	Mechanical	Conference paper		

301	Kavitha M.N.; Saranya S.S.; Prasad M.; Kaviyarasu S.; Ragunath N.; Rahul P.	An Ensembled Real-Time Hand-Gesture Recognition using CNN	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	CSE	Conference paper		
302	Preman A.N.; Aswale S.; Salunkhe T.T.; Lee S.; Kim M.C.; Devaraju S.; Hyun K.; Paik H.-J.; Kim I.T.; Ahn S.-K.	Better together: integrating adhesion and ion conductivity in composite binders for high-performance silicon anodes	Journal of Materials Chemistry A	Chemistry	Article	Q1	WoS
303	Kumar M.G.R.; Parvathikumar G.; Arunkumar G.E.; Rajeshkumar G.	Investigating the properties of agro-waste fiber reinforced low calcium fly ash geopolymer composites: the effect of alkali treatment and nano-clay addition	Journal of Material Cycles and Waste Management	Mechanical	Article	Q2	WoS