

# V Mohanavel

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159  
papers

1,935  
citations

24  
h-index

40  
g-index

187  
ext. papers

2,801  
ext. citations

1.8  
avg, IF

6.35  
L-index

#	Paper	IF	Citations
159	A Review on the Effect of Various Chemical Treatments on the Mechanical Properties of Renewable Fiber-Reinforced Composites. <i>Advances in Materials Science and Engineering</i> , <b>2022</b> , 2022, 1-24	1.5	0
158	Role of Nanoparticles in Biodegradation and Their Importance in Environmental and Biomedical Applications. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-15	3.2	3
157	Curcumin-Based Inhibitors of Thrombosis and Cancer Metastasis Promoting Factor CLEC 2 from Traditional Medicinal Species .. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2022</b> , 2022, 9344838	2.3	38
156	Performance Evaluation of Cyclic Stability and Capacitance of Manganese Oxide Modified Graphene Oxide Nanocomposite for Potential Supercapacitor Applications. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-8	3.2	1
155	Mechanical and Durability Studies on Ficus exasperata Leaf Ash Concrete. <i>Advances in Civil Engineering</i> , <b>2022</b> , 2022, 1-10	1.3	
154	Investigation on Inorganic Salts K <sub>2</sub> TiF <sub>6</sub> and KBF <sub>4</sub> to Develop Nanoparticles Based TiB <sub>2</sub> Reinforcement Aluminium Composites.. <i>Bioinorganic Chemistry and Applications</i> , <b>2022</b> , 2022, 8559402	4.2	0
153	Investigating the Role of Image Fusion in Brain Tumor Classification Models Based on Machine Learning Algorithm for Personalized Medicine.. <i>Computational and Mathematical Methods in Medicine</i> , <b>2022</b> , 2022, 7137524	2.8	6
152	Effect of Nanoaluminium Nitride Ceramic Particles on Microstructure, Mechanical Wear, and Machining Behavior of Al-Si-Mg Alloy Matrix Composites Produced by Bottom Pouring Type Stir Casting Route. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-14	3.2	0
151	Investigating Influences of Synthesizing Eco-Friendly Waste-Coir-Fiber Nanofiller-Based Ramie and Abaca Natural Fiber Composite Parameters on Mechanical Properties.. <i>Bioinorganic Chemistry and Applications</i> , <b>2022</b> , 2022, 6557817	4.2	0
150	Application of Machine Learning Techniques in Additive Manufacturing: A Review. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2022</b> , 1-24	0.4	
149	Design of Boosted Multilevel DC-DC Converter for Solar Photovoltaic System. <i>International Journal of Photoenergy</i> , <b>2022</b> , 2022, 1-23	2.1	2
148	Investigation of Weight Fraction and Alkaline Treatment on Catechu Linnaeus/Hibiscus cannabinus/Sansevieria Ehrenbergii Plant Fibers-Reinforced Epoxy Hybrid Composites. <i>Advances in Materials Science and Engineering</i> , <b>2022</b> , 2022, 1-9	1.5	6
147	Investigation of Reinforced Concrete Column Containing Metakaolin and Fly Ash Cementitious Materials. <i>Advances in Civil Engineering</i> , <b>2022</b> , 2022, 1-13	1.3	0
146	Wire Electrical Discharge Machining Characteristics of Al-4.4 Mg-0.7 Mn-0.15 Cr-12 wt.% MoO <sub>3</sub> Composites Using Taguchi Technique. <i>Advances in Materials Science and Engineering</i> , <b>2022</b> , 2022, 1-10	1.5	0
145	Removing microplastics from wastewater using leading-edge treatment technologies: a solution to microplastic pollution-a review.. <i>Bioprocess and Biosystems Engineering</i> , <b>2022</b> ,	3.7	4
144	Human Centered Decision-Making for COVID-19 Testing Center Location Selection: Tamil Nadu-A Case Study.. <i>Computational and Mathematical Methods in Medicine</i> , <b>2022</b> , 2022, 2048294	2.8	1
143	Biofabrication of Silver Nanoparticles and Current Research of Its Environmental Applications. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-11	3.2	1

142	Bioactive Potential of Brown Algae. <i>Adsorption Science and Technology</i> , <b>2022</b> , 2022, 1-13	3.6	2
141	Optimization and Prediction of Tribological Behaviour of Al-Fe-Si Alloy-Based Nanograin-Refined Composites Using Taguchi with Response Surface Methodology. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-12	3.2	5
140	Evaluation of MWCNT Particles-Reinforced Magnesium Composite for Mechanical and Catalytic Applications. <i>Bioinorganic Chemistry and Applications</i> , <b>2022</b> , 2022, 1-13	4.2	1
139	Synthesis and Workability Behavior of Cu-X wt.% TiC (x = 0, 4, 8, and 12) Powder Metallurgy Composites. <i>Bioinorganic Chemistry and Applications</i> , <b>2022</b> , 2022, 1-10	4.2	1
138	Performance and Emission Analysis of Watermelon Seed Oil Methyl Ester and n-Butanol Blends Fueled Diesel Engine. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-12	1.1	2
137	Mechanical Properties and Electrical Resistivity of the Friction Stir Spot-Welded Dissimilar AlCu Joints. <i>International Journal of Polymer Science</i> , <b>2022</b> , 2022, 1-7	2.4	2
136	Mechanical Properties of Titanium Diboride Particles Reinforced Aluminum Alloy Matrix Composites: A Comprehensive Review. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-18	1.5	3
135	Hourly and Day Ahead Power Prediction of Building Integrated Semitransparent Photovoltaic System. <i>International Journal of Photoenergy</i> , <b>2021</b> , 2021, 1-8	2.1	7
134	Mechanical and Tribological characteristics of AA6082/ZrB <sub>2</sub> composites. <i>Materialpruefung/Materials Testing</i> , <b>2021</b> , 63, 962-965	1.9	1
133	Thermal and Flame Retardant Behavior of Neem and Banyan Fibers When Reinforced with a Bran Particulate Epoxy Hybrid Composite. <i>Polymers</i> , <b>2021</b> , 13,	4.5	5
132	Combustion, Performance, and Emission Behaviors of Biodiesel Fueled Diesel Engine with the Impact of Alumina Nanoparticle as an Additive. <i>Sustainability</i> , <b>2021</b> , 13, 12103	3.6	6
131	Investigation of Drilling Process Parameters of Palmyra Based Composite. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-9	1.5	3
130	Effects of the Interfacial Bonding Behavior on the Mechanical Properties of E-Glass Fiber/Nanographite Reinforced Hybrid Composites. <i>Advances in Polymer Technology</i> , <b>2021</b> , 2021, 1-9	1.9	5
129	Review on phase change materials for solar energy storage applications. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	6
128	Investigation of Mechanical and Durability Properties of Concrete Mixed with Water Exposed to a Magnetic Field. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-14	1.3	2
127	Optimization of FSP Process Parameters on AA5052 Employing the S/N Ratio and ANOVA Method. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-15	1.5	2
126	Short-Term Power Prediction of Building Integrated Photovoltaic (BIPV) System Based on Machine Learning Algorithms. <i>International Journal of Photoenergy</i> , <b>2021</b> , 2021, 1-11	2.1	20
125	Modified Friction Stir Clinching of AA5754-O to AA6061-T6: The role of shoulder feature on the metallurgical and mechanical properties. <i>Vacuum</i> , <b>2021</b> , 187, 110109	3.7	10

124	Weldability and mechanical properties of AA5083-H112 aluminum alloy and pure copper dissimilar friction spot extrusion welding-brazing. <i>Vacuum</i> , <b>2021</b> , 187, 110080	3.7	34
123	Experimental Investigation of the Friction Stir Weldability of AA8006 with Zirconia Particle Reinforcement and Optimized Process Parameters. <i>Materials</i> , <b>2021</b> , 14,	3.5	24
122	A Novel Visible Light-Driven p-Type BiFeO <sub>3</sub> /n-Type SnS <sub>2</sub> Heterojunction Photocatalyst for Efficient Charge Separation and Enhanced Photocatalytic Activity. <i>Journal of Cluster Science</i> , <b>2021</b> , 32, 1431-1439 <sup>3</sup>		2
121	Mechanical and Microstructural Characterization of Friction Stir Welded SiC and BC Reinforced Aluminium Alloy AA6061 Metal Matrix Composites. <i>Materials</i> , <b>2021</b> , 14,	3.5	15
120	Weldability Investigation and Optimization of Process Variables for TIG-Welded Aluminium Alloy (AA 8006). <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-17	1.5	12
119	Synthesis and Characterization of Mechanical Properties and Wire Cut EDM Process Parameters Analysis in AZ61 Magnesium Alloy + BC + SiC. <i>Materials</i> , <b>2021</b> , 14,	3.5	19
118	A Study on Performance and Emission Characteristics of Diesel Engine Using Ricinus Communis (Castor Oil) Ethyl Esters. <i>Energies</i> , <b>2021</b> , 14, 4320	3.1	6
117	Thermal and mechanical properties of titanium matrix composites synthesized through solid state technique. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 497-503	1.4	2
116	Investigation on mechanical characterization of titanium matrix composites produced through powder metallurgy. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 310-315	1.4	
115	Modelling and finite element analysis of anti-roll bar using ANSYS software. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 321-335	1.4	4
114	Modeling and fabrication of automatic blackboard dust remover. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 527-530	1.4	4
113	Role of cryogenic machining: A sustainable manufacturing process. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 316-320	1.4	1
112	A comparative study on coated carbide inserts performance in cryogenic end milling of AISI D2 tool steel. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 1389-1393	1.4	0
111	Cryogenic machining of AISI p20 steel under liquid nitrogen cooling. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 806-809	1.4	4
110	A novel design method for the conversion of air to water based on the 3D structure of Metal-Organic material. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 858-860	1.4	
109	Fabrication and Characterization of Acrylonitrile Butadiene Rubber and Stitched E-Glass Fibre Tailored Nano-Silica Epoxy Resin Composite. <i>Silicon</i> , <b>2021</b> , 13, 2509-2517	2.4	26
108	Modelling and manufacturing of light weight materials based stretcher cum wheelchair. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 707-711	1.4	1
107	Tensile and flexural behaviour of glass fibre reinforced plastic Aluminium hybrid laminate manufactured by vacuum resin transfer moulding technique (VARTM). <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2132-2140	1.4	7

106	Modeling and stress analysis of aluminium alloy based composite pressure vessel through ANSYS software. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 1911-1916	1.4	4
105	Design and analysis of two-cylinder exhaust manifold with improved performance in CFD. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2141-2144	1.4	1
104	Mechanical and tribological behaviour of AZ91/ZrSiO <sub>4</sub> composites. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 1529-1534	1.4	2
103	Assessment of performance and emission characteristics of diesel engine supplied with waste plastic oil propanol and ethylhexyl nitrate blends. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 3642-3646	1.4	4
102	Experimental investigation to study the performance of cryogenic cooling in end milling of AISI P20 steel. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2170-2173	1.4	
101	Fast Fourier Transform (FFT) analysis on different inter-ply configurations of glass/basalt/aramid/carbon hybridized composites for aircraft structures. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2375-2381	1.4	1
100	CFD modelling of carburetor with several valve positions. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 1535-1549	1.4	0
99	Vibration analysis of interply hybrid composite for an aircraft wing structure. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2368-2374	1.4	2
98	Enhancing the combustion and emission parameters of a C.I engine operated with diesel-butanol-pea nut oil ternary blends. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 1394-1398	1.4	
97	Studies on the effect of cryogenic machining of AISI D2 steel. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2391-2395	1.4	1
96	Characterization and Properties of Silicon Carbide Reinforced Ni-10Co-5Cr (Superalloy) Matrix Composite Produced Via Powder Metallurgy Route. <i>Silicon</i> , <b>2021</b> , 13, 973-984	2.4	8
95	Computational investigations on helical heat flow exchanger in automotive radiator tubes with computational fluid dynamics. <i>Materials Today: Proceedings</i> , <b>2021</b> , 37, 2352-2355	1.4	1
94	Effect of silanised reinforcements on thermal, wear, visco-elastic and fatigue behaviour of stitched E-glass fibre-reinforced epoxy hybrid composite. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , <b>2021</b> , 24, 41-50	0.9	1
93	Numerical investigation of expansion Fan optimization of truncated annular aerospike nozzle. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 4283-4288	1.4	
92	A review on puncture analysis of polymer composites. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 366-369	1.4	
91	Evaluation of mechanical properties of Arecanut and Kevlar fiber with epoxy resins. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 4250-4253	1.4	1
90	A review on different hybrid composites for aircraft structures. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	1
89	Novel Approach to Handling Microfiber-Rich Dye Effluent for Sustainable Water Conservation. <i>Advances in Civil Engineering</i> , <b>2021</b> , 2021, 1-10	1.3	4

88	Optimization of Process Parameters in CNC Turning of Aluminum 7075 Alloy Using L27 Array-Based Taguchi Method. <i>Materials</i> , <b>2021</b> , 14,	3.5	6
87	Microstructure, Mechanical Properties, and Corrosion Behavior of Boron Carbide Reinforced Aluminum Alloy (Al-Fe-Si-Zn-Cu) Matrix Composites Produced via Powder Metallurgy Route. <i>Materials</i> , <b>2021</b> , 14,	3.5	10
86	Mechanical and Abrasive Wear Performance of Titanium Di-Oxide Filled Woven Glass Fibre Reinforced Polymer Composites by Using Taguchi and EDAS Approach. <i>Materials</i> , <b>2021</b> , 14,	3.5	8
85	Finite Element Analysis of Temperature Distribution and Stress Behavior of Squeeze Pressure Composites. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-9	1.5	5
84	A Review on the significant classification of Additive Manufacturing. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012026	0.3	2
83	Performance and evaluation of vegetable oil-based fluids as future cutting fluids in turning of duplex stainless steel. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012005	0.3	1
82	Mechanical and water absorption behaviour of palm seed particles based hybrid bio-composites. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012006	0.3	1
81	Mechanical Properties of AlN and Molybdenum disulfide reinforced Aluminium Alloy Matrix Composites. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012010	0.3	1
80	Mechanical properties of waste silk fibre reinforced PLA bio composites manufactured through hand layup method. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012016	0.3	1
79	Optimization of forces of feed, cutting and thrust based contribution parameters in machining with cutting fluid. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012014	0.3	0
78	Wear properties of waste silk fibre reinforced PLA bio composites using taguchi technique. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012012	0.3	1
77	Optimization on end milling operating parameters for super alloy of Inconel 617 by Taguchi L27 orthogonal array. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012013	0.3	
76	Investigations on compressive strength of titanium diboride and graphite reinforced Magnesium Matrix Composites. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012009	0.3	0
75	Investigation on Heat Transfer Enhancement in Microchannel Using Al <sub>2</sub> O <sub>3</sub> /Water Nanofluids. <i>International Journal of Photoenergy</i> , <b>2021</b> , 2021, 1-9	2.1	3
74	Investigation of Mechanical Properties and Salt Spray Corrosion Test Parameters Optimization for AA8079 with Reinforcement of TiN + ZrO. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
73	Artificial neural network-based output power prediction of grid-connected semitransparent photovoltaic system. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	21
72	Experimental investigations on mechanical properties of cotton/hemp fiber reinforced epoxy resin hybrid composites. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2027, 012015	0.3	2
71	Comprehensive review on recycling of spent lithium-ion batteries. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 167-180	1.4	9

70	A literature review on friction stir welding of dissimilar materials. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 286-291	1.4	2
69	Structural and optical behavior of SnS <sub>2</sub> /NiFe <sub>2</sub> O <sub>4</sub> NCs prepared via novel two-step synthesis approach for MB and RhB dye degradation under sun light irradiation. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 1941-1954	2.8	2
68	Optimization of drilling process parameters of AA7150/MoO <sub>3</sub> composites using Taguchi method. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 251-256	1.4	
67	The investigation of the effect of nano particles on dry sliding wear and corrosion behavior of Al-Mg/Al <sub>2</sub> O <sub>3</sub> composites. <i>Surface Topography: Metrology and Properties</i> , <b>2021</b> , 9, 045046	1.5	1
66	Investigation of machining attributes on machining of alloys under nano fluid MQL environment: A review. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	1
65	3D Printing Manufacturing Techniques, Materials, and Applications: An Overview. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-10	1.5	2
64	Performance study on phase change material integrated solar still coupled with solar collector. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
63	Microstructural and tribological characteristics of AA6351/Si <sub>3</sub> N <sub>4</sub> composites manufactured by stir casting. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 14662-14672	5.5	5 <sup>1</sup>
62	Modeling and assessment of pump impeller. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3226-3233	1.4	2
61	Mechanical properties of a natural fiber reinforced with polylactic acid [Review]. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3061-3062	1.4	4
60	Fundamentals and development of self-driving cars. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3303-3310	1.4	7
59	Experimental investigation on wheel natural frequency performance using modal analysis in free and loaded condition. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3234-3242	1.4	4
58	Mechanical properties of titanium matrix composites fabricated via powder metallurgy method. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3243-3247	1.4	3
57	Experimental investigation of cryogenic cooling on cutting force, surface roughness and tool wear in end milling of hardened AISI D3 steel using uncoated tool. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3314-3318 <sup>2</sup>	1.4	3
56	Mechanical and corrosion behaviour of copper matrix composites fabricated by powder metallurgy process. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3394-3398	1.4	3
55	Optimization of shrinkage porosity in AlSi5Cu1Mg alloy using response surface methodology. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3072-3079	1.4	2
54	Experimental studies on the effect of LN <sub>2</sub> cooling on the machining of tool steel. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3292-3296	1.4	1
53	Experimental investigations on performance of TiN and TiAlN coated tools in cryogenic milling of AISI D2 hardened steel. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3612-3615	1.4	5

52	Mechanical Properties of AA7050/Coconut Shell Ash Composites Manufactured via Stir Casting Technique. <i>Springer Proceedings in Materials</i> , <b>2020</b> , 301-307	0.2	1
51	Investigations on microstructure and mechanical properties of Mg-5wt.% Cu-TiB <sub>2</sub> composites produced via powder metallurgy route. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , <b>2020</b> , 56, 99-108	1	59
50	Mechanical and microstructural characterization of AA7178-TiB <sub>2</sub> composites. <i>Materialprüfung/Materials Testing</i> , <b>2020</b> , 62, 146-150	1.9	94
49	Ergonomic Analysis of an Integrated Human Factor Assessment and Simulation in a Workplace Design. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2020</b> , 17, 3701-3704	0.3	
48	Microstructure and Mechanical Characterization of AA7150/ZrO <sub>2</sub> Composites Manufactured by Stir Casting Route. <i>Springer Proceedings in Materials</i> , <b>2020</b> , 341-348	0.2	
47	Physical, mechanical and wear performance of graphite (Gr) particles incorporated aluminium matrix composites [An overview <b>2020</b> ,		2
46	Machining of EN31 Steel Using Carbide Insert [A Statistical Approach. <i>Materials Today: Proceedings</i> , <b>2020</b> , 22, 2559-2564	1.4	39
45	Tungsten carbide particulate reinforced AA7050 aluminum alloy composites fabricated by liquid state processing <b>2020</b> ,		3
44	Investigational explorations on operation and emission features of C.I engine supplemented by Methyl Propanol and CycloPentyl Ether mixtures. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3297-3302	1.4	2
43	Investigation of SiC and Al <sub>2</sub> O <sub>3</sub> [Reinforced with aluminium composites-A review. <i>Materials Today: Proceedings</i> , <b>2020</b> ,	1.4	2
42	Augmentation of performance and Emission distinctiveness of heavy duty constant pressure combustion engine supplemented through n-butanol-mustard oil-diesel composition. <i>Materials Today: Proceedings</i> , <b>2020</b> ,	1.4	3
41	A review on performance enhancement of an CI engine using biodiesel blends with nano additives. <i>Materials Today: Proceedings</i> , <b>2020</b> ,	1.4	1
40	Aerodynamic braking system analysis of horizontal axis wind turbine using slotted airfoil. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 3970-3979	1.4	3
39	Performance and emissions characteristics of DI diesel engine using biodiesel blend with different injection pressures. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 4699-4702	1.4	3
38	Evaluation of tribological behaviour of AA7178/Gr composites using Taguchi optimization technique. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 4691-4695	1.4	0
37	Optimization of wear parameters of aluminium composites (AA7150/10 wt%WC) employing Taguchi approach. <i>Materials Today: Proceedings</i> , <b>2020</b> , 33, 4742-4745	1.4	5
36	Mechanical properties of alkali-treated Madar and Gongura fibre-reinforced polymer composites. <i>International Journal of Ambient Energy</i> , <b>2020</b> , 41, 849-850	2	12
35	Tribological and mechanical properties of Zirconium Di-boride (ZrB <sub>2</sub> ) particles reinforced aluminium matrix composites. <i>Materials Today: Proceedings</i> , <b>2020</b> , 21, 862-864	1.4	54



34	Performance analysis of DEE-Biodiesel blends in diesel engine. <i>International Journal of Ambient Energy</i> , <b>2019</b> , 1-5	2	12
33	Impact of nozzle opening pressure on the performance and emission behaviours of the CI engine using yellow oleander biodiesel. <i>International Journal of Ambient Energy</i> , <b>2019</b> , 1-7	2	8
32	Influence of AlN particles on microstructure, mechanical and tribological behaviour in AA6351 aluminum alloy. <i>Materials Research Express</i> , <b>2019</b> , 6, 106557	1.7	107
31	Synthesis and evaluation on mechanical properties of LM4/AlN alloy based composites. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2019</b> , 1-10	1.6	17
30	Experimental investigation on mechanical properties of AA7075-AlN composites. <i>Materialpruefung/Materials Testing</i> , <b>2019</b> , 61, 554-558	1.9	104
29	Processing and characterization of mechanical and wear behavior of Al7075 reinforced with B4C and nano graphene hybrid composite. <i>Materials Research Express</i> , <b>2019</b> , 6, 1265c5	1.7	40
28	Emission reduction technique on existing diesel engines using renewable fuels. <i>International Journal of Ambient Energy</i> , <b>2019</b> , 1-5	2	3
27	Physical and Tribological Behaviour of Dual Particles Reinforced Metal Matrix Composites. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 339-347	0.4	31
26	Study on mechanical properties of graphite particulates reinforced aluminium matrix composite fabricated by stir casting technique. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 2945-2950	1.4	57
25	Mechanical and tribological characterization of stir-cast Al-SiCpcomposites. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 1740-1746	1.4	55
24	Effect of silicon carbide reinforcement on mechanical and physical properties of aluminum matrix composites. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 2938-2944	1.4	51
23	Effect of ZrB2 content on mechanical and microstructural characterization of AA6063 aluminum matrix composites. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 13601-13605	1.4	70
22	Mechanical behavior of Al-matrix nanocomposites produced by stir casting technique. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 26873-26877	1.4	44
21	Optimization of tungsten inert gas welding parameters to. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 25112-25120	1.4	48
20	Microstructure and mechanical properties of hard ceramic particulate reinforced AA7075 alloy composites via liquid metallurgy route. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 26860-26865	1.4	105
19	Production, Microstructure and Mechanical behavior of AA6351/TiB 2 composite synthesized by direct melt reaction method. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 3315-3324	1.4	48
18	Mechanical behaviour of hybrid composite (AA6351+Al2O3+Gr) fabricated by stir casting method. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 3093-3101	1.4	65
17	Mechanical behavior of in situ ZrB 2 /AA2014 composite produced by the exothermic salt-metal reaction technique. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 3215-3221	1.4	52

16	Synthesis, characterization and properties of stir cast AA6351-aluminium nitride (AlN) composites. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 3824-3831	2.5	138
15	Study on Mechanical Properties of AA6351 Alloy Reinforced with Titanium Di-Boride (TiB <sub>2</sub> ) Composite by In Situ Casting Method. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 787, 583-587	0.3	19
14	Performance analysis of mixed vegetable oil as an alternative for transformer insulation oil. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1
13	Mechanical Properties and Characterization of Polylactic Acid/Carbon Fiber Composite Fabricated by Fused Deposition Modeling. <i>Journal of Materials Engineering and Performance</i> ,1	1.6	3
12	Optimization of CNC machining process parameters for AA2014/WC composite. <i>IOP Conference Series: Materials Science and Engineering</i> ,988, 012121	0.4	1
11	Optimization of Wear Parameters of aluminium composites (AA6082/12wt%ZrO <sub>2</sub> ) utilizing Taguchi technique. <i>IOP Conference Series: Materials Science and Engineering</i> ,988, 012124	0.4	0
10	A detailed study on improving the properties and performance aspects of biodiesel. <i>International Journal of Ambient Energy</i> ,1-5	2	2
9	CNC Machining parameters optimization of AA7050 with reinforcement of ZrO <sub>2</sub> composites. <i>IOP Conference Series: Materials Science and Engineering</i> ,988, 012120	0.4	1
8	Silane Grafted Nanosilica and Aramid Fibre-Reinforced Epoxy Composite: DMA, Fatigue and Dynamic Loading Behaviour. <i>Silicon</i> ,1	2.4	6
7	Microstructure and Mechanical Properties of Friction Stir Welded SiC/TiB <sub>2</sub> Reinforced Aluminum Hybrid Composites. <i>Silicon</i> ,1	2.4	6
6	Influence of Nanoparticles Reinforcements on Aluminium 6061 Alloys Fabricated via Novel Ultrasonic Aided Rheo-Squeeze Casting Method. <i>Metals and Materials International</i> ,1	2.4	6
5	Optimization of Parameters to Improve the Properties of AA7178/Si <sub>3</sub> N <sub>4</sub> Composites Employing Taguchi Approach. <i>Silicon</i> ,1	2.4	11
4	Influence of Stacking Sequence and Fiber Content on the Mechanical Properties of Natural and Synthetic Fibers Reinforced Penta-Layered Hybrid Composites. <i>Journal of Natural Fibers</i> ,1-13	1.8	36
3	Evaluation of Mechanical and Thermal Properties of Jute and Ramie Reinforced Epoxy-based Hybrid Composites. <i>Journal of Natural Fibers</i> ,1-11	1.8	32
2	Effect of Silicon Carbide on Microstructural, Mechanical and Corrosion Behavior of Electrolytic Copper Matrix Composite Produced by the Powder Metallurgy Route. <i>Silicon</i> ,1	2.4	1
1	Removal of heavy metals from wastewater using low-cost biochar prepared from jackfruit seed waste. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0