

Manickam Ravichandran

List of Publications by Year in descending order

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253
papers

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116194

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259
docs citations

259
times ranked

1691
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction welding of similar and dissimilar materials: A review. <i>Materials Today: Proceedings</i> , 2023, 81, 208-211.	0.9	7
2	Removing microplastics from wastewater using leading-edge treatment technologies: a solution to microplastic pollution—a review. <i>Bioprocess and Biosystems Engineering</i> , 2023, 46, 309-321.	1.7	18
3	Effect of Copper on Mechanical Properties and Corrosion Behavior of Powder Metallurgy Processed Ni-Co-Cr-Fe-Mn-Cu High Entropy Alloy. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 2905-2915.	1.7	6
4	Multi-objective optimisation of dry sliding wear control parameters for stir casted AA7075-TiO ₂ composites using Taguchi-Grey relational approach. <i>Australian Journal of Mechanical Engineering</i> , 2022, 20, 1453-1462.	1.5	5
5	Optimization of Parameters to Improve the Properties of AA7178/Si ₃ N ₄ Composites Employing Taguchi Approach. <i>Silicon</i> , 2022, 14, 1381-1394.	1.8	31
6	Experimental Investigations on Microstructure, Properties and Workability Behavior of Zinc Oxide Reinforced Al-Si-Mg Matrix Composites. <i>Silicon</i> , 2022, 14, 2175-2187.	1.8	7
7	Microstructure and Mechanical Properties of Friction Stir Welded SiC/TiB ₂ Reinforced Aluminum Hybrid Composites. <i>Silicon</i> , 2022, 14, 3571-3581.	1.8	13
8	Optimization of tribo-mechanical properties of boron carbide reinforced magnesium metal matrix composite. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2022, 236, 1814-1826.	1.0	7
9	Evaluation of Mechanical and Thermal Properties of Jute and Ramie Reinforced Epoxy-based Hybrid Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 8022-8032.	1.7	66
10	Experimental Investigations on the Mechanical Properties, Microstructure and Corrosion Effect of Cu-20Al-4Ni/SiC Composites Synthesized Using Powder Metallurgy Route. <i>Silicon</i> , 2022, 14, 5993-6002.	1.8	5
11	Effect of Silicon Carbide on Microstructural, Mechanical and Corrosion Behavior of Electrolytic Copper Matrix Composite Produced by the Powder Metallurgy Route. <i>Silicon</i> , 2022, 14, 5877-5886.	1.8	2
12	Features of hybrid laser-arc welding of GTD-111 superalloy compared to laser beam welding. <i>Materials Letters</i> , 2022, 309, 131384.	1.3	4
13	Review on phase change materials for solar energy storage applications. <i>Environmental Science and Pollution Research</i> , 2022, 29, 9491-9532.	2.7	52
14	Physical and mechanical properties of AA2219/BN composites. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	1
15	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> , 2022, 2022, 1-9.	1.0	17
16	Parametric analysis and simulation of surface roughness and tool flank wear in machining of low carbon alloy steel. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	1
17	Wear behavior of hydroxyapatite reinforced polymer composite for biomedical applications. <i>Surface Topography: Metrology and Properties</i> , 2022, 10, 015008.	0.9	2
18	Electrochemical corrosion and tribological behaviour of AA6063/Si ₃ N ₄ /Cu(NO ₃) ₂ composite processed using single-pass ECAPA route with 120° die angle. <i>Journal of Materials Research and Technology</i> , 2022, 16, 715-733.	2.6	24

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19	Mechanical and Durability Studies on Ficus exasperata Leaf Ash Concrete. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-10.	0.4	0
20	Microstructure, mechanical and wear behavior of LM24/SiC/MoS ₂ hybrid composites produced via liquid metallurgy process. <i>Surface Topography: Metrology and Properties</i> , 2022, 10, 015015.	0.9	2
21	Investigation on Inorganic Salts K ₂ TiF ₆ and KBF ₄ to Develop Nanoparticles Based TiB ₂ Reinforcement Aluminium Composites. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-13.	1.8	7
22	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> , 2022, 2022, 1-14.	1.5	2
23	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> , 2022, 2022, 1-13.	1.8	4
24	Wire Electrical Discharge Machining Characteristics of Al-4.4 Mg-0.7 Mn-0.15 Cr-12 wt.% MoO ₃ Composites Using Taguchi Technique. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-10.	1.0	1
25	Microstructure, mechanical and wear properties of boron carbide reinforced nickel alloy composites processed by bottom pouring type stir casting process. <i>Surface Topography: Metrology and Properties</i> , 2022, 10, 015041.	0.9	4
26	Experimental Investigations on Effect of Silicon Carbide on Microstructure and Mechanical Properties in Mg-3 wt% Al Alloy Matrix Using Powder Metallurgy. <i>Silicon</i> , 2022, 14, 9163-9173.	1.8	7
27	Evaluation of mechanical properties on kenaf fiber reinforced granite nano filler particulates hybrid polymer composite. <i>Materials Today: Proceedings</i> , 2022, 59, 1345-1348.	0.9	17
28	Prediction of tribological performance of AA8011/wt.%ZrO ₂ based composites fabricated by stir casting route. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 2420-2433.	1.4	4
29	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> , 2022, 2022, 1-12.	1.5	10
30	Synthesis and Workability Behavior of Cu-X wt.% TiC (x=0, 4, 8, and 12) Powder Metallurgy Composites. <i>Bioinorganic Chemistry and Applications</i> , 2022, 2022, 1-10.	1.8	3
31	Evaluation on Powder Metallurgy Process Parameters of Ball-Milled AA8079-B4C Nanostructured Composites via Taguchi Grey Relational Analysis. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	1.5	3
32	Evaluation of mechanical and wear properties of AA6063/(Si ₃ N ₄) ₆ “(12%)/(Cu ₂ O ₆) ₂ “(4% composite via PM route and optimization through robust design technique. <i>Materials Research Express</i> , 2022, 9, 076502.	0.8	7
33	Mechanical properties of basalt fabric plain and twill weave reinforced epoxy composites. <i>Materials Today: Proceedings</i> , 2021, 46, 9480-9483.	0.9	10
34	Optimization of powder metallurgy parameters of TiC- and B ₄ C-reinforced aluminium composites by Taguchi method. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2021, 45, 249-261.	0.3	8
35	Investigation of Material Removal Rate and Tool Wear Rate in Spark Erosion Machining of Al-Fe-Si Alloy Composite Using Taguchi Coupled TOPSIS Approach. <i>Silicon</i> , 2021, 13, 2529-2543.	1.8	16
36	Diffusion brazing of Inconel 617 and 321 stainless steel by using AMS 4772 Ag interlayer. <i>Journal of Manufacturing Processes</i> , 2021, 61, 383-395.	2.8	40

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37	Development of Mathematical Model for Predicting the Electric Erosion Behavior of TiO ₂ Filled Al-Zn-Mg-Cu (AA7075) Alloy Composite Using RSM-DFA Method. Journal of Advanced Manufacturing Systems, 2021, 20, 1-26.	0.4	10
38	Applicability of cellulose-based <i>Polyalthia longigolia</i> seed filler reinforced vinyl ester biocomposites on tribological performance. Polymer Composites, 2021, 42, 791-804.	2.3	25
39	Effect of titanium diboride ceramic particles on mechanical and wear behaviour of Cu-10 wt% W alloy composites processed by P/M route. Vacuum, 2021, 184, 109895.	1.6	39
40	Characterization and Properties of Silicon Carbide Reinforced Ni-10Co-5Cr (Superalloy) Matrix Composite Produced Via Powder Metallurgy Route. Silicon, 2021, 13, 973-984.	1.8	31
41	Experimental Investigation and Analysis of Properties and Dry Sliding Wear Behavior of Al-Fe-Si Alloy Matrix Composites. Silicon, 2021, 13, 1285-1294.	1.8	15
42	Nanomaterials Through Powder Metallurgy: Production, Processing, and Potential Applications Toward Energy and Environment. , 2021, , 859-897.		1
43	Minimization of nanoparticle deposition rate in a square duct with a 90° bend using taguchi technique. Applied Nanoscience (Switzerland), 2021, 11, 995-1008.	1.6	0
44	Mechanical properties on INCONEL 800H alloy by TIG welding process. Materials Today: Proceedings, 2021, , .	0.9	1
45	EFFECT OF MACHINING PARAMETERS ON SURFACE ROUGHNESS FOR ALLUMINIUM MATRIX COMPOSITE BY USING TAGUCHI METHOD WITH DECISION TREE ALGORITHM. Surface Review and Letters, 2021, 28, 2150021.	0.5	4
46	Variation of electrode materials and parameters in the EDM of an AA7075-TiO ₂ composite. Materialpruefung/Materials Testing, 2021, 63, 182-189.	0.8	6
47	Experimental analysis of solar concrete collector for residential buildings. International Journal of Green Energy, 2021, 18, 615-623.	2.1	42
48	Statistical analysis of END milling parameters on aluminium matrix composite: A grey relational approach. Materials Today: Proceedings, 2021, , .	0.9	1
49	Comprehensive review on various parameters that influence the performance of parabolic trough collector. Environmental Science and Pollution Research, 2021, 28, 22310-22333.	2.7	38
50	Synthesis and electrochemical behaviour of TiC- and B4C-reinforced Al-based metal matrix composite. Emerging Materials Research, 2021, 10, 24-32.	0.4	0
51	Modified friction stir clinching of AA6061-T6/AA5754-O joint: Effect of tool rotational speed and solution heat treatment on mechanical, microstructure, and fracture behaviors. Materials Characterization, 2021, 173, 110962.	1.9	35
52	Application of r-GO-MMT Hybrid Nanofillers for Improving Strength and Flame Retardancy of Epoxy/Glass Fibre Composites. Advances in Polymer Technology, 2021, 2021, 1-9.	0.8	17
53	Investigations on properties and tribological behavior of AlMg4.5Mn0.7(AA5083)-MoO3 composites prepared by stir casting method. Surface Topography: Metrology and Properties, 2021, 9, 025011.	0.9	6
54	Dieless Friction Stir Extrusion-Brazing (DFSE-B) of AA2024-T3 aluminum alloy to Copper with Zn interlayer. Results in Physics, 2021, 24, 104101.	2.0	36

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55	Modified Friction Stir Clinching of AA5754-O to AA6061-T6: The role of shoulder feature on the metallurgical and mechanical properties. Vacuum, 2021, 187, 110109.	1.6	20
56	Influence of EDM parameters on Al ₂ O ₃ & Gr reinforced aluminium matrix composites. Materials Today: Proceedings, 2021, . .	0.9	1
57	Effect of ZrB ₂ on microstructural, mechanical and corrosion behaviour of aluminium (AA7178) alloy matrix composite prepared by the stir casting route. Ceramics International, 2021, 47, 12951-12962.	2.3	78
58	Weldability and mechanical properties of AA5083-H112 aluminum alloy and pure copper dissimilar friction spot extrusion welding-brazing. Vacuum, 2021, 187, 110080.	1.6	51
59	Mechanical and Microstructural Characterization of Friction Stir Welded SiC and B ₄ C Reinforced Aluminium Alloy AA6061 Metal Matrix Composites. Materials, 2021, 14, 3110.	1.3	46
60	Graphene for Thermal Storage Applications: Characterization, Simulation and Modelling. Journal of Electronic Materials, 2021, 50, 5090.	1.0	2
61	Weldability Investigation and Optimization of Process Variables for TIG-Welded Aluminium Alloy (AA) Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	26
62	Study on Compaction and Machinability of Silicon Nitride (Si ₃ N ₄) Reinforced Copper Alloy Composite through P/M Route. International Journal of Polymer Science, 2021, 2021, 1-10.	1.2	8
63	A Study on Performance and Emission Characteristics of Diesel Engine Using Ricinus Communis (Castor Oil) Ethyl Esters. Energies, 2021, 14, 4320.	1.6	23
64	Investigation on electric erosion behavior of nickel-based super alloy (Waspaloy: Ni, Cr, Co, Mo, Ti, Al) using response surface methodology. Surface Topography: Metrology and Properties, 2021, 9, 035006.	0.9	18
65	Taguchi approach and decision tree algorithm for prediction of wear rate in zinc oxide-filled AA7075 matrix composites. Surface Topography: Metrology and Properties, 2021, 9, 035005.	0.9	17
66	Novel Approach to Handling Microfiber-Rich Dye Effluent for Sustainable Water Conservation. Advances in Civil Engineering, 2021, 2021, 1-10.	0.4	5
67	Diffusion brazing of 321 stainless steel to IN738 using 54Ag-40Cu-5.0Zn-1.0Ni powder-mixture interlayer. Materials Letters, 2021, 297, 129919.	1.3	12
68	Optimization of Process Parameters in CNC Turning of Aluminum 7075 Alloy Using L27 Array-Based Taguchi Method. Materials, 2021, 14, 4470.	1.3	33
69	Investigations on Microstructure, Mechanical, Thermal, and Tribological Behavior of Cu-MWCNT Composites Processed by Powder Metallurgy. Journal of Nanomaterials, 2021, 2021, 1-15.	1.5	8
70	Microstructure, Mechanical Properties, and Corrosion Behavior of Boron Carbide Reinforced Aluminum Alloy (Al-Fe-Si-Zn-Cu) Matrix Composites Produced via Powder Metallurgy Route. Materials, 2021, 14, 4315.	1.3	28
71	Additive Manufacturing of Biopolymers for Tissue Engineering and Regenerative Medicine: An Overview, Potential Applications, Advancements, and Trends. International Journal of Polymer Science, 2021, 2021, 1-20.	1.2	70
72	Mechanical and Abrasive Wear Performance of Titanium Di-Oxide Filled Woven Glass Fibre Reinforced Polymer Composites by Using Taguchi and EDAS Approach. Materials, 2021, 14, 5257.	1.3	31

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73	Finite Element Analysis of Temperature Distribution and Stress Behavior of Squeeze Pressure Composites. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-9.	1.0	7
74	A hybrid approach for prediction of machining performances of glass fiber reinforced plastic (Epoxy) composites. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 035046.	0.9	6
75	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> , 2021, 2027, 012005.	0.3	2
76	Mechanical and water absorption behaviour of palm seed particles based hybrid bio-composites. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012006.	0.3	2
77	Mechanical Properties of AlN and Molybdenum disulfide reinforced Aluminium Alloy Matrix Composites. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012010.	0.3	7
78	Mechanical properties of waste silk fibre reinforced PLA bio composites manufactured through hand layup method. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012016.	0.3	4
79	Optimization of forces of feed, cutting and thrust based contribution parameters in machining with cutting fluid. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012014.	0.3	1
80	Wear properties of waste silk fibre reinforced PLA bio composites using taguchi technique. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012012.	0.3	4
81	Optimization on end milling operating parameters for super alloy of Inconel 617 by Taguchi's L27 orthogonal array. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012013.	0.3	0
82	Investigations on compressive strength of titanium diboride and graphite reinforced Magnesium Matrix Composites. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012009.	0.3	3
83	Sustainable Development of Carbon Nanocomposites: Synthesis and Classification for Environmental Remediation. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-21.	1.5	43
84	Experimental investigations on mechanical properties of cotton/hemp fiber reinforced epoxy resin hybrid composites. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012015.	0.3	5
85	Tensile and impact strength of alpaca fiber epoxy matrix hybrid composites prepared by injection moulding process. <i>Journal of Physics: Conference Series</i> , 2021, 2027, 012011.	0.3	0
86	Analysis of surface roughness of rock dust reinforced AA6061 -Mg matrix composite in turning. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1669-1676.	5.5	3
87	Influence of material positioning during modified friction stir clinching brazing of Al/Zn/Cu welds. <i>Materials Letters</i> , 2021, 301, 130250.	1.3	7
88	Advancement of steam generation process in water tube boiler using Taguchi design of experiments. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101247.	2.8	16
89	Experimental investigations to improve the electrical efficiency of photovoltaic modules using different convection mode. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 48, 101582.	1.7	3
90	Investigation of Ku band microwave absorption of three-layer BaFe ₁₂ O ₁₉ , carbon-fiber@Fe ₃ O ₄ , and graphene@BaFe ₁₂ O ₁₉ @Fe ₃ O ₄ composite. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161045.	2.8	16

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91	Enhancement of Mechanical Properties on Novel Friction Stir Welded Al-Mg-Zn Alloy Joints Reinforced with Nano-SiC Particles. Journal of Nanomaterials, 2021, 2021, 1-10.	1.5	7
92	Optimization of FSP Process Parameters on AA5052 Employing the S/N Ratio and ANOVA Method. Advances in Materials Science and Engineering, 2021, 2021, 1-15.	1.0	6
93	Thermal and Flame Retardant Behavior of Neem and Banyan Fibers When Reinforced with a Bran Particulate Epoxy Hybrid Composite. Polymers, 2021, 13, 3859.	2.0	14
94	Combustion, Performance, and Emission Behaviors of Biodiesel Fueled Diesel Engine with the Impact of Alumina Nanoparticle as an Additive. Sustainability, 2021, 13, 12103.	1.6	37
95	Buckling Analysis of C-Stringer and Hat Stringer on the Load Carrying Vehicle. Lecture Notes in Mechanical Engineering, 2021, , 177-183.	0.3	2
96	Influence of Nanographite on Dry Sliding Wear Behaviour of Novel Encapsulated Squeeze Cast Al-Cu-Mg Metal Matrix Composite Using Artificial Neural Network. Journal of Nanomaterials, 2021, 2021, 1-14.	1.5	7
97	Influence of Compression Molding Process Parameters in Mechanical and Tribological Behavior of Hybrid Polymer Matrix Composites. Polymers, 2021, 13, 4195.	2.0	6
98	Mechanical Properties of Titanium Diboride Particles Reinforced Aluminum Alloy Matrix Composites: A Comprehensive Review. Advances in Materials Science and Engineering, 2021, 2021, 1-18.	1.0	10
99	The investigation of the effect of nano particles on dry sliding wear and corrosion behavior of Al-Mg/Al ₂ O ₃ composites. Surface Topography: Metrology and Properties, 2021, 9, 045046.	0.9	5
100	Investigation of machining attributes on machining of alloys under nano fluid MQL environment: A review. Materials Today: Proceedings, 2021, , .	0.9	5
101	3D Printing Manufacturing Techniques, Materials, and Applications: An Overview. Advances in Materials Science and Engineering, 2021, 2021, 1-10.	1.0	22
102	Influence of heat storage materials in a concentrated solar absorber for space heating. Materials Today: Proceedings, 2021, , .	0.9	0
103	Experimental investigations on properties of MoS ₂ and TiB ₂ reinforced aluminium composites. Materials Today: Proceedings, 2021, , .	0.9	0
104	Effect of EDM process parameters on material removal rate and surface roughness of metal matrix composites: A review. Materials Today: Proceedings, 2020, 21, 616-618.	0.9	4
105	Tribological and mechanical properties of Zirconium Di-boride (ZrB ₂) particles reinforced aluminium matrix composites. Materials Today: Proceedings, 2020, 21, 862-864.	0.9	66
106	Prediction of surface roughness and tool wear in milling process on brass (C26130) alloy by Taguchi technique. Materials Today: Proceedings, 2020, 21, 189-193.	0.9	10
107	Experimental investigation on influence of process parameter on friction stir processing of AA6082 using response surface methodology. Materials Today: Proceedings, 2020, 21, 231-236.	0.9	13
108	Experimental investigation on AW 106 Epoxy/E-Glass fiber/nano clay composite for wind turbine blade. Materials Today: Proceedings, 2020, 21, 202-205.	0.9	23

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109	A review on recent progresses in machining methods based on abrasive water jet machining. <i>Materials Today: Proceedings</i> , 2020, 21, 116-122.	0.9	27
110	Experimental investigation and characterization of brass “ AlN composites synthesized using powder metallurgy technique. <i>Materials Today: Proceedings</i> , 2020, 21, 164-168.	0.9	7
111	Hot tensile test for determining the material constant on superplastic 5083Al alloy sheet. <i>Materials Today: Proceedings</i> , 2020, 21, 324-328.	0.9	11
112	Optimization of brazing process parameters in butt joint of brass 319 using Taguchi method. <i>Materials Today: Proceedings</i> , 2020, 21, 237-243.	0.9	30
113	Study of tribological and water intake characteristics of epoxy based hybrid composite. <i>Materials Today: Proceedings</i> , 2020, 27, 729-735.	0.9	6
114	A review on recent advancements in fused deposition modeling. <i>Materials Today: Proceedings</i> , 2020, 27, 752-756.	0.9	49
115	Effect of cellulosic filler loading on mechanical and thermal properties of date palm seed/vinyl ester composites. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 53-66.	3.6	72
116	Magnesium matrix composite for biomedical applications through powder metallurgy “ Review. <i>Materials Today: Proceedings</i> , 2020, 27, 736-741.	0.9	22
117	Friction stir processing (FSP) of numerical study based on design of experiment-review. <i>Materials Today: Proceedings</i> , 2020, 27, 748-751.	0.9	5
118	Parametric studies on dry sliding wear behaviour of Al-7075 alloy matrix composite using S/N ratio and ANOVA analysis. <i>Materials Research Express</i> , 2020, 7, 016557.	0.8	24
119	A review on the categorization of the welding process of pure titanium and its characterization. <i>Materials Today: Proceedings</i> , 2020, 27, 742-747.	0.9	13
120	Parametric optimization for friction stir welding with AA2024 and AA6061 aluminium alloys by ANOVA and GRG. <i>Materials Today: Proceedings</i> , 2020, 27, 707-711.	0.9	10
121	Study of moisture absorption characteristics of jute fiber reinforced waste plastic filled polymer composite. <i>Materials Today: Proceedings</i> , 2020, 27, 712-717.	0.9	16
122	Effect of MoO ₃ ceramic oxide reinforcement particulates on the microstructure and corrosion behaviour of Al alloy composites processed by P/M route. <i>Materials Today Communications</i> , 2020, 25, 101655.	0.9	21
123	Investigation on properties of bahunia racemosa fiber and egg shell powder reinforced polymer composite. <i>Materials Today: Proceedings</i> , 2020, 33, 4084-4089.	0.9	6
124	Impact of adding various nano materials in the efficiency of single slope solar still: A review. <i>Materials Today: Proceedings</i> , 2020, 33, 3942-3946.	0.9	10
125	Evaluation of mechanical, thermal and water absorption behaviors of <i>Polyalthia longifolia</i> seed reinforced vinyl ester composites. <i>Carbohydrate Polymers</i> , 2020, 248, 116748.	5.1	40
126	Abrasive wear characteristics of bio-based jatropha oil cake incorporated basalt fiber reinforced epoxy composites. <i>Materials Today: Proceedings</i> , 2020, 33, 3947-3950.	0.9	4

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127	A comparative study on role of phase change materials in thermal efficiency enhancement of passive solar still. Materials Today: Proceedings, 2020, 33, 4159-4162.	0.9	3
128	Experimental investigation on properties of dissimilar laser welding of AISI 316L to monel 400. Materials Today: Proceedings, 2020, 33, 4059-4064.	0.9	2
129	Analysis of heat transfer in grooved plain carbon steel tube for solar applications. Materials Today: Proceedings, 2020, 33, 4219-4223.	0.9	3
130	Investigation of hardness characteristics of waste plastics and egg shell powder reinforced polymer composite by stirring route. Materials Today: Proceedings, 2020, 33, 4090-4093.	0.9	5
131	Study of ageing effect on mechanical properties of prosopis juliflora fibre reinforced palm seed powder filled polymer composite. Australian Journal of Mechanical Engineering, 2020, , 1-13.	1.5	7
132	Investigations on Mechanical Properties of Basalt Powder filled Vinyl Ester Composites. IOP Conference Series: Materials Science and Engineering, 2020, 988, 012094.	0.3	0
133	Effect of iron oxide and graphite reinforcement on mechanical properties of AA7075 hybrid composite. Materials Today: Proceedings, 2020, , .	0.9	3
134	Mechanical, microstructural evaluation and optimisation of laser welded AISI 316l and incoloy 825 (UNS SO8825) alloy. AIP Conference Proceedings, 2020, , .	0.3	2
135	Microstructural and tribological characteristics of AA6351/Si3N4 composites manufactured by stir casting. Journal of Materials Research and Technology, 2020, 9, 14662-14672.	2.6	117
136	Development of multiple cutting power hacksaw. AIP Conference Proceedings, 2020, , .	0.3	0
137	A Review on Tribological, Mechanical, Corrosion and Wear Characteristics of Stir Cast AA6061 Composites. Materials Today: Proceedings, 2020, 22, 2614-2621.	0.9	21
138	Investigations on characterization and properties of AA6063-Si3N4 composites fabricated through stir casting route. Materials Today: Proceedings, 2020, 22, 2631-2637.	0.9	16
139	Mechanical Properties, Characterization and Wear Behavior of Powder Metallurgy Composites - A Review. Materials Today: Proceedings, 2020, 22, 2582-2596.	0.9	35
140	Effect of Stir Casting Parameters on Properties of Cast Metal Matrix Composite. Materials Today: Proceedings, 2020, 22, 2606-2613.	0.9	29
141	Optimization of Powder Metallurgy Parameters for AA7072-MoO3 Composites through Taguchi Method. Materials Today: Proceedings, 2020, 22, 2622-2630.	0.9	52
142	Investigation on effect of machining parameters using TGRA approach for AISI 316 steel. Materials Today: Proceedings, 2020, 24, 1282-1291.	0.9	35
143	Optimization of machining parameters of EDM for $\hat{1}\pm\hat{1}^2$ brass using response surface methodology. Materials Today: Proceedings, 2020, 24, 1400-1409.	0.9	65
144	Theoretical predictions and experimental investigation on three stage hemispherical dome in superplastic forming process. Materials Today: Proceedings, 2020, 24, 1424-1433.	0.9	6

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145	Microstructure Analysis and Optimization of Parameters for Improved Properties in High Strength AA8079 (Al-Fe-Cu-Si-Zn). Physics of Metals and Metallography, 2020, 121, 374-381.	0.3	3
146	Investigations on properties of Mg-Al ₂ O ₃ composites fabricated via stir casting route. Materials Today: Proceedings, 2020, 27, 1132-1136.	0.9	4
147	Effect of chemical treatment on mechanical properties of prawn antenna reinforced waste plastic particulates filled polymer composites. Materials Today: Proceedings, 2020, 33, 3668-3675.	0.9	5
148	Role of phase changing materials and other parameters to enhance the thermal performance of solar still. Materials Today: Proceedings, 2020, 33, 3676-3682.	0.9	2
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