

T Sathish

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

5,907
citations

50170

46
h-index

76769

74
g-index

129
all docs

129
docs citations

129
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Wear behaviour analysis on aluminium alloy 7050 with reinforced SiC through taguchi approach. Journal of Materials Research and Technology, 2020, 9, 3481-3487.	2.6	361
2	Support vector machine for modelling and simulation of heat exchangers. Thermal Science, 2020, 24, 499-503.	0.5	233
3	Experimental investigation of machined hole and optimization of machining parameters using electrochemical machining. Journal of Materials Research and Technology, 2019, 8, 4354-4363.	2.6	157
4	Investigation of air conditioning temperature variation by modifying the structure of passenger car using computational fluid dynamics. Thermal Science, 2020, 24, 495-498.	0.5	153
5	Wire Arc Additive Manufacturing (WAAM) process of nickel based superalloys – A review. Materials Today: Proceedings, 2020, 21, 920-925.	0.9	148
6	Review on characterization and impacts of the lattice structure in additive manufacturing. Materials Today: Proceedings, 2020, 21, 916-919.	0.9	141
7	Microstructure and mechanical properties of hard ceramic particulate reinforced AA7075 alloy composites via liquid metallurgy route. Materials Today: Proceedings, 2018, 5, 26860-26865.	0.9	127
8	Optimal prediction of process parameters by GWO-KNN in stirring-squeeze casting of AA2219 reinforced metal matrix composites. Materials Today: Proceedings, 2020, 21, 1000-1007.	0.9	119
9	CNC turning process parameters optimization on Aluminium 6082 alloy by using Taguchi and ANOVA. Materials Today: Proceedings, 2020, 21, 1013-1021.	0.9	117
10	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
11	Design and Fabrication of Industrial Components Using 3D Printing. Materials Today: Proceedings, 2018, 5, 14489-14498.	0.9	116
12	Profit maximization in reverse logistics based on disassembly scheduling using hybrid bee colony and bat optimization. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 551-559.	0.3	116
13	BCCS Approach for the Parametric Optimization in Machining of Nimonic-263 alloy using RSM. Materials Today: Proceedings, 2018, 5, 14416-14422.	0.9	114
14	Parameters Optimization of Dissimilar Friction Stir Welding for AA7079 and AA8050 through RSM. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.0	114
15	Multi period disassembly-to-order of end of life product based on scheduling to maximize the profit in reverse logistic operation. FME Transactions, 2017, 45, 172-180.	0.7	113
16	Investigation of thermal conductivity and thermal resistance analysis on different combination of natural fiber composites of Banana, Pineapple and Jute. Materials Today: Proceedings, 2020, 21, 976-980.	0.9	105
17	Effect of Tool Profile Influence in Dissimilar Friction Stir Welding of Aluminium Alloys (AA5083 and) Tj ETQq1 1 0.784314 rgBT /Overlock	1.0	103
18	Heat Transfer Analysis Of Nano-fluid Flow In A Converging Nozzle With Different Aspect Ratios. Journal of New Materials for Electrochemical Systems, 2017, 20, 161-167.	0.3	102

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19	Parameters of Porosity and Compressive Strength-Based Optimization on Reinforced Aluminium from the Recycled Waste Automobile Frames. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-10.	1.0	101
20	A Review on Battery Modelling Techniques. <i>Sustainability</i> , 2021, 13, 10042.	1.6	100
21	Teaching learning optimization and neural network for the effective prediction of heat transfer rates in tube heat exchangers. <i>Thermal Science</i> , 2020, 24, 575-581.	0.5	98
22	Optimal hydraulic and thermal constrain for plate heat exchanger using multi objective wale optimization. <i>Materials Today: Proceedings</i> , 2020, 21, 876-881.	0.9	97
23	Modelling and analysis of different connecting rod material through finite element route. <i>Materials Today: Proceedings</i> , 2020, 21, 971-975.	0.9	96
24	Mechanical Strength and Fatigue Fracture Analysis on Al-Zn-Mg Alloy with the Influence of Creep Aging Process. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-5.	1.0	96
25	GAC-ANN Technique for Prediction of Spring Back Effect in Wipe Bending Process of Sheet Metal. <i>Materials Today: Proceedings</i> , 2018, 5, 14448-14457.	0.9	94
26	Investigations on influences of MWCNT composite membranes in oil refineries waste water treatment with Taguchi route. <i>Chemosphere</i> , 2022, 298, 134265.	4.2	94
27	Mechanical and wear behaviour of AA6061/SiC composites fabricated by powder metallurgy method. <i>Materials Today: Proceedings</i> , 2020, 21, 1008-1012.	0.9	93
28	ANN-AGCS for the prediction of temperature distribution and required energy in hot forging process using finite element analysis. <i>Materials Today: Proceedings</i> , 2020, 21, 263-267.	0.9	90
29	BONN Technique: Tribological Properties Predictor for Plasma Nitrided 316L Stainless Steel. <i>Materials Today: Proceedings</i> , 2018, 5, 14545-14552.	0.9	89
30	Strengthening mechanism of Nd: Yag laser shock peening for commercially pure titanium (CP-Ti) on surface integrity and residual stresses. <i>Materials Today: Proceedings</i> , 2020, 21, 981-987.	0.9	89
31	Influence of surface roughness in turning process " an analysis using artificial neural network. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2019, 43, 509-514.	0.3	88
32	Temperature distribution analysis on diffusion bonded joints of Ti-6Al-4V with AISI 4140 medium carbon steel. <i>Materials Today: Proceedings</i> , 2020, 21, 847-856.	0.9	86
33	Flower Pollination Algorithm for the optimization of stair casting parameter for the preparation of AMC. <i>Materials Today: Proceedings</i> , 2020, 21, 882-886.	0.9	85
34	Effect of ZrB2 content on mechanical and microstructural characterization of AA6063 aluminum matrix composites. <i>Materials Today: Proceedings</i> , 2018, 5, 13601-13605.	0.9	82
35	A review on the recent developments in modeling heat and material transfer characteristics during welding. <i>Materials Today: Proceedings</i> , 2020, 21, 908-911.	0.9	82
36	A systematic review of effect of different welding process on mechanical properties of grade 5 titanium alloy. <i>Materials Today: Proceedings</i> , 2020, 21, 948-953.	0.9	82

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37	Effect of reinforced aluminium alloy LM30 with pure ceramic particles to evaluate hardness and wear properties. <i>Materials Research Innovations</i> , 2020, 24, 129-132.	1.0	79
38	League championship optimization for the parameter selection for Mg/WC metal matrix composition. <i>Materials Today: Proceedings</i> , 2020, 21, 504-510.	0.9	79
39	Modeling of Support Vector Mechanism for Green Manufacturability Quantification of Production. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 391-397.	0.3	78
40	Optimization on Operation Parameters in Reinforced Metal Matrix of AA6066 Composite with HSS and Cu. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-12.	1.0	74
41	Analysis and modelling of dissimilar materials welding based on K-nearest neighbour predictor. <i>Materials Today: Proceedings</i> , 2020, 21, 108-112.	0.9	70
42	Prediction of springback effect by the hybridisation of ANN with PSO in wipe bending process of sheet metal. <i>Progress in Industrial Ecology</i> , 2018, 12, 112.	0.1	63
43	A comparative study on surface strengthening characterisation and residual stresses of dental alloys using laser shock peening. <i>International Journal of Ambient Energy</i> , 2021, 42, 1740-1745.	1.4	61
44	Improvement on Mechanical Properties of Submerged Friction Stir Joining of Dissimilar Tailor Welded Aluminum Blanks. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-6.	1.0	61
45	Fluid flow analysis of composite material-based wind turbine blades using Ansys. <i>International Journal of Ambient Energy</i> , 0, , 1-4.	1.4	58
46	Natural inspiration technique for the parameter optimization of A-GTAW welding of naval steel. <i>Materials Today: Proceedings</i> , 2020, 21, 843-846.	0.9	57
47	Mechanical and thermal properties of jute/aloevera hybrid natural fiber reinforced composites. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	51
48	Modelling of HCHS System for Optimal E-O-L Combination Section and Disassembly in Reverse Logistics. <i>Applied Mathematics and Information Sciences</i> , 2019, 13, 57-62.	0.7	46
49	Experimental investigation of plasma arc welded Ti-6Al-4V sheets. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2020, 44, 471-480.	0.3	41
50	Effect of 3D printing on supply chain management. <i>Materials Today: Proceedings</i> , 2020, 21, 958-963.	0.9	39
51	Optimizing Supply Chain in Reverse Logistics. <i>International Journal of Mechanical and Production Engineering Research and Development</i> , 2017, 7, 551-560.	0.1	36
52	Machining parameters optimization of Aluminium Alloy 6063 with reinforcement of SiC composites. <i>Materials Today: Proceedings</i> , 2020, 33, 2559-2563.	0.9	34
53	Synthesis and Characterization of Polypropylene/Ramie Fiber with Hemp Fiber and Coir Fiber Natural Biopolymer Composite for Biomedical Application. <i>International Journal of Polymer Science</i> , 2021, 2021, 1-8.	1.2	34
54	Optimization of Process Parameters in CNC Turning of Aluminum 7075 Alloy Using L27 Array-Based Taguchi Method. <i>Materials</i> , 2021, 14, 4470.	1.3	33

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55	HAIWF-based fault detection and classification for industrial machine condition monitoring. Progress in Industrial Ecology, 2018, 12, 46.	0.1	31
56	Experimental investigation on degradation of heat transfer properties of a black chromium-coated aluminium surface solar collector tube. International Journal of Ambient Energy, 2020, 41, 754-758.	1.4	31
57	Multi period disassembly-to-order of end-of-life product based on scheduling to maximise the profit in reverse logistic operation. International Journal of Logistics Systems and Management, 2017, 26, 402.	0.2	28
58	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
59	Weldability Investigation and Optimization of Process Variables for TIG-Welded Aluminium Alloy (AA) Tj ETQq1 1 0.784314 rgBT /Over	1.0	26
60	Prediction of human diseases using optimized clustering techniques. Materials Today: Proceedings, 2021, 46, 4258-4264.	0.9	26
61	A novel two-step co-precipitation approach of CuS/NiMn2O4 heterostructured nanocatalyst for enhanced visible light driven photocatalytic activity via efficient photo-induced charge separation properties. Physica B: Condensed Matter, 2021, 610, 412902.	1.3	25
62	Synthesize and characterizations of glass/treated selective sisal fiber hybrid composite. AIP Conference Proceedings, 2020, , .	0.3	24
63	A novel technique to design and production of coil spring in centre lathe. Materials Today: Proceedings, 2020, 33, 2521-2523.	0.9	23
64	Effect of inter-facial coupled contact forces in the multilayered pacemaker lead cable. AIP Conference Proceedings, 2020, , .	0.3	22
65	Synthesis and Optimization of AA 7175 " Zirconium Carbide (ZrC) Composites Machining Parameters. Journal of New Materials for Electrochemical Systems, 2021, 24, 34-37.	0.3	20
66	Multi-Agent Based Disassembly Sequencing and Planning for End-of-Life Products. Applied Mechanics and Materials, 2015, 813-814, 1193-1197.	0.2	19
67	Artificial Intelligence Based Green Manufacturability Quantification of a Unit Production Process. International Journal of Mechanical and Production Engineering Research and Development, 2019, 9, 841-852.	0.1	18
68	Influence of chemical treatment in synthesize and characterization sisal/glass hybrid composite. AIP Conference Proceedings, 2020, , .	0.3	17
69	Gravity Die Casting based analysis of aluminum alloy with AC4B Nano-composite. Materials Today: Proceedings, 2020, 33, 2555-2558.	0.9	17
70	Experimental Investigation on Tribological Behaviour of AA6066: HSS-Cu Hybrid Composite in Dry Sliding Condition. Advances in Materials Science and Engineering, 2022, 2022, 1-9.	1.0	16
71	Experimental study of chemical composition of aluminium alloys. Materials Today: Proceedings, 2021, 37, 1790-1793.	0.9	15
72	Improving the Mechanical Properties of Natural Fiber Composites of Hemp Fiber with Ramie and Banana Fiber through Compression Molding Method. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.0	15

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73	Investigation of Mechanical Properties and Salt Spray Corrosion Test Parameters Optimization for AA8079 with Reinforcement of TiN + ZrO ₂ . <i>Materials</i> , 2021, 14, 5260.	1.3	15
74	Mechanical properties and microstructural analysis of friction stir processed AA6056-zirconium dioxide (ZrO ₂). <i>Materials Today: Proceedings</i> , 2021, 37, 1804-1808.	0.9	14
75	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
76	Experimental investigation of temperature variation on flat plate collector by using silicon carbide as a nanofluid. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	13
77	Study on temperature difference of aluminium nitride nanofluid used in solar flat plate collector over normal water. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	13
78	Dwindling setup time through a low-cost mechanization – A case study. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	13
79	Investigation and optimization of laser welding process parameters for AA7068 aluminium alloy butt joint. <i>Materials Today: Proceedings</i> , 2021, 37, 1672-1677.	0.9	12
80	Flame Resistance Characteristics of Woven Jute Fiber Reinforced Fly Ash Filled Polymer Composite. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	1.5	12
81	Comparative study on addition of carbon fiber in concrete with partial replacement of demolished concrete waste in structural concrete. <i>Materials Today: Proceedings</i> , 2020, 33, 2585-2588.	0.9	11
82	Experimental investigation of convective heat transfer coefficient on nano particles mixture used in automobile radiator based on mass flow rate. <i>Materials Today: Proceedings</i> , 2020, 33, 2524-2529.	0.9	11
83	A facile synthesis of Ag/ZnO nanocomposites prepared via novel green mediated route for catalytic activity. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	11
84	Multiply of process speed, quality and safety through low-cost automation – A case study. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	10
85	Strength Enhancement Study on Composites of AA6066 Aluminium Alloy with Magnesium Oxide and Coal Ash. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-8.	1.0	9
86	Experimental investigation of hybrid fibre reinforced polymer composite material and its microstructure properties. <i>Materials Today: Proceedings</i> , 2021, 37, 1799-1803.	0.9	8
87	Synthesis, Mechanical, and Tribological Performance Analysis of Stir-Casted AA7079: ZrO ₂ +Si ₃ N ₄ Hybrid Composites by Taguchi Route. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-15.	1.0	8
88	Study on Compaction and Machinability of Silicon Nitride (Si ₃ N ₄) Reinforced Copper Alloy Composite through P/M Route. <i>International Journal of Polymer Science</i> , 2021, 2021, 1-10.	1.2	8
89	Investigation on Heat Transfer Enhancement in Microchannel Using Al ₂ O ₃ /Water Nanofluids. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-9.	1.4	8
90	Optimization of stir casting parameters for corrosion rate analysis of AA7068 – Boron carbide composites. <i>Materials Today: Proceedings</i> , 2020, 33, 4650-4655.	0.9	7

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91	Experimental investigation glass/sodium oxidanide treated banana fiber hybrid. AIP Conference Proceedings, 2020, , .	0.3	7
92	Finite Element Analysis of Temperature Distribution and Stress Behavior of Squeeze Pressure Composites. Advances in Materials Science and Engineering, 2021, 2021, 1-9.	1.0	7
93	Investigation on augmentation of mechanical properties of AA6262 aluminium alloy composite with magnesium oxide and silicon carbide. Materials Today: Proceedings, 2021, 46, 4322-4325.	0.9	7
94	Investigation on Inorganic Salts K ₂ TiF ₆ and KBF ₄ to Develop Nanoparticles Based TiB ₂ Reinforcement Aluminium Composites. Bioinorganic Chemistry and Applications, 2022, 2022, 1-13.	1.8	7
95	Modeling and fabrication of automatic blackboard dust remover. Materials Today: Proceedings, 2021, 37, 527-530.	0.9	6
96	Characterization of hybrid Aloe Vera/Bamboo/Palm/Kevlar fibers for better mechanical properties. Materials Today: Proceedings, 2021, 37, 2223-2227.	0.9	6
97	Experimental investigation on material characterization of zirconia reinforced Alumina ceramic composites via powder forming process. AIP Conference Proceedings, 2020, , .	0.3	6
98	Analysis and design of smart paper punching machine for spiral binding. Materials Today: Proceedings, 2020, 33, 2564-2566.	0.9	5
99	Optimization of Reinforced Aluminium Scraps from the Automobile Bumpers with Nickel and Magnesium Oxide in Stir Casting. Advances in Materials Science and Engineering, 2021, 2021, 1-10.	1.0	5
100	Air pollution control water heater by using paraffin wax from municipal wastes. Materials Today: Proceedings, 2020, 33, 2530-2534.	0.9	4
101	Design and simulation of wind turbine on rail coach for power generation. Materials Today: Proceedings, 2020, 33, 2535-2539.	0.9	4
102	Wear properties of waste silk fibre reinforced PLA bio composites using taguchi technique. Journal of Physics: Conference Series, 2021, 2027, 012012.	0.3	4
103	Investigation on waste tyre oil with diesel for detection of density, kinematic and dynamic viscosities evaluation of various combinations in volume basis. AIP Conference Proceedings, 2020, , .	0.3	4
104	Investigating Influences of Synthesizing Eco-Friendly Waste-Coir-Fiber Nanofiller-Based Ramie and Abaca Natural Fiber Composite Parameters on Mechanical Properties. Bioinorganic Chemistry and Applications, 2022, 2022, 1-13.	1.8	4
105	Modelling and manufacturing of light weight materials based stretcher cum wheelchair. Materials Today: Proceedings, 2021, 37, 707-711.	0.9	3
106	Microstructural and mechanical properties of copper matrix composites. Materials Today: Proceedings, 2021, 37, 1437-1441.	0.9	3
107	Finite element analysis of a human foot. Materials Today: Proceedings, 2021, 46, 4265-4270.	0.9	3
108	Comparison of yield strength, ultimate tensile strength and shear strength on the annealed and heat-treated composites of stainless steel with fly ash and ZnO. Materials Today: Proceedings, 2021, 46, 4305-4308.	0.9	3

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109	Investigations on compressive strength of titanium diboride and graphite reinforced Magnesium Matrix Composites. Journal of Physics: Conference Series, 2021, 2027, 012009.	0.3	3
110	Evaluation of MWCNT Particles-Reinforced Magnesium Composite for Mechanical and Catalytic Applications. Bioinorganic Chemistry and Applications, 2022, 2022, 1-13.	1.8	3
111	Synthesis and Workability Behavior of Cu-X wt.% TiC (x=0, 4, 8, and 12) Powder Metallurgy Composites. Bioinorganic Chemistry and Applications, 2022, 2022, 1-10.	1.8	3
112	Utilization of Polymer Composite for Development of Sustainable Construction Material. Advances in Materials Science and Engineering, 2022, 2022, 1-15.	1.0	3
113	Machining parameters optimization of surface roughness analysis for AA5083 + Boron carbide (B4C) composites. Materials Today: Proceedings, 2020, 33, 4642-4645.	0.9	2
114	Computational analysis of INVELOX wind turbine to analyze the venturi velocity by change the parameter of diffuser. Materials Today: Proceedings, 2021, 46, 4245-4249.	0.9	2
115	Mechanical and water absorption behaviour of palm seed particles based hybrid bio-composites. Journal of Physics: Conference Series, 2021, 2027, 012006.	0.3	2
116	Experimental study about flash and fire point comparison on three combinations of waste tyre oil with diesel for alternate fuel properties identification. AIP Conference Proceedings, 2020, , .	0.3	1
117	Microstructural analysis of Friction stir welded AA 7010 + Titanium Diboride (TiB ₂) reinforced Composites. Materials Today: Proceedings, 2020, 33, 4663-4665.	0.9	1
118	Optimization of forces of feed, cutting and thrust based contribution parameters in machining with cutting fluid. Journal of Physics: Conference Series, 2021, 2027, 012014.	0.3	1
119	Numerical analysis of cardiac lead due to internal cable motion. AIP Conference Proceedings, 2020, , .	0.3	1
120	Exploration on Surface Roughness in Abrasive Water Jet Cutting of AA6063-TiC Composites for Vehicle Structural Applications. International Journal of Vehicle Structures and Systems, 2020, 11, .	0.1	1
121	Synthesis and Optimization of Deesterified Acacia-Alginate Nanohydrogel for Amethopterin Delivery. Bioinorganic Chemistry and Applications, 2022, 2022, 1-10.	1.8	1
122	Study an implementation of rack and pinion in the wash basin for hygienic hand washing. Materials Today: Proceedings, 2020, 33, 2547-2549.	0.9	0
123	Optimization of wing structure using carbon fibre on a combined shell blended wing body. Materials Today: Proceedings, 2021, 46, 4240-4244.	0.9	0
124	Optimization on end milling operating parameters for super alloy of Inconel 617 by Taguchi's L27 orthogonal array. Journal of Physics: Conference Series, 2021, 2027, 012013.	0.3	0
125	Tensile and impact strength of alpaca fiber epoxy matrix hybrid composites prepared by injection moulding process. Journal of Physics: Conference Series, 2021, 2027, 012011.	0.3	0
126	Statistical analysis of electrodeposited nickel coating to S275JR grade mild steel. Materials Today: Proceedings, 2021, 46, 4159-4164.	0.9	0

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127	A Facile Synthesis of MgFe ₂ O ₄ /ZnS Heterojunction with Effectively Enhanced Visible Light Photocatalytic Activity for Degradation of Methylene Blue and Crystal Violet Dyes. Journal of Cluster Science, 0, , .	1.7	0