Rathinasamy Saravanan

List of Publications by Year
in descending order

67	825	567281	501196
papers	citations	15 h-index	28 g-index

68	68	68	410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	4.1	4
2	Synthesis of Zinc oxide and CNT in AA7178 aluminium alloy composite impression on characteristics. Materials Today: Proceedings, 2022, , .	1.8	1
3	Evaluation on hardness and percentage of elongation discrepancy by Zinc oxide nanoparticles on AA6070 alloy composites. Materials Today: Proceedings, 2022, , .	1.8	1
4	Influence of molybdenum disulfide particlesâ€™ concentration on waste cooking oil nano fluid coolant in cutting force reduction on machining SAE 1144 steel. Materials Today: Proceedings, 2022, , .	1.8	1
5	Investigations on influences of MWCNT composite membranes in oil refineries waste water treatment with Taguchi route. Chemosphere, 2022, 298, 134265.	8.2	94
6	Feed force based optimization of process parameters by bio-nanofluid for machining SAE 1045 steel. Materials Today: Proceedings, 2022, , .	1.8	0
7	Reconnoitering the influence of nanofluid of GnPs enriched waste coconut oil in machining SAE 1045 shaft on modification surface finish. Materials Today: Proceedings, 2022, , .	1.8	0
8	Comparing green Machining and clean technology based Machining for tool wear reduction in Machining SAE 1045 steel. Materials Today: Proceedings, 2022, 62, 1308-1313.	1.8	1
9	Taguchi based parameter optimization for cutting force reduction in SAE 1045 steel machining with nanofluid. Materials Today: Proceedings, 2022, , .	1.8	2
10	Experimental analysis on Feed force reduction performance by Nanofluid of Graphene Nano platelets enriched Waste Coconut Oil in wet Machining of SAE 1045 Steel Shaft. Materials Today: Proceedings, 2022, , .	1.8	0
11	Reconnoitering the influence of Nano fluid of Nano boracic acid particles enriched waste coconut oil in Machining SAE 1045 shaft on modification Surface finish. Materials Today: Proceedings, 2022, 62, 1330-1335.	1.8	1
12	Experimentally exploring nano-fluid of GnPs enriched waste coconut oil effects in cutting zone temperature reduction in motor shaft manufacturing process. Materials Today: Proceedings, 2022, , .	1.8	0
13	Experimental investigations on synthesis and characterization of tamarind seed powder reinforced Bio- composites. Materials Today: Proceedings, 2022, 64, 760-764.	1.8	2
14	Experimentally exploring nano-fluid of alumina nano-particles enriched waste coconut oil effects in cutting zone temperature reduction in motor shaft manufacturing process. Materials Today: Proceedings, 2022, 64, 744-748.	1.8	1
15	Optimizing WEDM Parameters on Nano-SiC-Gr Reinforced Aluminum Composites Using RSM. Advances in Materials Science and Engineering, 2022, 2022, 1-11.	1.8	29
16	An investigation of the effects of hot rolling on the microstructure and mechanical behavior of nano-sized SiC particulates reinforced Al6063 alloy composites. Materials Today: Proceedings, 2022, 64, 731-736.	1.8	6
17	Experimental investigation on tool wear reduction by nano- alumina particles enriched waste coconut oil nano-fluid for machining SAE 1045 shaft. Materials Today: Proceedings, 2022, , .	1.8	2
18	Experimental analysis on Feed force reduction performance by nano fluid of nano- alumina particles enriched waste coconut oil in wet machining of SAE 1045 steel shaft. Materials Today: Proceedings, 2022, , .	1.8	0

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19	Experimentally investigating cutting force reduction performance by nano-alumina particles enriched waste coconut oil Nano fluid in electric motor shaft manufacturing. Materials Today: Proceedings, 2022, , .	1.8	2
20	Synthesis and Characterization of Mechanical Properties and Wire Cut EDM Process Parameters Analysis in AZ61 Magnesium Alloy + B4C + SiC. Materials, 2021, 14, 3689.	2.9	45
21	Nano-alumina reinforcement on AA 8079 acquired from waste aluminium food containers for altering microhardness and wear resistance. Journal of Materials Research and Technology, 2021, 14, 1494-1503.	5.8	17
22	Investigation of appropriateness of coated steel piston for aluminium alloy piston for small engines. International Journal of Ambient Energy, 2020, 41, 1293-1298.	2.5	5
23	Numerical exploration of heat transfer in a heat exchanger tube with cone shape inserts and Al2O3 and CuO nanofluids. Materials Today: Proceedings, 2020, 21, 940-947.	1.8	18
24	Synthesis and characterization of treated banana fibers and selected jute fiber based hybrid composites. Materials Today: Proceedings, 2020, 21, 988-992.	1.8	17
25	SPM is a right choice for improving quality and reliability and reduction of cost and manufacturing time â€“ A case study. Materials Today: Proceedings, 2020, 21, 993-999.	1.8	5
26	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, , .	0.4	1
27	Experimental exploration on influence of gas nitriding and chromium coated piston rings in reduction of wear and lubricant consumption in petrol engines. AIP Conference Proceedings, 2020, , .	0.4	1
28	Influence of chemical treatment in synthesize and characterization sisal/glass hybrid composite. AIP Conference Proceedings, 2020, , .	0.4	17
29	Exploration of suitability of material for helical coil spring of automobile light vehicle suspension â€“ A numerical validation. AIP Conference Proceedings, 2020, , .	0.4	0
30	Experimental investigation glass/sodium oxidanide treated banana fiber hybrid. AIP Conference Proceedings, 2020, , .	0.4	7
31	Multiply of process speed, quality and safety through low-cost automation â€“ A case study. AIP Conference Proceedings, 2020, , .	0.4	10
32	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, , .	0.4	4
33	Experimental investigation on material characterization of zirconia reinforced Alumina ceramic composites via powder forming process. AIP Conference Proceedings, 2020, , .	0.4	6
34	Experimental investigation of temperature variation on flat plate collector by using silicon carbide as a nanofluid. AIP Conference Proceedings, 2020, , .	0.4	13
35	Study on temperature difference of aluminium nitride nanofluid used in solar flat plate collector over normal water. AIP Conference Proceedings, 2020, , .	0.4	13
36	Synthesize and characterizations of glass/treated selective sisal fiber hybrid composite. AIP Conference Proceedings, 2020, , .	0.4	24

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37	Dwindling setup time through a low-cost mechanization â€“ A case study. AIP Conference Proceedings, 2020, , .	0.4	13
38	Exploration of appropriateness of material for diaphragm spring of an automobile clutch â€“ A numerical validation. AIP Conference Proceedings, 2020, , .	0.4	0
39	Synthesize and characterization of fly ash based nanocomposites. AIP Conference Proceedings, 2020, , .	0.4	0
40	Six sigmaâ€™s ECRS technique to down cost and time of manufacturing â€“ An experimental investigation. AIP Conference Proceedings, 2020, , .	0.4	1
41	Structural exploration for materialsâ€™ validity of suspension manifold of two-wheeler. AIP Conference Proceedings, 2020, , .	0.4	0
42	Exploration of appropriateness of material for impeller of turbocharger â€“ A numerical validation. AIP Conference Proceedings, 2020, , .	0.4	1
43	CFD based shape optimization of axisymmetric cavitators in supercavitating flows. AIP Conference Proceedings, 2020, , .	0.4	0
44	Lamina designs in ABAQUSâ€“a validated approach. AIP Conference Proceedings, 2020, , .	0.4	0
45	Effect of hot extrusion on mechanical behaviour of boron nitride reinforced aluminium 6061-based metal matrix composites. International Journal of Materials Engineering Innovation, 2019, 10, 135.	0.5	15
46	Synthesize and Characterization of Maleic acid Treated Banana Fiber Composites. Materials Today: Proceedings, 2019, 18, 5382-5387.	1.8	8
47	Numerical Investigation of Toggle Assembly of Landing Gears in Aircraft: Technical note. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	4
48	Challenges in Turbomatching - An Ample Review. International Journal of Vehicle Structures and Systems, 2019, 11, .	0.2	0
49	Numerical Exploration of Influence of Phase Changing Material in Heat Transfer Augmentation in the Double Tube Heat Exchanger. International Journal of Engineering and Technology(UAE), 2018, 7, 162.	0.3	1
50	Cast Off expansion plan by rapid improvement through Optimization tool design, Tool Parameters and using Six Sigmaâ€™s ECRS Technique. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012016.	0.6	4
51	Restructured review on Electrical Discharge Machining - A state of the art. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012015.	0.6	14
52	Improvement of Productivity in TIG Welding Plant by Equipment Design in Orbit. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012020.	0.6	6
53	Critical Machine Based Scheduling -A Review. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012027.	0.6	0
54	Heuristic for Critical Machine Based a Lot Streaming for Two-Stage Hybrid Production Environment. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012030.	0.6	0

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55	Effect on air quality and flow rate of fresh water production in humidification and dehumidification system. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012032.	0.6	1
56	Case Study of Cycle Time Reduction by Mechanization in Manufacturing Environment. IOP Conference Series: Materials Science and Engineering, 2017, 183, 012023.	0.6	4
57	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.	1.4	113
58	A case study on effect of grouping technique in a multi-stage hybrid flow shop. International Journal of Computing Science and Mathematics, 2016, 7, 42.	0.3	5
59	Experimental Investigation of Influence of Sewing Type -Z Axis Reinforcement on Epoxy/Glass Fibre Composite. Journal of Advances in Mechanical Engineering and Science, 2016, 2, 20-30.	0.1	5
60	Is Kevlar29/Epoxy Composite an Alternate for Drive Shaft?. Journal of Advances in Mechanical Engineering and Science, 2016, 2, 1-13.	0.1	2
61	Experimental Investigation of EN-31 Steel Surface Grinding Performance with Al₂O₃ and CuO Nano Fluids. Journal of Advanced Microscopy Research, 2015, 10, 284-291.	0.3	16
62	Mechanical and Surface Morphological Investigation on Duplex Ageing Behaviour of Al (7075) Alâ€“Znâ€“Mgâ€“Cu Alloy. Journal of Advanced Microscopy Research, 2015, 10, 296-302.	0.3	9
63	Particle swarm optimization (PSO) algorithm for optimal machining allocation of clutch assembly. International Journal of Advanced Manufacturing Technology, 2006, 27, 865-869.	3.0	37
64	Application of particle swarm optimisation in artificial neural network for the prediction of tool life. International Journal of Advanced Manufacturing Technology, 2006, 28, 1084-1088.	3.0	33
65	Prediction of cutting force and temperature rise in the end-milling operation. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 1577-1587.	2.4	31
66	Optimization of cutting conditions during continuous finished profile machining using non-traditional techniques. International Journal of Advanced Manufacturing Technology, 2005, 26, 30-40.	3.0	47
67	Machining Parameters Optimisation for Turning Cylindrical Stock into a Continuous Finished Profile Using Genetic Algorithm (GA) and Simulated Annealing (SA). International Journal of Advanced Manufacturing Technology, 2003, 21, 1-9.	3.0	104