Senthilkumar N

List of Publications by Year
in descending order

		331670	414414
55	1,281	21	32
papers	citations	h-index	g-index

57	57	57	623
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comprehensive review on biodegradable polylactic acid polymer matrix composite material reinforced with synthetic and natural fibers. Materials Today: Proceedings, 2023, 80, 2829-2839.	1.8	32
2	Sintering parameters consequence on microstructure and hardness of copper alloy prepared by powder metallurgy. Materials Today: Proceedings, 2023, 80, 2468-2473.	1.8	14
3	A critical evaluation of additive blended cashew nut shell liquid blended biodiesel performance in compression ignition engine. Environment, Development and Sustainability, 2023, 25, 61-75.	5.0	4
4	Cashew nut shell liquid as alternate fuel for CI engineâ€"optimization approach for performance improvement. Biomass Conversion and Biorefinery, 2022, 12, 1715-1728.	4.6	19
5	Sliding-friction wear of a seashell particulate reinforced polymer matrix composite: modeling and optimization through RSM and Grey Wolf optimizer. Transactions of the Canadian Society for Mechanical Engineering, 2022, 46, 329-345.	0.8	8
6	Plasma Spray Coating of Aluminumâ€“Silicon-MWCNT Blends on Titanium Grade 5 Alloy Substrate for Enhanced Wear and Corrosion Resistance. Silicon, 2022, 14, 8629-8641.	3.3	12
7	Ameliorating the Wear Defiance of HVOF Thermal Spray Silicon Carbide Coated Ti-6Al-4V Alloy Using PCA-GRA Technique. Silicon, 2022, 14, 3101-3117.	3.3	13
8	Experimental analysis and optimization on machining of coated carbon fiber and nanoclay reinforced aluminum hybrid composites. Carbon Letters, 2022, 32, 815-833.	5.9	13
9	Influence of process parameters on the microstructure and mechanical properties of friction stir welds of AA2014 and AA6063 aluminium alloys using response surface methodology. Materials Research Express, 2022, 9, 026528.	1.6	29
10	Remediation of heavy metal polluted waters using activated carbon from lignocellulosic biomass: An update of recent trends. Chemosphere, 2022, 302, 134825.	8.2	53
11	A study on effect of primary and secondary reinforcements in hybrid metal matrix composite. AIP Conference Proceedings, 2022, , .	0.4	3
12	Abrasive wear and corrosion behavior of hybrid AMMCS reinforced with solid lubricant and ceramic particulates. AIP Conference Proceedings, 2022, , .	0.4	5
13	Biogas from food waste through anaerobic digestion: optimization with response surface methodology. Biomass Conversion and Biorefinery, 2021, 11, 227-239.	4.6	49
14	Enhancement of energy storage capacity in lithium polymer batteries incorporated with zirconium oxide nano powders. Materials Today: Proceedings, 2021, 37, 1313-1319.	1.8	5
15	Effect of solid concentration on biogas production through anaerobic digestion of rapeseed oil cake. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 1329-1336.	2.3	22
16	Synthesis and Characterization of Silicon Nitride Reinforced Alâ€“Mgâ€“Zn Alloy Composites. Metals and Materials International, 2021, 27, 3058-3069.	3.4	52
17	Implications of SiC/Al2O3 Reinforced Al-Mg-Zn Alloy Hybrid Nano Composites Using Vacuum Sintering Method. Silicon, 2021, 13, 3639-3647.	3.3	37
18	Prediction of Dry Sliding Wear Response of AlMg1SiCu/Silicon Carbide/Molybdenum Disulphide Hybrid Composites Using Adaptive Neuro-Fuzzy Inference System (ANFIS) and Response Surface Methodology (RSM). Arabian Journal for Science and Engineering, 2021, 46, 12045-12063.	3.0	21

#	Article	IF	Citations
19	Tensile and flexural behaviour of rice husk and sugarcane bagasse reinforced polyester composites. Materials Today: Proceedings, 2021, 46, 3451-3454.	1.8	18
20	Experimental investigation of sliding wear behaviour of boron carbide and mica reinforced aluminium alloy hybrid metal matrix composites using Box-Behnken design. Materials Today: Proceedings, 2021, 44, 3803-3810.	1.8	7
21	Drilling Parameters Analysis on In-Situ Al/B4C/Mica Hybrid Composite and an Integrated Optimization Approach Using Fuzzy Model and Non-Dominated Sorting Genetic Algorithm. Metals, 2021, 11, 2060.	2.3	24
22	Surface modification of AZ61 Magnesium Alloy with Nano TiO2/Al2O3 using Laser Cladding Technique. Materials Today: Proceedings, 2020, 21, 717-721.	1.8	10
23	Mode-1 fracture toughness analysis of coffee bean powder reinforced polymer composite. Materials Today: Proceedings, 2020, 21, 537-542.	1.8	16
24	Optimising the wear performance of HVOF thermal spray coated Ti-6Al-4V alloy by grey relational approach. International Journal of Rapid Manufacturing, 2020, 9, 25.	0.5	13
25	An investigation on microstructure and mechanical behaviour of copper-nickel coated carbon fibre reinforced aluminium composites. Materials Research Express, 2020, 7, 115701.	1.6	38
26	Vibration and Damping Behavior of Si3N4 Reinforced Magnesium Alloy Composite for Structural Applications. Journal of New Materials for Electrochemical Systems, 2020, 23, 182-189.	0.6	19
27	Investigation and optimization of machining parameters influence on surface roughness in turning AISI 4340 steel. FME Transactions, 2020, 48, 383-390.	1.4	26
28	Investigations of Micro-Milling Parameters in Woven Banana Fibre Reinforced Polymer Composite Filled with Rice Bran Particles. International Journal of Vehicle Structures and Systems, 2020, 12, .	0.2	1
29	Taguchiâ€™s methodology of optimizing turning parameters over chip thickness ratio in machining P/M AMMC. SN Applied Sciences, 2019, 1, 1.	2.9	58
30	A study on machinability evaluation of Al-Gr-B<SUB align="right">4C MMC using response surface methodology-based desirability analysis and artificial neural network technique. International Journal of Rapid Manufacturing, 2019, 8, 95.	0.5	20
31	Multi-response optimization of dry sliding wear parameters of AA6026 using hybrid gray relational analysis coupled with response surface method. Measurement and Control, 2019, 52, 540-553.	1.8	56
32	Surface modification of AZ61 magnesium alloy with nano-Al<SUB align="right">2O<SUB align="right">3 using laser cladding technique: optimisation of wear properties through hybrid GRA-PCA. International Journal of Rapid Manufacturing, 2019, 8, 221.	0.5	13
33	A critical appraisal in smart material fabrication for smart systems. , 2019, , .		2
34	A study on machinability evaluation of Al-Gr-B<SUB align="right">4C MMC using response surface methodology-based desirability analysis and artificial neural network technique. International Journal of Rapid Manufacturing, 2019, 8, 95.	0.5	5
35	Surface modification of AZ61 magnesium alloy with nano-Al<SUB align="right">2O<SUB align="right">3 using laser cladding technique: optimisation of wear properties through hybrid GRA-PCA. International Journal of Rapid Manufacturing, 2019, 8, 221.	0.5	1
36	Evaluation of Mechanical and Tribological Behavior of Alâ€“4Â%Cuâ€“xÂ%SiC Composites Prepared Through Powder Metallurgy Technique. Transactions of the Indian Institute of Metals, 2017, 70, 1305-1315.	1.5	55

#	Article	IF	Citations
37	Influence of dimethoxymethane addition on performance, emission and combustion characteristics of the diesel engine. International Journal of Ambient Energy, 2017, 38, 622-626.	2.5	38
38	Optimization and performance analysis of process parameters during anaerobic digestion of food waste using hybrid GRA-PCA technique. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	30
39	Machinability evaluation of Alâ€“4%Cuâ€“7.5%SiC metal matrix composite by Taguchiâ€“Grey relational analysis and NSGA-II. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 1219-1234.	1.3	27
40	Flank wear and surface roughness prediction in hard turning via artificial neural network and multiple regressions. Australian Journal of Mechanical Engineering, 2015, 13, 31-45.	2.1	19
41	An Accelerated Particle Swarm Optimization Algorithm on Parametric Optimization of WEDM of Die-Steel. Journal of the Institution of Engineers (India): Series C, 2015, 96, 49-56.	1.2	15
42	A grey-fuzzy approach for optimizing machining parameters and the approach angle in turning AISI 1045 steel. Advances in Production Engineering and Management, 2015, 10, 195-208.	1.2	22
43	Optimisation of machining and geometrical parameters in turning process using Taguchi method. Australian Journal of Mechanical Engineering, 2014, 12, 233-246.	2.1	29
44	Application of Response Surface Methodology and Firefly Algorithm for Optimizing Multiple Responses in Turning AISI 1045 Steel. Arabian Journal for Science and Engineering, 2014, 39, 8015-8030.	1.1	42
45	Effect of Tool Geometry in Turning AISI 1045 Steel: Experimental Investigation and FEM Analysis. Arabian Journal for Science and Engineering, 2014, 39, 4963-4975.	1.1	31
46	Experimental investigation and performance analysis of cemented carbide inserts of different geometries using Taguchi based grey relational analysis. Measurement: Journal of the International Measurement Confederation, 2014, 58, 520-536.	5.0	102
47	An ANN approach for predicting the cutting inserts performances of different geometries in hard turning. Advances in Production Engineering and Management, 2013, , 231-241.	1.2	10
48	Optimization of cutting inserts geometry using DEFORM-3D: Numerical simulation and experimental validation. International Journal of Simulation Modelling, 2012, 11, 65-76.	1.3	43
49	Modification and Analysis of Compressor Intercooler Fin in Turbocharger Using FEM. Procedia Engineering, 2012, 38, 379-384.	1.2	10
50	Impact of Interface Temperature over Flank Wear in Hard Turning Using Carbide Inserts. Procedia Engineering, 2012, 38, 613-621.	1.2	17
51	A Finite Element Simulation Study on Effects of Variation in Machining and Geometrical Parameters in Turning. Applied Mechanics and Materials, 0, 592-594, 3-7.	0.2	1
52	Comparative Investigation on Mechanical Properties of Natural Fiber Reinforced Polyester Composites. Applied Mechanics and Materials, 0, 592-594, 92-96.	0.2	8
53	Optimization and Performance Analysis of Uncoated and Coated Carbide Inserts during Hard Turning AISI D2 Steel Using Hybrid GRA-PCA Technique. Applied Mechanics and Materials, 0, 852, 151-159.	0.2	25
54	Parametric Influence of Friction Stir Welding on Cast Al6061/20%SiC/2%MoS₂ MMC Mechanical Properties. Applied Mechanics and Materials, 0, 852, 297-303.	0.2	19

#	Article	IF	Citations
55	Effect of temperature on biogas production from food waste through anaerobic digestion. , 0, 85, 68-72.		7