N Senthilkumar

List of Publications by Year
in descending order

37 papers	983 citations	430874 18 h-index	477307 29 g-index
37 all docs	37 docs citations	37 times ranked	476 citing authors

#	Article	IF	Citations
1	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
2	Taguchi's methodology of optimizing turning parameters over chip thickness ratio in machining P/M AMMC. SN Applied Sciences, 2019, 1, 1.	2.9	58
3	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
4	Evaluation of Mechanical and Tribological Behavior of Al–4%Cu–x%SiC Composites Prepared Through Powder Metallurgy Technique. Transactions of the Indian Institute of Metals, 2017, 70, 1305-1315.	1.5	55
5	Synthesis and Characterization of Silicon Nitride Reinforced Al–Mg–Zn Alloy Composites. Metals and Materials International, 2021, 27, 3058-3069.	3.4	52
6	Biogas from food waste through anaerobic digestion: optimization with response surface methodology. Biomass Conversion and Biorefinery, 2021, 11, 227-239.	4.6	49
7	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
8	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
9	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
10	Implications of SiC/Al2O3 Reinforced Al-Mg-Zn Alloy Hybrid Nano Composites Using Vacuum Sintering Method. Silicon, 2021, 13, 3639-3647.	3.3	37
11	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
12	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
13	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
14	Optimisation of machining and geometrical parameters in turning process using Taguchi method. Australian Journal of Mechanical Engineering, 2014, 12, 233-246.	2.1	29
15	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
16	Machinability evaluation of Al–4%Cu–7.5%SiC metal matrix composite by Taguchi–Grey relational analysis and NSGA-II. Sadhana - Academy Proceedings in Engineering Sciences, 2016, 41, 1219-1234.	1.3	27
17	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
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	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
20	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
21	Parametric Influence of Friction Stir Welding on Cast Al6061/20%SiC/2%MoS<sub>2</sub> MMC Mechanical Properties. Applied Mechanics and Materials, 0, 852, 297-303.	0.2	19
22	Cashew nut shell liquid as alternate fuel for CI engine—optimization approach for performance improvement. Biomass Conversion and Biorefinery, 2022, 12, 1715-1728.	4.6	19
23	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
24	Mode-1 fracture toughness analysis of coffee bean powder reinforced polymer composite. Materials Today: Proceedings, 2020, 21, 537-542.	1.8	16
25	Sintering parameters consequence on microstructure and hardness of copper alloy prepared by powder metallurgy. Materials Today: Proceedings, 2023, 80, 2468-2473.	1.8	14
26	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
27	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
28	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
29	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
30	Plasma Spray Coating of Aluminum–Silicon-MWCNT Blends on Titanium Grade 5 Alloy Substrate for Enhanced Wear and Corrosion Resistance. Silicon, 2022, 14, 8629-8641.	3.3	12
31	Surface modification of AZ61 Magnesium Alloy with Nano TiO2/Al2O3 using Laser Cladding Technique. Materials Today: Proceedings, 2020, 21, 717-721.	1.8	10
32	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
33	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
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	Abrasive wear and corrosion behavior of hybrid AMMCS reinforced with solid lubricant and ceramic particulates. AIP Conference Proceedings, 2022, , .	0.4	5
36	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

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37	A study on effect of primary and secondary reinforcements in hybrid metal matrix composite. AIP Conference Proceedings, 2022, , .	0.4	3