

# N Senthilkumar

## List of Publications by Year in descending order

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37  
papers

983  
citations

430874

18  
h-index

477307

29  
g-index

37  
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37  
docs citations

37  
times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on biodegradable polylactic acid polymer matrix composite material reinforced with synthetic and natural fibers. <i>Materials Today: Proceedings</i> , 2023, 80, 2829-2839.	1.8	32
2	Sintering parameters consequence on microstructure and hardness of copper alloy prepared by powder metallurgy. <i>Materials Today: Proceedings</i> , 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. <i>Environment, Development and Sustainability</i> , 2023, 25, 61-75.	5.0	4
4	Cashew nut shell liquid as alternate fuel for CI engine "optimization approach for performance improvement. <i>Biomass Conversion and Biorefinery</i> , 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. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2022, 46, 329-345.	0.8	8
6	Plasma Spray Coating of Aluminum-Silicon-MWCNT Blends on Titanium Grade 5 Alloy Substrate for Enhanced Wear and Corrosion Resistance. <i>Silicon</i> , 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. <i>Silicon</i> , 2022, 14, 3101-3117.	3.3	13
8	Experimental analysis and optimization on machining of coated carbon fiber and nanoclay reinforced aluminum hybrid composites. <i>Carbon Letters</i> , 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. <i>Materials Research Express</i> , 2022, 9, 026528.	1.6	29
10	A study on effect of primary and secondary reinforcements in hybrid metal matrix composite. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	3
11	Abrasive wear and corrosion behavior of hybrid AMMCS reinforced with solid lubricant and ceramic particulates. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	5
12	Biogas from food waste through anaerobic digestion: optimization with response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 227-239.	4.6	49
13	Synthesis and Characterization of Silicon Nitride Reinforced Al-Mg-Zn Alloy Composites. <i>Metals and Materials International</i> , 2021, 27, 3058-3069.	3.4	52
14	Implications of SiC/Al <sub>2</sub> O <sub>3</sub> Reinforced Al-Mg-Zn Alloy Hybrid Nano Composites Using Vacuum Sintering Method. <i>Silicon</i> , 2021, 13, 3639-3647.	3.3	37
15	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). <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 12045-12063.	3.0	21
16	Experimental investigation of sliding wear behaviour of boron carbide and mica reinforced aluminium alloy hybrid metal matrix composites using Box-Behnken design. <i>Materials Today: Proceedings</i> , 2021, 44, 3803-3810.	1.8	7
17	Surface modification of AZ61 Magnesium Alloy with Nano TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> using Laser Cladding Technique. <i>Materials Today: Proceedings</i> , 2020, 21, 717-721.	1.8	10
18	Mode-1 fracture toughness analysis of coffee bean powder reinforced polymer composite. <i>Materials Today: Proceedings</i> , 2020, 21, 537-542.	1.8	16

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19	Optimising the wear performance of HVOF thermal spray coated Ti-6Al-4V alloy by grey relational approach. <i>International Journal of Rapid Manufacturing</i> , 2020, 9, 25.	0.5	13
20	An investigation on microstructure and mechanical behaviour of copper-nickel coated carbon fibre reinforced aluminium composites. <i>Materials Research Express</i> , 2020, 7, 115701.	1.6	38
21	Vibration and Damping Behavior of Si <sub>3</sub> N <sub>4</sub> Reinforced Magnesium Alloy Composite for Structural Applications. <i>Journal of New Materials for Electrochemical Systems</i> , 2020, 23, 182-189.	0.6	19
22	Taguchi's methodology of optimizing turning parameters over chip thickness ratio in machining P/M AMMC. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	58
23	A study on machinability evaluation of Al-Gr-B&lt;SUB align="right">4C MMC using response surface methodology-based desirability analysis and artificial neural network technique. <i>International Journal of Rapid Manufacturing</i> , 2019, 8, 95.	0.5	20
24	Multi-response optimization of dry sliding wear parameters of AA6026 using hybrid gray relational analysis coupled with response surface method. <i>Measurement and Control</i> , 2019, 52, 540-553.	1.8	56
25	Surface modification of AZ61 magnesium alloy with nano-Al&lt;SUB align="right">2O&lt;SUB align="right">3 using laser cladding technique: optimisation of wear properties through hybrid GRA-PCA. <i>International Journal of Rapid Manufacturing</i> , 2019, 8, 221.	0.5	13
26	A study on machinability evaluation of Al-Gr-B&lt;SUB align="right">4C MMC using response surface methodology-based desirability analysis and artificial neural network technique. <i>International Journal of Rapid Manufacturing</i> , 2019, 8, 95.	0.5	5
27	Evaluation of Mechanical and Tribological Behavior of Al&lt;sup>4</sup>Cu&lt;sup>x</sup>SiC Composites Prepared Through Powder Metallurgy Technique. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 1305-1315.	1.5	55
28	Influence of dimethoxymethane addition on performance, emission and combustion characteristics of the diesel engine. <i>International Journal of Ambient Energy</i> , 2017, 38, 622-626.	2.5	38
29	Optimization and performance analysis of process parameters during anaerobic digestion of food waste using hybrid GRA-PCA technique. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	30
30	Machinability evaluation of Al&lt;sup>4</sup>Cu&lt;sup>7.5</sup>SiC metal matrix composite by Taguchi's Grey relational analysis and NSGA-II. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2016, 41, 1219-1234.	1.3	27
31	Flank wear and surface roughness prediction in hard turning via artificial neural network and multiple regressions. <i>Australian Journal of Mechanical Engineering</i> , 2015, 13, 31-45.	2.1	19
32	Optimisation of machining and geometrical parameters in turning process using Taguchi method. <i>Australian Journal of Mechanical Engineering</i> , 2014, 12, 233-246.	2.1	29
33	Application of Response Surface Methodology and Firefly Algorithm for Optimizing Multiple Responses in Turning AISI 1045 Steel. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 8015-8030.	1.1	42
34	Effect of Tool Geometry in Turning AISI 1045 Steel: Experimental Investigation and FEM Analysis. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 4963-4975.	1.1	31
35	Experimental investigation and performance analysis of cemented carbide inserts of different geometries using Taguchi based grey relational analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 58, 520-536.	5.0	102
36	Optimization and Performance Analysis of Uncoated and Coated Carbide Inserts during Hard Turning AISI D2 Steel Using Hybrid GRA-PCA Technique. <i>Applied Mechanics and Materials</i> , 0, 852, 151-159.	0.2	25

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37	Parametric Influence of Friction Stir Welding on Cast Al6061/20%SiC/2%MoS&lt;sub&gt;2&lt;/sub&gt;/sub&gt; MMC Mechanical Properties. Applied Mechanics and Materials, 0, 852, 297-303.	0.2	19