

R Suresh

List of Publications by Year in descending order

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papers

979
citations

623734

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477307

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55
all docs

55
docs citations

55
times ranked

621
citing authors

#	ARTICLE	IF	CITATIONS
1	Some studies on hard turning of AISI 4340 steel using multilayer coated carbide tool. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1872-1884.	5.0	195
2	Machinability investigations on hardened AISI 4340 steel using coated carbide insert. International Journal of Refractory Metals and Hard Materials, 2012, 33, 75-86.	3.8	176
3	State-of-the-art research in machinability of hardened steels. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 191-209.	2.4	61
4	Some studies on mechanical and machining characteristics of Al2219/n-B 4 C/MoS 2 nano-hybrid metal matrix composites. Measurement: Journal of the International Measurement Confederation, 2017, 107, 1-11.	5.0	54
5	THERMAL ANALYSIS OF NICKEL ALLOY/AL2O3/TIO2 HYBRID METAL MATRIX COMPOSITE IN AUTOMOTIVE ENGINE EXHAUST VALVE USING FEA METHOD. Journal of Thermal Engineering, 2021, 7, 415-428.	1.6	49
6	Effect of Process Parameters on Tool Wear and Surface Roughness during Turning of Hardened Steel with Coated Ceramic Tool. , 2014, 5, 1450-1459.		39
7	High temperature wear behavior of Al2219/n-B4C/MoS2 hybrid metal matrix composites. Composites Communications, 2020, 19, 61-73.	6.3	34
8	A review on vibration energy harvesting technologies: analysis and technologies. European Physical Journal: Special Topics, 2022, 231, 1359-1371.	2.6	25
9	Experimental studies on the performance of multilayer coated carbide tool in hard turning of high strength low alloy steel. Journal of Materials Research, 2015, 30, 3056-3064.	2.6	24
10	Study on Mechanical and Tribological Characterization of Al2O3/SiCp Reinforced Aluminum Metal Matrix Composite. Silicon, 2018, 10, 2535-2545.	3.3	24
11	Aluminium Composites Fabrication Technique and Effect of Improvement in Their Mechanical Properties – A Review. Materials Today: Proceedings, 2018, 5, 23796-23805.	1.8	22
12	Experimental Investigation on Tool Wear in AISI H13 Die Steel Turning Using RSM and ANN Methods. Arabian Journal for Science and Engineering, 2021, 46, 2311-2325.	3.0	21
13	Comparative study on dry sliding wear behavior of mono (Al2219/B₄C) and hybrid (Al2219/B₄C/Gr) metal matrix composites using statistical technique. Journal of the Mechanical Behavior of Materials, 2020, 29, 57-68.	1.8	21
14	Predictive Modeling of Cutting Forces and Tool Wear in Hard Turning using Response Surface Methodology. Procedia Engineering, 2012, 38, 73-81.	1.2	18
15	Analysis of cutting forces and surface roughness in hard turning of AISI 4340 using multilayer coated carbide tool. International Journal of Machining and Machinability of Materials, 2014, 16, 169.	0.1	16
16	Abrasive Jet Machining for Micro-hole Drilling on Glass and GFRP Composites. Materials Today: Proceedings, 2018, 5, 5757-5761.	1.8	14
17	Effect of Heat Treatment on Tensile Strength of Al7075/Al2O3/SiCp Hybrid Composite by Stir Casting Technique. Materials Today: Proceedings, 2018, 5, 22460-22465.	1.8	14
18	Design and Development of Spherical Spy Robot for Surveillance Operation. Procedia Computer Science, 2020, 171, 1212-1220.	2.0	14

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19	Wear Performance Optimization of SiC-Gr Reinforced Al Hybrid Metal Matrix Composites Using Integrated Regression-Antlion Algorithm. Silicon, 2021, 13, 3941-3951.	3.3	13
20	Prediction and comparison of the dilution and heat affected zone in submerged arc welding (SAW) of low carbon alloy steel joints. Measurement: Journal of the International Measurement Confederation, 2020, 150, 107084.	5.0	11
21	Synthesis and mechanical characterization of Si ₃ N ₄ reinforced copper-tin matrix composites. Journal of the Mechanical Behavior of Materials, 2021, 30, 199-206.	1.8	10
22	Investigation on Hardness of Al 7075/Al ₂ O ₃ /SiCp Hybrid Composite Using Taguchi Technique. Materials Today: Proceedings, 2018, 5, 22447-22453.	1.8	9
23	Optimization of Al/B 4 C and Al/B 4 C/Gr MMC Drilling Using Taguchi Approach. Materials Today: Proceedings, 2017, 4, 11181-11187.	1.8	8
24	Optimization of Drilling Parameters of GFRP with Liquid Silicone Rubber and Fine Silica Powder by Taguchi Approach. Silicon, 2020, 12, 1651-1666.	3.3	8
25	Mechanical and Wear Characterization of Al6061 Red Mud Composites. Materials Today: Proceedings, 2018, 5, 22384-22389.	1.8	7
26	Experimental studies of different quenching media on mechanical and wear behavior of Al7075/SiC/Al ₂ O ₃ hybrid composites. Frattura Ed Integrita Strutturale, 2021, 15, 20-31.	0.9	7
27	Effect of Cutting Parameters on Thrust Force and Surface Roughness in Drilling of Al-2219/B ₄ C/Gr Metal Matrix Composites. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012103.	0.6	6
28	Optimization of dry sliding wear behavior of aluminum LM4-Ta/NbC nano composite using Taguchi technique. Materials Today: Proceedings, 2020, 27, 1977-1983.	1.8	6
29	Study on Micro - Nano Sized Al ₂ O ₃ Particles on Mechanical, Wear and Fracture Behavior of Al7075 Metal Matrix Composites. Frattura Ed Integrita Strutturale, 2021, 15, 166-178.	0.9	6
30	Investigations on the change in state of stress with respect to the sliding direction in dry sliding wear of hard elastic material with different geometry and orientation on ductile flat surface. FME Transactions, 2020, 48, 716-723.	1.4	6
31	Corrosion and Wear Studies On LM6 Grade Aluminum - Cenosphere Composite – An Experimental Approach. Materials Today: Proceedings, 2018, 5, 11667-11677.	1.8	5
32	Wear Behavior of Aluminum Alloy Reinforced With Beryl Metal Matrix Composites Using Taguchi Method. Materials Today: Proceedings, 2018, 5, 24497-24504.	1.8	5
33	Effect of Process Parameters on Cutting Forces and Surface Roughness in Machining of DSS 2205 Using Taguchi's Approach. Applied Mechanics and Materials, 0, 895, 26-31.	0.2	5
34	Investigations on tensile fractography and wear characteristics of Al7075-Al ₂ O ₃ -SiC Hybrid Metal Matrix Composites routed through liquid metallurgical techniques. Frattura Ed Integrita Strutturale, 2021, 15, 160-170.	0.9	5
35	Influence of process parameters on tool wear and temperature of coated HSS tools on drilling of hardened EN8 alloy steel. Materials Today: Proceedings, 2022, 50, 1713-1720.	1.8	5
36	Evaluation of Corrosion Properties of Al ₂ O ₃ and SiC Reinforced Aluminium Metal Matrix Composites Using Taguchi's Techniques. Journal of Scientific Research, 2021, 65, 253-259.	0.2	5

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37	Optimization of wear behaviour of Al ₇₀ Ti ₅ SiC/Al ₂ O ₃ MMCs Using statistical method. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 4018-4035.	1.4	5
38	Effect of electrical resistance on ramp rate in cold end portion of SiC heating elements. <i>Materials Today: Proceedings</i> , 2021, 37, 1381-1384.	1.8	3
39	EFFECT OF CRYOGENIC TREATMENT ON TOOL STEELS.. <i>International Journal of Advanced Research</i> , 2017, 5, 1035-1045.	0.0	3
40	Parametric optimization of cutting parameters for micro-machining of titanium Grade-12 alloy using statistical techniques. <i>International Journal of Lightweight Materials and Manufacture</i> , 2022, 5, 74-83.	2.1	3
41	Investigación del comportamiento al desgaste por deslizamiento en seco de materiales compuestos de matriz metálica AA5083/NANO-Al ₂ O ₃ . <i>Revista De Metalurgia</i> , 2022, 58, e213.	0.5	3
42	Advancements in diffusion bonding of aluminium and its alloys: a comprehensive review of similar and dissimilar joints. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 4659-4677.	1.4	3
43	Electrochemical studies of aluminium 7075 reinforced with Al ₂ O ₃ /SiCp hybrid composites in acid chloride medium. , 2018, , .		2
44	The Effect of Holding Time of Deep Cryogenic-Treated AISI D3 Cutting Tool on Machinability of Low Carbon Steels Using Taguchi's Technique. <i>Journal of Advanced Manufacturing Systems</i> , 2020, 19, 215-233.	1.0	2
45	Study on effect of process parameters on MRR and surface roughness in wire electrical discharge machining of titanium grade 7 alloy. <i>Materials Today: Proceedings</i> , 2021, 47, 2481-2485.	1.8	2
46	Investigations on the effect of Machining parameters on Machining force and roughness in Micro-Milling of Titanium Gr5 and Gr12 alloys under dry Machining conditions using carbide tool. <i>Materials Today: Proceedings</i> , 2021, 47, 2598-2602.	1.8	2
47	Dry sliding wear behavior of GFRP with liquid silicon rubber and reinforced with fine silica powder by Taguchi approach. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
48	Effect of process parameters on tool life surface roughness and material removal rate on machining a grey cast iron using multilayer coated carbide tool. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
49	Corrosion behavior of Al6061 hybrid composites reinforced with red mud particles and E-glass fiber. <i>Materials Today: Proceedings</i> , 2021, 46, 6068-6074.	1.8	1
50	Study of Tribological Behavior of Al ₂₂ Ti ₁₉ / B ₄ C/Gr Metal Matrix Composites using Statistical Analysis. <i>Materials Today: Proceedings</i> , 2019, 16, 540-546.	1.8	0
51	Processing of Nickel-Copper Coated Carbon Fibre Rods Reinforced Al ₆₀ Ti ₂ O ₃ /Gr Matrix Composites. <i>Materials Science Forum</i> , 0, 969, 727-731.	0.3	0
52	Synthesis and evaluation of machining characteristics of Cu-Al-Mn ternary shape memory alloys using CNC wire electric discharge machining. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
53	Effect of Nitrogen Dopant on Electrical Resistance of Hot Zone of SiC Heating Elements. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1126, 012075.	0.6	0
54	Investigations on Machinability Characteristics of Hardened AISI H13 Steel With Multilayer Coated Carbide Tool Using Statistical Techniques. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , 2017, , 194-207.	0.4	0

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55	Assessment and Prediction of Heat Transfer Performance of Oscillating Heat Pipe using Acetone. Nigerian Journal of Basic and Medical Science, 2022, 91, 140-154.	0.6	0