T Rajmohan

List of Publications by Year
in descending order

71	1,742	279798	302126
papers	citations	23	39
		h-index	g-index

75	75	75	1299
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of mechanical and wear properties of hybrid aluminium matrix composites. Transactions of Nonferrous Metals Society of China, 2013, 23, 2509-2517.	4.2	209
2	Optimization of machining parameters in turning of Al-SiC-Gr hybrid metal matrix composites using grey-fuzzy algorithm. Transactions of Nonferrous Metals Society of China, 2014, 24, 2805-2814.	4.2	137
3	Application of the central composite design in optimization of machining parameters in drilling hybrid metal matrix composites. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1470-1481.	5.0	125
4	Optimization of machining parameters in drilling hybrid aluminium metal matrix composites. Transactions of Nonferrous Metals Society of China, 2012, 22, 1286-1297.	4.2	96
5	Synthesis and characterization of sintered hybrid aluminium matrix composites reinforced with nanocopper oxide particles and microsilicon carbide particles. Composites Part B: Engineering, 2014, 59, 43-49.	12.0	92
6	Grey-fuzzy algorithm to optimise machining parameters in drilling of hybrid metal matrix composites. Composites Part B: Engineering, 2013, 50, 297-308.	12.0	91
7	Experimental Investigation and Analysis of Thrust Force in Drilling Hybrid Metal Matrix Composites by Coated Carbide Drills. Materials and Manufacturing Processes, 2011, 26, 961-968.	4.7	63
8	Review on effect machining parameters on performance of natural fibre–reinforced composites (NFRCs). Journal of Thermoplastic Composite Materials, 2019, 32, 1282-1302.	4.2	63
9	Analysis of Surface Integrity in Drilling Metal Matrix and Hybrid Metal Matrix Composites. Journal of Materials Science and Technology, 2012, 28, 761-768.	10.7	59
10	Optimization of Machining Parameters for Surface Roughness and Burr Height in Drilling Hybrid Composites. Materials and Manufacturing Processes, 2012, 27, 320-328.	4.7	57
11	Experimental Investigation and Optimization of Process Parameters in Milling of Hybrid Metal Matrix Composites. Materials and Manufacturing Processes, 2012, 27, 1035-1044.	4.7	52
12	Fabrication and Characterization of MWCNT Filled Hybrid Natural Fiber Composites. Journal of Natural Fibers, 2017, 14, 864-874.	3.1	48
13	Machining and its challenges on bio-fibre reinforced plastics: A critical review. Journal of Reinforced Plastics and Composites, 2018, 37, 1037-1050.	3.1	45
14	Optimization of Machining Parameters in Electrical Discharge Machining (EDM) of 304 Stainless Steel. Procedia Engineering, 2012, 38, 1030-1036.	1.2	44
15	Experimental Investigation and Optimization of Machining Parameters in WEDM of Nano-SiC Particles Reinforced Magnesium Matrix Composites. Silicon, 2019, 11, 1701-1716.	3.3	43
16	Modeling and analysis of performances in drilling hybrid metal matrix composites using D-optimal design. International Journal of Advanced Manufacturing Technology, 2013, 64, 1249-1261.	3.0	41
17	The influence of alumina on mechanical and tribological characteristics of graphite particle reinforced hybrid Al-MMC. Journal of Mechanical Science and Technology, 2014, 28, 4737-4744.	1.5	38
18	Optimization of machining parameters for multi-performance characteristics in drilling hybrid metal matrix composites. Journal of Composite Materials, 2012, 46, 869-878.	2.4	32

#	Article	IF	Citations
19	Experimental Evaluation of the Lubrication Performance in MQL Grinding of Nano SiC Reinforced Al Matrix Composites. Silicon, 2019, 11, 2987-2999.	3.3	30
20	Multi-Response Optimization of Epoxidation Process Parameters of Rapeseed Oil Using Response Surface Methodology (RSM)-Based Desirability Analysis. Arabian Journal for Science and Engineering, 2014, 39, 2277-2287.	1.1	27
21	Wear Behavior of PEEK Matrix Composites: A Review. Materials Today: Proceedings, 2018, 5, 14583-14589.	1.8	27
22	Experimental investigation and optimization of machining parameters in drilling of fly ash-filled carbon fiber reinforced composites. Particulate Science and Technology, 2019, 37, 21-30.	2.1	26
23	Synthesis and characterization of dual particle (MWCT+B$_4$C) reinforced sintered hybrid aluminum matrix composites. Particulate Science and Technology, 2016, 34, 255-262.	2.1	24
24	Effects of MWCNT on Mechanical Properties of Glass-Flax Fiber Reinforced Nano Composites. Materials Today: Proceedings, 2018, 5, 11628-11635.	1.8	22
25	Effect of a nanoparticle-filled lubricant in turning of AISI 316L stainless steel (SS). Particulate Science and Technology, 2017, 35, 201-208.	2.1	19
26	Modeling and evolutionary computation on drilling of carbon fiber-reinforced polymer nanocomposite: an integrated approach using RSM based PSO. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	18
27	Multiple Performance Optimization in Wear Characteristics of Mg-SiC Nanocomposites Using Grey-Fuzzy Algorithm. Silicon, 2020, 12, 1177-1186.	3.3	18
28	Modeling and optimization in tribological parameters of polyether ether ketone matrix composites using D-optimal design. Journal of Thermoplastic Composite Materials, 2016, 29, 161-188.	4.2	16
29	Experimental investigation of wear of multiwalled carbon nanotube particles-filled poly-ether-ether-ketone matrix composites under dry sliding. Journal of Thermoplastic Composite Materials, 2019, 32, 521-543.	4.2	16
30	Sustainable drilling performance optimization for Nano SiC reinforced Al matrix composites. Materials and Manufacturing Processes, 2020, 35, 1304-1312.	4.7	15
31	Modeling and Analysis of Cutting Force in Turning of AISI 316L Stainless Steel (SS) under Nano Cutting Environment. Applied Mechanics and Materials, 0, 766-767, 949-955.	0.2	13
32	Sustainable Drilling of Nano SiC Reinforced Al Matrix Composites Using MQL and Cryogenic Cooling for Achieving the Better Surface Integrity. Silicon, 2022, 14, 1787-1805.	3.3	13
33	Synthesis and Characterization of Multi Wall Carbon Nanotube (MWCNT) Filled Hybrid Banana-Glass Fiber Reinforced Composites. Applied Mechanics and Materials, 0, 766-767, 193-198.	0.2	12
34	Synthesis and Characterization of Multi Wall Carbon Nanotubes (MWCNT) Reinforced Sintered Magnesium Matrix Composites. Journal of the Institution of Engineers (India): Series D, 2016, 97, 59-67.	1.0	12
35	Review of WEDM studies on metal matrix composites. IOP Conference Series: Materials Science and Engineering, 0, 390, 012051.	0.6	10
36	Optimization of transesterification process parameters of castor oil ethanolysis using response surface methodology-based genetic algorithm. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 300-308.	2.3	9

#	Article	IF	Citations
37	Evaluation of mechanical properties of nano filled glass fiber reinforced composites. , 2013, , .		8
38	Effect of nano SiC particles on properties and characterization of Magnesium matrix nano composites. Materials Today: Proceedings, 2019, 16, 853-858.	1.8	6
39	Optimizing the Machining Parameters for Minimum Burr Height in Drilling of Hybrid Composites. Procedia Engineering, 2012, 38, 56-65.	1.2	5
40	Grinding of MMC using MQL based vegetable oil - Review. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012033.	0.6	5
41	Analysis of Surface Roughness in Drilling of Fly Ash Filled Carbon Fibre Reinforced Composites. Applied Mechanics and Materials, 2015, 813-814, 505-510.	0.2	4
42	Multi-Response Optimization Of Machining Parameters In CNC Turning Of AISI 316L Stainless Steel Using MQL Nano fluids. IOP Conference Series: Materials Science and Engineering, 0, 390, 012049.	0.6	4
43	Preparation and Analysis of the Thermal properties of Engine oil Reinforced with Multi-walled Carbon Nanotubes. IOP Conference Series: Materials Science and Engineering, 0, 390, 012068.	0.6	4
44	Studies on friction stir processing parameters on microstructure and micro hardness of Silicon carbide (SiC) particulate reinforced Magnesium(Mg) surface composites. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012013.	0.6	4
45	Dynamical analysis of Nano filled - Sisal fiber hybrid reinforced composites. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012059.	0.6	4
46	Eco Friendly Machining Processes for Sustainability - Review. IOP Conference Series: Materials Science and Engineering, 2020, 954, 012044.	0.6	4
47	A mathematical model to predict thrust force in drilling hybrid metal matrix composites. , 2010, , .		3
48	Synthesis and characterization of nano filled carbon fiber reinforced composites. , 2013, , .		3
49	Multiple Performance Optimization in WEDM Parameters Using Desirability Analysis. Applied Mechanics and Materials, 2015, 813-814, 352-356.	0.2	3
50	Effect of MWCNT particles on wear loss in dry sliding wear of PEEK matrix composites. Materials Today: Proceedings, 2019, 16, 800-807.	1.8	3
51	Multi response optimization of sintering parameters of nano copper oxide reinforced Metal Matrix composites. , 2013, , .		2
52	Experimental Investigation and Analysis of Machining Parameters in Drilling of Fly Ash Filled Carbon Fibre Reinforced Composites. Applied Mechanics and Materials, 2015, 813-814, 322-331.	0.2	2
53	Preparation and Characterization of Hybrid Aluminum Matrix Composites Reinforced with MWCNT Using Powder Metallurgy Process. Applied Mechanics and Materials, 2015, 813-814, 620-624.	0.2	2
54	Optimization of Dry Sliding Wear Parameters of MWCNT Reinforced Poly-Ether-Ether-Ketone (PEEK) Composites. Applied Mechanics and Materials, 2015, 813-814, 218-225.	0.2	2

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55	Synthesis and Characterisation of Multi Wall Carbon Nano Tubes (MWCNT) Reinforced Poly-Ether-Ether-Ketone (PEEK) Composites. Applied Mechanics and Materials, 2015, 813-814, 235-239.	0.2	2
56	Experimental Investigation of Machining Parameters during Turning of AISI 316L Stainless Steel Using Nano Cutting Environment. Applied Mechanics and Materials, 0, 787, 361-365.	0.2	2
57	Multi response optimization of drilling performance of MWCNT filled banana-glass fibre reinforced composite. IOP Conference Series: Materials Science and Engineering, 0, 390, 012023.	0.6	2
58	Mechanical behaviour of sisal â€" glass fiber reinforced hybrid Nano composites. IOP Conference Series: Materials Science and Engineering, 2018, 390, 012090.	0.6	2
59	Hybrid WCMFO algorithm for the optimization of AWJ process parameters. IOP Conference Series: Materials Science and Engineering, 2020, 954, 012041.	0.6	1
60	Tribological characteristics of natural fiber composite - Review. IOP Conference Series: Materials Science and Engineering, 2020, 954, 012048.	0.6	1
61	Effect of MWCNT on Mechanical Properties of Glass-Jute Fiber Reinforced Nano Composites. Springer Proceedings in Materials, 2021, , 549-560.	0.3	1
62	Multi-objective Optimization of Engine Parameters While Bio-lubricantâ€"Biofuel Combination of VCR Engine Using Taguchi-Grey Approach. Materials Forming, Machining and Tribology, 2016, , 105-123.	1.1	0
63	Synthesis and characterization of natural fiber reinforced laminated thermoplastic composite. IOP Conference Series: Materials Science and Engineering, 2020, 954, 012015.	0.6	0
64	Study of the G-ratio of aluminium silicon carbide nano particles reinforced metal matrix composites. IOP Conference Series: Materials Science and Engineering, 2020, 954, 012035.	0.6	0
65	Surface Integrity Studies on WEDM of Magnesium Matrix Nano-SiC Reinforced Composites. Springer Proceedings in Materials, 2021, , 229-237.	0.3	0
66	An Experimental Study on Drilling of Titanium Alloy Using Taguchi-Based Fuzzy Logic Approach. Springer Proceedings in Materials, 2021, , 477-487.	0.3	0
67	Optimization of Machining Parameters During Turning of AISI 316L Stainless Steel Under Nanocutting Fluid Environment. Springer Proceedings in Materials, 2021, , 221-227.	0.3	0
68	Application of Water Cycle Algorithm for Optimizing the PAC Process Parameters in Cutting Tiâ€"6Alâ€"4V Alloy. Springer Proceedings in Materials, 2021, , 389-396.	0.3	0
69	Analysis of Thrust Force in Drilling of Titanium Alloy Using Taguchi's Method. Springer Proceedings in Materials, 2021, , 499-507.	0.3	0
70	Effect of Stacking Sequence on Mechanical Properties of MWCNT Filled Natural Fiber Reinforced Composites. Springer Proceedings in Materials, 2021, , 561-569.	0.3	0
71	Analysis of Power Consumption in the drilling of Nano SiC reinforced Aluminium matrix composites. IOP Conference Series: Materials Science and Engineering, 2020, 954, 012038.	0.6	0