Kavimani V

List of Publications by Year
in descending order

42 papers	1,567 citations	218592 26 h-index	315616 38 g-index
42 all docs	42 docs citations	42 times ranked	1021 citing authors

#	Article	IF	Citations
1	Mechanical and wear behaviour of Mgâ€"SiCâ€"Gr hybrid composites. Journal of Magnesium and Alloys, 2016, 4, 197-206.	5.5	111
2	Peanut oil cake-derived cellulose fiber: Extraction, application of mechanical and thermal properties in pineapple/flax natural fiber composites. International Journal of Biological Macromolecules, 2020, 150, 775-785.	3.6	106
3	Multi-objective optimization in WEDM process of graphene â€" SiC-magnesium composite through hybrid techniques. Measurement: Journal of the International Measurement Confederation, 2019, 145, 335-349.	2.5	84
4	Investigations on mechanical and machinability behavior of aluminum/flyash cenosphere/Gr hybrid composites processed through compocasting. Journal of Applied Research and Technology, 2017, 15, 430-441.	0.6	68
5	Tribological behaviour predictions of r-GO reinforced Mg composite using ANN coupled Taguchi approach. Journal of Physics and Chemistry of Solids, 2017, 110, 409-419.	1.9	63
6	Synergistic improvement of epoxy derived polymer composites reinforced with Graphene Oxide (GO) plus Titanium di oxide(TiO2). Composites Part B: Engineering, 2020, 191, 107911.	5.9	62
7	Experimental investigations on wear and friction behaviour of SiC@r-GO reinforced Mg matrix composites produced through solvent-based powder metallurgy. Composites Part B: Engineering, 2019, 162, 508-521.	5.9	61
8	Mechanical, corrosion and wear characteristics of powder metallurgy processed Ti-6Al-4V/B4C metal matrix composites. Ain Shams Engineering Journal, 2018, 9, 1489-1496.	3.5	57
9	Mechanical, water absorption and wear characteristics of novel polymeric composites: Impact of hybrid natural fibers and oil cake filler addition. Journal of Industrial Textiles, 2022, 51, 5910S-5937S.	1.1	56
10	Surface characterization and specific wear rate prediction of r-GO/AZ31 composite under dry sliding wear condition. Surfaces and Interfaces, 2017, 6, 143-153.	1.5	55
11	Investigating the effects of hybrid reinforcement particles on the microstructural, mechanical and tribological properties of friction stir processed copper surface composites. Composites Part B: Engineering, 2019, 174, 107057.	5.9	55
12	Influence of machining parameters on wire electrical discharge machining performance of reduced graphene oxide/magnesium composite and its surface integrity characteristics. Composites Part B: Engineering, 2019, 167, 621-630.	5.9	52
13	Effect of reinforcement, compact pressure and hard ceramic coating on aluminium rock dust composite performance. International Journal of Refractory Metals and Hard Materials, 2016, 54, 223-229.	1.7	50
14	An Investigation into the Mechanical and Wear Characteristics of Hybrid Composites: Influence of Different Types and Content of Biodegradable Reinforcements. Journal of Natural Fibers, 2022, 19, 2823-2835.	1.7	48
15	Electrodeposition of r-GO/SiC nano-composites on Magnesium and its Corrosion Behavior in Aqueous Electrolyte. Applied Surface Science, 2017, 424, 63-71.	3.1	47
16	WEDM Parameter Optimization for Silicon@r-GO/Magneisum Composite Using Taguchi Based GRA Coupled PCA. Silicon, 2020, 12, 1161-1175.	1.8	45
17	Effect of banana, pineapple and coir fly ash filled with hybrid fiber epoxy based composites for mechanical and morphological study. Journal of Material Cycles and Waste Management, 2021, 23, 1277-1288.	1.6	41
18	Effect of TiB2 on the Corrosion Resistance Behavior of In Situ Al Composites. International Journal of Metalcasting, 2020, 14, 84-91.	1.5	39

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19	Investigations on the effect of friction stir processing on Cu-BN surface composites. Materials and Manufacturing Processes, 2018, 33, 299-307.	2.7	37
20	Corrosion protection behaviour of r-GO/TiO2 hybrid composite coating on Magnesium substrate in 3.5â€¯wt.% NaCl. Progress in Organic Coatings, 2018, 125, 358-364.	1.9	36
21	Machinability of hybrid natural fiber reinforced composites with cellulose micro filler incorporation. Journal of Composite Materials, 2020, 54, 3655-3671.	1.2	35
22	Machine Learning and Statistical Approach to Predict and Analyze Wear Rates in Copper Surface Composites. Metals and Materials International, 2021, 27, 220-234.	1.8	35
23	Influence of r-GO addition on enhancement of corrosion and wear behavior of AZ31 MMC. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	31
24	Multi Response Optimization on Machinability of SiC Waste Fillers Reinforced Polymer Matrix Composite Using Taguchiâ€™s Coupled Grey Relational Analysis. Silicon, 2022, 14, 65-73.	1.8	31
25	Investigation of graphene-reinforced magnesium metal matrix composites processed through a solvent-based powder metallurgy route. Bulletin of Materials Science, 2019, 42, 1.	0.8	30
26	Doping Effect of SiC over Graphene on Dry Sliding Wear Behaviour of Mg/SiC@r-GO MMCs and its Surface Characterization. Silicon, 2018, 10, 2829-2843.	1.8	28
27	Exploring the corrosion inhibition of magnesium by coatings. Progress in Organic Coatings, 2019, 129, 32-42.	1.9	28
28	Green high strength concrete containing recycled Cathode Ray Tube Panel Plastics (E-waste) as coarse aggregate in concrete beams for structural applications. Journal of Building Engineering, 2020, 30, 101192.	1.6	27
29	Effect of friction stir processing and hybrid reinforcements on copper. Materials and Manufacturing Processes, 2018, 33, 1681-1692.	2.7	23
30	Tribo-Surface Characteristics and Wear Behaviour of SiC@r-GO/Mg Composite Worn under Varying Control Factor. Silicon, 2020, 12, 29-39.	1.8	23
31	Effect of r-GO/TiO$_2$ hybrid composite as corrosion-protective coating on magnesium in sulphur-based electrolyte. Anti-Corrosion Methods and Materials, 2018, 65, 375-382.	0.6	18
32	Effect of Bio-filler on Hybrid Sisal-Banana-Kenaf-Flax Based Epoxy Composites: A Statistical Correlation on Flexural Strength. Journal of Bionic Engineering, 2020, 17, 1263-1271.	2.7	18
33	Application of r-GO-MMT Hybrid Nanofillers for Improving Strength and Flame Retardancy of Epoxy/Glass Fibre Composites. Advances in Polymer Technology, 2021, 2021, 1-9.	0.8	17
34	Improvement on mechanical and flame retardancy behaviour of bio-exfoliated graphene-filled epoxy/glass fibre composites using compression moulding approach. Polymer Bulletin, 2022, 79, 6289-6307.	1.7	17
35	Measurement and Multi-response Optimization of Spark Erosion Machining Parameters for Titanium Alloy Using Hybrid Taguchiâ€"Grey Relational Analysisâ€"Principal Component Analysis Approach. Journal of Materials Engineering and Performance, 2021, 30, 3129-3143.	1.2	13
36	Effect of Graphene Oxide-Boron Nitride-Based Dual Fillers on Mechanical Behavior of Epoxy/Glass Fiber Composites. Journal of Nanomaterials, 2021, 2021, 1-10.	1.5	6

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37	Influence of Silica Rich CRT and BN on Mechanical, Wear and Corrosion Characteristics of Copper-Surface Composite Processed Through Friction Stir Processing. Silicon, 2021, 13, 3431-3440.	1.8	4
38	Multi-Response Optimization and Surface Integrity Characteristics of Wire Electric Discharge Machining α-Phase Ti-6242 Alloy. Process Integration and Optimization for Sustainability, 2021, 5, 815.	1.4	3
39	Fuzzy-based prediction of compression ignition engine distinctiveness powered by novel graphene oxide nanosheet additive diesel–Aegle marmelos pyrolysis oil ternary opus. International Journal of Energy and Environmental Engineering, 2022, 13, 683-701.	1.3	3
40	Influence of basalt and graphene fillers and their hybridization on surface quality during AWJM process. Materials and Manufacturing Processes, 2021, 36, 1887-1897.	2.7	2
41	Recovery and Recycling Silica Flux in Submerged Arc Welding – Acceptable Properties and Economical Correlation. Silicon, 2021, 13, 2337-2346.	1.8	1
42	Effect of recycled flux over mechanical properties of A36 steel in submerged arc welding. International Journal of Sustainable Engineering, 2021, 14, 1962-1970.	1.9	1