

Sathish Kumar Palaniappan

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

630
citations

687363

13
h-index

642732

23
g-index

47
all docs

47
docs citations

47
times ranked

467
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of nanoclay on mechanical and structural properties of treated <i>Coccinia indica</i> fibre reinforced epoxy composites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 6021-6028.	5.8	65
2	Study on mechanical characteristics of woven cotton/bamboo hybrid reinforced composite laminates. <i>Journal of Materials Research and Technology</i> , 2020, 9, 718-726.	5.8	58
3	Characterization on thermal properties of glass fiber and kevlar fiber with modified epoxy hybrid composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3158-3167.	5.8	50
4	Research updates on graphene oxide based polymeric nanocomposites. <i>Polymer Composites</i> , 2014, 35, 2297-2310.	4.6	47
5	Natural Cellulosic Fiber from <i>Coccinia Indica</i> Stem for Polymer Composites: Extraction and Characterization. <i>Journal of Natural Fibers</i> , 2021, 18, 644-652.	3.1	44
6	Effect of surface treatment on the tribological properties of <i>Coccinia Indica</i> cellulosic fiber reinforced polymer composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 16423-16434.	5.8	43
7	Fabrication and characterisation of nanofibrous polyurethane scaffold incorporated with corn and neem oil using single stage electrospinning technique for bone tissue engineering applications. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	42
8	Impact of alkali treatment and fiber length on mechanical properties of new agro waste <i>Lagenaria Siceraria</i> fiber reinforced epoxy composites. <i>Journal of Natural Fibers</i> , 2022, 19, 6853-6864.	3.1	31
9	Effect of Blend Ratio on the Thermal Comfort Characteristics of Cotton/Bamboo Blended Fabrics. <i>Journal of Natural Fibers</i> , 2022, 19, 105-114.	3.1	25
10	Achieving machining effectiveness for AISI 1015 structural steel through coated inserts and grey-fuzzy coupled Taguchi optimization approach. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1169-1186.	3.5	24
11	Influence of ultrathin gahnite anti-reflection coating on the power conversion efficiency of polycrystalline silicon solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2308-2319.	2.2	20
12	Innovative characterization and mechanical properties of natural cellulosic <i>Coccinia Indica</i> fiber and its composites. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 61-67.	2.2	20
13	Experimental investigation on the effect of ceramic coating on the wear resistance of Al6061 substrate. <i>Journal of Materials Research and Technology</i> , 2019, 8, 6125-6133.	5.8	19
14	Experimental investigation on dynamic mechanical and thermal characteristics of <i>Coccinia Indica</i> fiber reinforced polyester composites. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502090583.	1.0	17
15	Carbon-based Multi-layered Films for Electronic Application: A Review. <i>Journal of Electronic Materials</i> , 2021, 50, 1845-1892.	2.2	14
16	Influence of graphene oxide on the morphological and mechanical behaviour of compatibilized low density polyethylene nanocomposites. <i>Materials Today: Proceedings</i> , 2021, 39, 1487-1493.	1.8	10
17	Influence of individual and combined pre-treatment on the strength properties of granite and sandstone. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	9
18	Effects of high-temperature heating and cryogenic quenching on the physico-mechanical properties of limestone. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	9

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19	Substantial reduction of carbon black and balancing the technical properties of styrene butadiene rubber compounds using nanoclay. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2020, 23, 79-87.	1.1	8
20	Comparison of MA-g-PP effectiveness through mechanical performance of functionalised graphene reinforced polypropylene. <i>Polimeros</i> , 2020, 30, .	0.7	7
21	Performance assessment of hard coating on rock cutting bit and process parameter optimization through multi-response approach using DEAR-Taguchi technique. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	5
22	Tribomechanical behavior of B4Cp reinforced Al 359 composites. <i>Materialpruefung/Materials Testing</i> , 2017, 59, 172-177.	2.2	5
23	Characterization of Fracture Pattern of Indian Coal Measure Rock Under Uniaxial Compression Stress by Statistical Analysis of Fractal Dimension of the Microcrack Orientation. <i>Journal of the Institution of Engineers (India): Series D</i> , 0, , 1.	1.0	5
24	Effect of Cloisite 15A on the mechanical properties of an abaca-based composite. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 125-131.	2.2	5
25	Reduction of harmful nitrogen oxide emission from low heat rejection diesel engine using carbon nanotubes. <i>Thermal Science</i> , 2016, 20, 1181-1187.	1.1	4
26	Development of calcium titanium oxide coated silicon solar cells for enhanced voltage generation capacity. <i>Materials Science-Poland</i> , 2017, 35, 181-187.	1.0	3
27	Experimental investigation on the effect of multilayer TiCN/TiAlN/WC-C coating on the tribological behaviour of tool inserts for machining applications. <i>International Journal of Materials Engineering Innovation</i> , 2019, 10, 186.	0.5	3
28	Suitability of Bottom Ash for Stowing in Underground Coal Mines with and Without Addition of Settling Agent. <i>Journal of the Institution of Engineers (India): Series D</i> , 2021, 102, 505-520.	1.0	3
29	A Study on Rock Cutting Forces and Wear Mechanisms of Coated Picks by Lab-Scale Linear Cutting Machine. <i>Springer Series in Geomechanics and Geoengineering</i> , 2020, , 467-475.	0.1	3
30	Reactive compatibilization effect of graphene oxide reinforced butyl rubber nanocomposites. <i>Polimeros</i> , 2020, 30, .	0.7	3
31	Multi-response Optimization for Evaluating Output Responses in Rock Cutting Through Grey-Fuzzy-Coupled Taguchi Technique. <i>Mining, Metallurgy and Exploration</i> , 2022, 39, 1133-1148.	0.8	3
32	CHAPTER 10. Recycling of Rubber Blends for Durable Construction. <i>RSC Green Chemistry</i> , 2018, , 259-274.	0.1	2
33	CHAPTER 11. Recycling of Rubber Composites and Nanocomposites. <i>RSC Green Chemistry</i> , 2018, , 275-309.	0.1	1
34	Experimental analysis on the technical behavior of carbon black filled rubber blendsâ€™ rollers for rice husk removal application. <i>Polimery</i> , 2019, 64, 50-55.	0.7	1
35	Experimental investigation on the effect of multilayer TiCN/TiAlN/WC-C coating on the tribological behaviour of tool inserts for machining applications. <i>International Journal of Materials Engineering Innovation</i> , 2019, 10, 186.	0.5	1
36	Sonar mapping of abandoned water-logged underground coal mine and backfilling operation using underwater camera. <i>International Journal of Mining and Mineral Engineering</i> , 2021, 12, 181.	0.3	0