Dr J S BINOJ

List of Publications by Year
in descending order

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48 papers	1,274 citations	394421 19 h-index	414414 32 g-index
56 all docs	56 docs citations	56 times ranked	564 citing authors

#	Article	IF	Citations
1	Morphological, physical, mechanical, chemical and thermal characterization of sustainable Indian Areca fruit husk fibers (Areca Catechu L.) as potential alternate for hazardous synthetic fibers. Journal of Bionic Engineering, 2016, 13, 156-165.	5.0	136
2	Comprehensive characterization of natural cellulosic fiber from Coccinia grandis stem. Carbohydrate Polymers, 2019, 207, 675-683.	10.2	95
3	Comprehensive characterization of industrially discarded fruit fiber, Tamarindus indica L. as a potential eco-friendly bio-reinforcement for polymer composite. Journal of Cleaner Production, 2017, 142, 1321-1331.	9.3	70
4	Characterization of industrial discarded fruit wastes (Tamarindus Indica L.) as potential alternate for man-made vitreous fiber in polymer composites. Chemical Engineering Research and Design, 2018, 116, 527-534.	5.6	66
5	Thermo-mechanical and morphological characterization of needle punched non-woven banana fiber reinforced polymer composites. Composites Science and Technology, 2020, 185, 107890.	7.8	57
6	Optimization of short IndianArecafruit husk fiber (Areca catechuL.)â€“reinforced polymer composites for maximizing mechanical properties. International Journal of Polymer Analysis and Characterization, 2016, 21, 112-122.	1.9	56
7	Comprehensive Characterization of Natural Cissus quadrangularis Stem Fiber Composites as an Alternate for Conventional FRP Composites. Journal of Bionic Engineering, 2018, 15, 914-923.	5.0	51
8	Machinability Analysis and ANFIS modelling on Advanced Machining of Hybrid Metal Matrix Composites for Aerospace Applications. Materials and Manufacturing Processes, 2019, 34, 1866-1881.	4.7	50
9	Characterization of Natural Cellulosic Fiber from Cocos nucifera Peduncle for Sustainable Biocomposites. Journal of Natural Fibers, 2022, 19, 9373-9383.	3.1	40
10	Impact of fiber length on mechanical, morphological and thermal analysis of chemical treated jute fiber polymer composites for sustainable applications. Current Research in Green and Sustainable Chemistry, 2022, 5, 100241.	5.6	40
11	Effect of stacking sequence and silicon carbide nanoparticles on properties of carbon/glass/Kevlar fiber reinforced hybrid polymer composites. Polymer Composites, 2022, 43, 6096-6105.	4.6	39
12	Characterization of chemically treated new natural cellulosic fibers from peduncle of <scp>Cocos nucifera</scp> L. Var typica. Polymer Composites, 2021, 42, 6403-6416.	4.6	37
13	Multi objective optimization of wire electrical discharge machining on Inconel 718 using Taguchi grey relational analysis. Materials Today: Proceedings, 2021, 39, 230-235.	1.8	31
14	Characterization of discarded fruit waste as substitute for harmful synthetic fiber-reinforced polymer composites. Journal of Materials Science, 2020, 55, 8513-8525.	3.7	30
15	Characterization of Cocos nucifera L. peduncle fiber reinforced polymer composites for lightweight sustainable applications. Journal of Applied Polymer Science, 2022, 139, .	2.6	29
16	Failure analysis of basalt bidirectional mat reinforced micro/nano Sic particle filled vinyl ester polymer composites. Engineering Failure Analysis, 2022, 136, 106227.	4.0	28
17	Characterization of enzyme treated cellulosic stem fiber from Cissus quadrangularis plant: An exploratory investigation. Current Research in Green and Sustainable Chemistry, 2021, 4, 100162.	5.6	26
18	Sustainable development in utilization of Tamarindus indica L. and its by-products in industries: A review. Current Research in Green and Sustainable Chemistry, 2021, 4, 100207.	5.6	26

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19	Extraction and characterization of natural cellulosic fiber from fragrant screw pine prop roots as potential reinforcement for polymer composites. Polymer Composites, 2022, 43, 320-329.	4.6	26
20	Effect of combined micro and nano silicon carbide particles addition on mechanical, wear and moisture absorption features of basalt bidirectional mat/vinyl ester composites. Polymer Composites, 2022, 43, 2574-2583.	4.6	24
21	Numerical simulation and experimental investigation on laser beam welding of Inconel 625. Materials Today: Proceedings, 2021, 39, 268-273.	1.8	22
22	Failure analysis of discarded Agave tequilana fiber polymer composites. Engineering Failure Analysis, 2019, 95, 379-391.	4.0	21
23	Influence of SiC micro and nano particles on tribological, water absorption and mechanical properties of basalt bidirectional mat/vinyl ester composites. Composites Science and Technology, 2022, 219, 109210.	7.8	21
24	Effect of fiber stacking sequence and orientation on quasi- static indentation properties of sustainable hybrid carbon/ramie fiber epoxy composites. Current Research in Green and Sustainable Chemistry, 2022, 5, 100284.	5.6	21
25	Multi objective optimization of wire-electrical discharge machining of stellite using Taguchi â€“ Grey approach. Materials Today: Proceedings, 2021, 39, 216-222.	1.8	20
26	A Review of Challenges and Opportunities in Additive Manufacturing. Lecture Notes in Mechanical Engineering, 2022, , 23-29.	0.4	19
27	Multi aspects optimization on spark erosion machining of Incoloy 800 by Taguchi Grey approach. Materials Today: Proceedings, 2021, 39, 148-154.	1.8	18
28	Enhancement of corrosion resistance on plasma spray coated mild steel substrate exposed to marine environment. Materials Today: Proceedings, 2019, 15, 84-89.	1.8	17
29	Optimisation of spark erosion machining process parameters using hybrid grey relational analysis and artificial neural network model. International Journal of Machining and Machinability of Materials, 2020, 22, 1.	0.1	16
30	Influence of fiber length on mechanical properties and microstructural analysis of jute fiber reinforced polymer composites. Materials Today: Proceedings, 2021, 39, 398-402.	1.8	14
31	Predictive Models for Wire Spark Erosion Machining of AA 7075 Alloy Using Multiple Regression Analysis. Lecture Notes in Mechanical Engineering, 2021, , 429-438.	0.4	14
32	Application of Taguchi method on Wire Electrical Discharge Machining of Inconel 625. Materials Today: Proceedings, 2021, 39, 121-125.	1.8	13
33	Optimization and performance evaluation of PLA polymer material in situ carbon particles on structural properties. Materials Today: Proceedings, 2021, 39, 223-229.	1.8	11
34	Evaluation of mechanical behavior of multifilament discarded fishnet/glass fiber and polyester composites for marine applications. Marine Structures, 2018, 58, 361-366.	3.8	10
35	Machinability studies on wire electrical discharge machining of Nickel alloys using multiple regression analysis. Materials Today: Proceedings, 2021, 39, 155-159.	1.8	9
36	Parameters optimization and development of multiple regression models for wire electrical discharge machining of aluminium composites. Materials Today: Proceedings, 2021, 39, 263-267.	1.8	9

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37	Mechanical, microstructural, and dynamic mechanical properties of electrospun short nanofiber reinforced epoxy composites. Polymer Composites, 2022, 43, 7028-7043.	4.6	5
38	Statistical optimization of parameters for enhanced properties of diffusion bonded AA6061 and AA 7075 aluminium alloys. Materials Today: Proceedings, 2021, 39, 388-397.	1.8	4
39	Development of Grey-ANFIS Model for Wire Electrical Discharge Machining of Al-GNP Composites. Materials Today: Proceedings, 2021, 39, 301-310.	1.8	4
40	Coccinia grandis stem fiber polymer composite: thermal and mechanical analysis. Iranian Polymer Journal (English Edition), 2021, 30, 369-380.	2.4	4
41	Design of high efficiency energy harvesting circuit using dual switching technique. Materials Today: Proceedings, 2021, 39, 725-730.	1.8	2
42	Prediction of Material Removal Rate in Wire Electrical Discharge Machining of Aluminum Composites for Automotive Components. , 0, , .		2
43	Influence of Tool Rotation Speed on Soundness of Water-Cooled Friction Stir Welded Armour Grade Alâ€“Cu Joint. Lecture Notes in Mechanical Engineering, 2019, , 557-567.	0.4	1
44	Performance comparison of artificial neural network and multiple regression models for wire electrical discharge machining of haste alloy. Materials Today: Proceedings, 2021, 39, 524-532.	1.8	1
45	Effect of interfacial thickness on microstructure, mechanical properties, and modelling of diffusion fused dissimilar Al alloys for process optimization using ANN-GA method. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2022, 5, 105-117.	2.1	1
46	Investigations on Wire Electrical Discharge Machining of Magnesium Alloy AZ31B by Taguchiâ€™s Approach. Lecture Notes in Mechanical Engineering, 2022, , 923-931.	0.4	1
47	Characterization of Areca and Tamarind Fiber Reinforced Hybrid Polymer Composites for Structural Applications. , 0, , .		0
48	Mechanical Property Optimization of Tamarind Fruit Fiber for Lightweight Structural Composites Applications. , 0, , .		0