

# Madhu P

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

3,445  
citations

279487

23  
h-index

288905

40  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and properties of natural fiber polymer composites: A comprehensive review. Journal of Cleaner Production, 2018, 172, 566-581.	4.6	1,080
2	Polymer matrix-natural fiber composites: An overview. Cogent Engineering, 2018, 5, 1446667.	1.1	265
3	A new study on effect of various chemical treatments on Agave Americana fiber for composite reinforcement: Physico-chemical, thermal, mechanical and morphological properties. Polymer Testing, 2020, 85, 106437.	2.3	165
4	A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization. Polymer Composites, 2021, 42, 1588-1630.	2.3	151
5	A review on synthesis and characterization of commercially available natural fibers: Part-I. Journal of Natural Fibers, 2019, 16, 1132-1144.	1.7	145
6	A review on synthesis and characterization of commercially available natural fibers: Part II. Journal of Natural Fibers, 2019, 16, 25-36.	1.7	133
7	Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview. Journal of Natural Fibers, 2022, 19, 4132-4147.	1.7	124
8	A review on extraction, chemical treatment, characterization of natural fibers and its composites for potential applications. Polymer Composites, 2021, 42, 6239-6264.	2.3	112
9	Effect of tungsten carbide on mechanical and tribological properties of jute/sisal/E-glass fabrics reinforced natural rubber/epoxy composites. Journal of Industrial Textiles, 2018, 48, 713-737.	1.1	111
10	Influence of nanofillers on biodegradable composites: A comprehensive review. Polymer Composites, 2021, 42, 5691-5711.	2.3	105
11	A novel approach for development of printed circuit board from biofiber based composites. Polymer Composites, 2020, 41, 4550-4558.	2.3	101
12	Characterization of cellulosic fibre from Phoenix pusilla leaves as potential reinforcement for polymeric composites. Journal of Materials Research and Technology, 2019, 8, 2597-2604.	2.6	84
13	Effect of Various Chemical Treatments of <i>Prosopis juliflora</i> Fibers as Composite Reinforcement: Physicochemical, Thermal, Mechanical, and Morphological Properties. Journal of Natural Fibers, 2020, 17, 833-844.	1.7	78
14	Potential of natural/synthetic hybrid composites for aerospace applications. , 2018, , 315-351.		77
15	A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites. Journal of the Textile Institute, 2022, 113, 1231-1239.	1.0	64
16	A new study on flax/basalt/carbon fiber reinforced epoxy/bioepoxy hybrid composites. Polymer Composites, 2021, 42, 1891-1900.	2.3	59
17	Recent developments and challenges in natural fiber composites: A review. Polymer Composites, 2022, 43, 2545-2561.	2.3	58
18	Alkaline Effect on Characterization of Discarded Waste of Moringa oleifera Fiber as a Potential Eco-friendly Reinforcement for Biocomposites. Journal of Polymers and the Environment, 2020, 28, 2823-2836.	2.4	54

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19	A comprehensive review on polymer composites in railway applications. <i>Polymer Composites</i> , 2022, 43, 1238-1251.	2.3	53
20	<scp><i>Pongamia pinnata</i></scp> shell powder filled sisal/kevlar hybrid composites: <scp>Physicomechanical</scp> and morphological characteristics. <i>Polymer Composites</i> , 2021, 42, 4434-4447.	2.3	43
21	Experimental investigation on the mechanical and morphological behavior of <scp><i>Prosopis juliflora</i></scp> bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. <i>Polymer Composites</i> , 2020, 41, 4983-4993.	2.3	35
22	Review on nitride compounds and its polymer composites: a multifunctional material. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2175-2193.	2.6	34
23	Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/E-glass/carbon fabrics on potential engineering applications: Effect of stacking sequence. <i>Polymer Composites</i> , 2020, 41, 4572-4582.	2.3	28
24	Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties. <i>Polymer Composites</i> , 2022, 43, 160-172.	2.3	28
25	A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 127-169.	1.5	23
26	Structural investigation of Cu doped calcium ferrite ( $\text{Ca}_{1-x}\text{Cu}_x\text{Fe}_2\text{O}_4$ ; $x = 0, 0.2, 0.4, 0.6, 0.8, 1$ ) nanomaterials prepared by co-precipitation method. <i>Journal of Materials Research and Technology</i> , 2022, 18, 705-719.	2.6	21
27	Hybrid Effect of PJFs/E-glass/Carbon Fabric Reinforced Hybrid Epoxy Composites for Structural Applications. <i>Journal of Natural Fibers</i> , 2022, 19, 3742-3752.	1.7	20
28	Mechanical and Chemical Properties Evaluation of Sheep Wool Fiber-Reinforced Vinylester and Polyester Composites. <i>Materials Performance and Characterization</i> , 2021, 10, 20200036.	0.2	20
29	Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies. <i>Polymer Composites</i> , 2022, 43, 3782-3793.	2.3	19
30	Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites. <i>Polymer Composites</i> , 2022, 43, 5649-5662.	2.3	19
31	Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites. <i>Polymer Composites</i> , 2022, 43, 4179-4190.	2.3	17
32	Bacillus-Mediated Silver Nanoparticle Synthesis and Its Antagonistic Activity against Bacterial and Fungal Pathogens. <i>Antibiotics</i> , 2021, 10, 1334.	1.5	15
33	Areca/synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications. <i>Polymer Composites</i> , 2022, 43, 5222-5234.	2.3	15
34	Waste coconut leaf sheath as reinforcement composite material with <scp>phenol-formaldehyde</scp> matrix. <i>Polymer Composites</i> , 2022, 43, 1985-1995.	2.3	13
35	Effect of nano fillers on glass/silk fibers based reinforced polymer composites. <i>Materials Today: Proceedings</i> , 2021, 46, 9032-9035.	0.9	11
36	Effect of Layering Sequence on Impact Properties of Alkali Treated Phoenix Pusilla Fibers-Glass-Carbon Fabrics Reinforced Hybrid Composite Laminates. <i>Journal of Natural Fibers</i> , 0, , 1-11.	1.7	11

#	ARTICLE	IF	CITATIONS
37	Synthesis of Atmospherically Stable Zero-Valent Iron Nanoparticles (nZVI) for the Efficient Catalytic Treatment of High-Strength Domestic Wastewater. <i>Catalysts</i> , 2022, 12, 26.	1.6	10
38	Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 653, 012016.	0.3	8
39	Plastics in Automotive Applications. , 2022, , 103-113.		8
40	Synthesis and Characterization of Microwave-Assisted Copolymer Membranes of Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 T 350.	2.0	8
41	Mechanical, Electrical and Thermal Behaviour of Additively Manufactured Thermoplastic Composites for High Performance Applications. <i>Springer Series in Advanced Manufacturing</i> , 2021, , 167-199.	0.2	5
42	Synthesis, Characterization and Bio-Potential Activities of Co(II) and Ni(II) Complexes with O and N Donor Mixed Ligands. <i>Crystals</i> , 2022, 12, 326.	1.0	5
43	Stress Analysis and Life Estimation of Gas Turbine Blisk for Different Materials of a Jet Engine. <i>International Journal of Science and Research (Raipur, India)</i> , 2016, 5, 1103-1107.	0.1	4
44	Introduction to bio-based fibers and their composites. , 2022, , 1-20.		3
45	Introduction to plant fibers and their composites. , 2022, , 1-24.		0