

# Madhu P

## List of Publications by Year in descending order

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45  
papers

3,445  
citations

279798  
23  
h-index

289244  
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.	9.3	1,080
2	Polymer matrix-natural fiber composites: An overview. Cogent Engineering, 2018, 5, 1446667.	2.2	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.	4.8	165
4	A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization. Polymer Composites, 2021, 42, 1588-1630.	4.6	151
5	A review on synthesis and characterization of commercially available natural fibers: Part-I. Journal of Natural Fibers, 2019, 16, 1132-1144.	3.1	145
6	A review on synthesis and characterization of commercially available natural fibers: Part II. Journal of Natural Fibers, 2019, 16, 25-36.	3.1	133
7	Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview. Journal of Natural Fibers, 2022, 19, 4132-4147.	3.1	124
8	A review on extraction, chemical treatment, characterization of natural fibers and its composites for potential applications. Polymer Composites, 2021, 42, 6239-6264.	4.6	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.	2.4	111
10	Influence of nanofillers on biodegradable composites: A comprehensive review. Polymer Composites, 2021, 42, 5691-5711.	4.6	105
11	A novel approach for development of printed circuit board from biofiber based composites. Polymer Composites, 2020, 41, 4550-4558.	4.6	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.	5.8	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.	3.1	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.	1.9	64
16	A new study on flax/basalt/carbon fiber reinforced epoxy/bioepoxy hybrid composites. Polymer Composites, 2021, 42, 1891-1900.	4.6	59
17	Recent developments and challenges in natural fiber composites: A review. Polymer Composites, 2022, 43, 2545-2561.	4.6	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.	5.0	54

#	ARTICLE	IF	CITATIONS
19	A comprehensive review on polymer composites in railway applications. Polymer Composites, 2022, 43, 1238-1251.	4.6	53
20	<scp><i>Pongamia pinnata</i></scp> shell powder filled sisal/kevlar hybrid composites: <scp>Physicomechanical</scp> and morphological characteristics. Polymer Composites, 2021, 42, 4434-4447.	4.6	43
21	Experimental investigation on the mechanical and morphological behavior of <scp><i>Prosopis juliflora</i></scp> bark fibers/Eâ€glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. Polymer Composites, 2020, 41, 4983-4993.	4.6	35
22	Review on nitride compounds and its polymer composites: a multifunctional material. Journal of Materials Research and Technology, 2022, 18, 2175-2193.	5.8	34
23	Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/ Eâ€glass /carbon fabrics on potential engineering applications: Effect of stacking sequence. Polymer Composites, 2020, 41, 4572-4582.	4.6	28
24	Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties. Polymer Composites, 2022, 43, 160-172.	4.6	28
25	A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications. International Journal of Advanced Manufacturing Technology, 2022, 121, 127-169.	3.0	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. Journal of Materials Research and Technology, 2022, 18, 705-719.	5.8	21
27	Hybrid Effect of PJFs/E-glass/Carbon Fabric Reinforced Hybrid Epoxy Composites for Structural Applications. Journal of Natural Fibers, 2022, 19, 3742-3752.	3.1	20
28	Mechanical and Chemical Properties Evaluation of Sheep Wool Fiberâ€Reinforced Vinylester and Polyester Composites. Materials Performance and Characterization, 2021, 10, 20200036.	0.3	20
29	Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies. Polymer Composites, 2022, 43, 3782-3793.	4.6	19
30	Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites. Polymer Composites, 2022, 43, 5649-5662.	4.6	19
31	Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites. Polymer Composites, 2022, 43, 4179-4190.	4.6	17
32	Bacillus-Mediated Silver Nanoparticle Synthesis and Its Antagonistic Activity against Bacterial and Fungal Pathogens. Antibiotics, 2021, 10, 1334.	3.7	15
33	Areca/synthetic fibers reinforced based epoxy hybrid composites for semiâ€structural applications. Polymer Composites, 2022, 43, 5222-5234.	4.6	15
34	Waste coconut leaf sheath as reinforcement composite material with <scp>phenolâ€formaldehyde</scp> matrix. Polymer Composites, 2022, 43, 1985-1995.	4.6	13
35	Effect of nano fillers on glass/silk fibers based reinforced polymer composites. Materials Today: Proceedings, 2021, 46, 9032-9035.	1.8	11
36	Effect of Layering Sequence on Impact Properties of Alkali Treated Phoenix Pusilla Fibers-Glass-Carbon Fabrics Reinforced Hybrid Composite Laminates. Journal of Natural Fibers, 0, , 1-11.	3.1	11

#	ARTICLE	IF	CITATIONS
37	Synthesis of Atmospherically Stable Zero-Valent Iron Nanoparticles (nZVI) for the Efficient Catalytic Treatment of High-Strength Domestic Wastewater. Catalysts, 2022, 12, 26.	3.5	10
38	Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement. IOP Conference Series: Materials Science and Engineering, 2019, 653, 012016.	0.6	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.	4.5	8
41	Mechanical, Electrical and Thermal Behaviour of Additively Manufactured Thermoplastic Composites for High Performance Applications. Springer Series in Advanced Manufacturing, 2021, , 167-199.	0.5	5
42	Synthesis, Characterization and Bio-Potential Activities of Co(II) and Ni(II) Complexes with O and N Donor Mixed Ligands. Crystals, 2022, 12, 326.	2.2	5
43	Stress Analysis and Life Estimation of Gas Turbine Blisk for Different Materials of a Jet Engine. International Journal of Science and Research (Raipur, India), 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