

Ramesh M

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

4,340
citations

136950

32
h-index

155660

55
g-index

96
all docs

96
docs citations

96
times ranked

2509
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical property evaluation of sisalâ€“juteâ€“glass fiber reinforced polyester composites. Composites Part B: Engineering, 2013, 48, 1-9.	12.0	552
2	Plant fibre based bio-composites: Sustainable and renewable green materials. Renewable and Sustainable Energy Reviews, 2017, 79, 558-584.	16.4	468
3	Kenaf (Hibiscus cannabinus L.) fibre based bio-materials: A review on processing and properties. Progress in Materials Science, 2016, 78-79, 1-92.	32.8	238
4	Comparative Evaluation on Properties of Hybrid Glass Fiber- Sisal/Jute Reinforced Epoxy Composites. Procedia Engineering, 2013, 51, 745-750.	1.2	234
5	Processing and Mechanical Property Evaluation of Banana Fiber Reinforced Polymer Composites. Procedia Engineering, 2014, 97, 563-572.	1.2	197
6	A review of natural polysaccharides for drug delivery applications: Special focus on cellulose, starch and glycogen. Biomedicine and Pharmacotherapy, 2018, 107, 96-108.	5.6	196
7	Flax (Linum usitatissimum L.) fibre reinforced polymer composite materials: A review on preparation, properties and prospects. Progress in Materials Science, 2019, 102, 109-166.	32.8	162
8	Life-cycle and environmental impact assessments on processing of plant fibres and its bio-composites: A critical review. Journal of Industrial Textiles, 2022, 51, 5518S-5542S.	2.4	159
9	Fabrication and Property Evaluation of Banana-Hemp-Glass Fiber Reinforced Composites. Procedia Engineering, 2014, 97, 2032-2041.	1.2	130
10	Experimental Investigation on the Mechanical Properties of Green Hybrid Sisal and Glass Fiber Reinforced Polymer Composites. Journal of Natural Fibers, 2016, 13, 321-331.	3.1	88
11	Mechanical and Water Intake Properties of Banana-Carbon Hybrid Fiber Reinforced Polymer Composites. Materials Research, 2017, 20, 365-376.	1.3	70
12	Influence of fiber surface treatment on the tribological properties of <sc><i>Calotropis gigantea</i></sc> plant fiber reinforced polymer composites. Polymer Composites, 2021, 42, 4308-4317.	4.6	67
13	Carbon substrates: a review on fabrication, properties and applications. Carbon Letters, 2021, 31, 557-580.	5.9	66
14	Evaluation of Mechanical and Interfacial Properties of Sisal/Jute/Glass Hybrid Fiber Reinforced Polymer Composites. Transactions of the Indian Institute of Metals, 2016, 69, 1851-1859.	1.5	64
15	Influence of fiber orientation and fiber content on properties of sisalâ€“juteâ€“glass fiberâ€“reinforced polyester composites. Journal of Applied Polymer Science, 2016, 133, .	2.6	62
16	Influence of Process Parameters on the Properties of Additively Manufactured Fiber-Reinforced Polymer Composite Materials: A Review. Journal of Materials Engineering and Performance, 2021, 30, 4792-4807.	2.5	62
17	Mechanical property analysis of kenafâ€“glass fibre reinforced polymer composites using finite element analysis. Bulletin of Materials Science, 2016, 39, 147-157.	1.7	60
18	Characteristic of composite bioplastics from tapioca starch and sugarcane bagasse fiber: Effect of time duration of ultrasonication (Bath-Type). Materials Today: Proceedings, 2021, 46, 1626-1630.	1.8	56

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19	Experimental Investigation of Mechanical and Morphological Properties of Flax-Glass Fiber Reinforced Hybrid Composite using Finite Element Analysis. Silicon, 2018, 10, 747-757.	3.3	53
20	Preparation, synthesis, properties and characterization of graphene-based 2D nano-materials for biosensors and bioelectronics. Journal of Materials Research and Technology, 2022, 19, 2657-2694.	5.8	53
21	Impact of Silane Treatment on Characterization of <i>Ipomoea Staphylina</i> Plant Fiber Reinforced Epoxy Composites. Journal of Natural Fibers, 2022, 19, 5888-5899.	3.1	52
22	A Critical Review on Wood-Based Polymer Composites: Processing, Properties, and Prospects. Polymers, 2022, 14, 589.	4.5	52
23	Influence of Eggshell Nanoparticles and Effect of Alkalization on Characterization of Industrial Hemp Fibre Reinforced Epoxy Composites. Journal of Polymers and the Environment, 2020, 28, 2178-2190.	5.0	50
24	Effect of Alkalization on Mechanical and Moisture Absorption Properties of <i>Azadirachta indica</i> (Neem) Tj ETQq0 0 0 rgBT /Overlock 10 T 187-199.	1.5	48
25	Effect of hybridization on properties of tamarind (<i>Tamarindus indica</i>) seed nano-powder incorporated jute-hemp fibers reinforced epoxy composites. Polymer Composites, 2021, 42, 6611-6620.	4.6	48
26	Mechanical and water absorption properties of <i>Calotropis gigantea</i> plant fibers reinforced polymer composites. Materials Today: Proceedings, 2021, 46, 3367-3372.	1.8	46
27	Experimental investigation on mechanical properties of banana/snake grass fiber reinforced hybrid composites. Materials Today: Proceedings, 2021, 42, 350-355.	1.8	45
28	Effect of hybridization on properties of natural and synthetic fiber-reinforced polymer composites (2001-2020): A review. Polymer Composites, 2021, 42, 4981-5010.	4.6	44
29	Influence of Haritaki (<i>Terminalia chebula</i>) nano-powder on thermo-mechanical, water absorption and morphological properties of <i>Tindora</i> (<i>Coccinia grandis</i>) tendrils fiber reinforced epoxy composites. Journal of Natural Fibers, 2022, 19, 6452-6468.	3.1	42
30	Influence of Tool Materials on Thrust Force and Delamination in Drilling Sisal-glass Fiber Reinforced Polymer (S-GFRP) Composites. , 2014, 5, 1915-1921.		41
31	Experimental Investigation on Mechanical Properties of Hemp-Banana-Glass Fiber Reinforced Composites. Applied Mechanics and Materials, 0, 766-767, 167-172.	0.2	40
32	Impact of Alkali Treatment on Characterization of Tapsi (<i>Sterculia Urens</i>) Natural Bark Fiber Reinforced Polymer Composites. Journal of Natural Fibers, 2021, 18, 378-389.	3.1	40
33	Hemp, jute, banana, kenaf, ramie, sisal fibers. , 2018, , 301-325.		39
34	Mechanical, Chemical and Acoustical Behavior of Sisal Tea Waste Glass Fiber Reinforced Epoxy Based Hybrid Polymer Composites. Materials Today: Proceedings, 2019, 16, 653-660.	1.8	37
35	Deep learning for material synthesis and manufacturing systems: A review. Materials Today: Proceedings, 2021, 46, 3263-3269.	1.8	37
36	Effect of hybridization on properties of hemp-carbon fibre-reinforced hybrid polymer composites using experimental and finite element analysis. World Journal of Engineering, 2019, 16, 248-259.	1.6	36

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37	Self-healing polymer composites and its chemistry. , 2020, , 415-427.		36
38	Leaf fibres as reinforcements in green composites: a review on processing, properties and applications. Emergent Materials, 2022, 5, 833-857.	5.7	32
39	Effect of Alkalization on Characterization of Ripe Bulrush (<i>Typha Domingensis</i>) Grass Fiber Reinforced Epoxy Composites. Journal of Natural Fibers, 2022, 19, 931-942.	3.1	31
40	Experimental investigation on physical, mechanical, and thermal properties of jute and hemp fibers reinforced hybrid polylactic acid composites. Polymer Composites, 2022, 43, 2854-2863.	4.6	28
41	Comparisional Study of Succinylation and Phthalicylation of Jute Fibres: Study of Mechanical Properties of Modified Fibre Reinforced Epoxy Composites. Materials Today: Proceedings, 2015, 2, 2918-2927.	1.8	26
42	Measurement and analysis of thrust force in drilling sisal-glass fiber reinforced polymer composites. IOP Conference Series: Materials Science and Engineering, 2017, 197, 012056.	0.6	25
43	Tribological Behaviour of MoS ₂ and Graphite Reinforced Aluminium Matrix Composites. IOP Conference Series: Materials Science and Engineering, 2021, 1059, 012021.	0.6	24
44	Green Composite Using Agricultural Waste Reinforcement. Materials Horizons, 2021, , 21-34.	0.6	23
45	Physical Properties of Glass-Hemp-Banana Hybrid Fiber Reinforced Polymer Composites. Indian Journal of Science and Technology, 2017, 10, 1-7.	0.7	21
46	Experimental investigation on morphological, physical and shear properties of hybrid composite laminates reinforced with flax and carbon fibers. Journal of the Chinese Advanced Materials Society, 2018, 6, 640-654.	0.7	19
47	Bamboo Fiber Reinforced Composites. , 2021, , 1-13.		19
48	Impact Behaviour Analysis of Sisal/Jute and Glass Fiber Reinforced Hybrid Composites. Advanced Materials Research, 0, 984-985, 266-272.	0.3	17
49	Tribological Behavior of Glass/Sisal Fiber Reinforced Polyester Composites. Composites Science and Technology, 2021, , 445-459.	0.6	15
50	Processing and Mechanical Property Evaluation of Flax-Glass Fiber Reinforced Polymer Composites. Applied Mechanics and Materials, 0, 766-767, 144-149.	0.2	14
51	Case-Studies on Green Corrosion Inhibitors. Materials Research Foundations, 2021, , 204-221.	0.3	13
52	Effect of fiber orientation on tribological behaviour of Typha angustifolia natural fiber reinforced composites. Materials Today: Proceedings, 2022, 62, 1958-1964.	1.8	12
53	Studies on mechanical strengths of hemp-glass fibre reinforced epoxy composites. IOP Conference Series: Materials Science and Engineering, 0, 402, 012083.	0.6	10
54	Processing of Green Composites. Textile Science and Clothing Technology, 2019, , 47-72.	0.5	10

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55	Study of Mechanical Properties of Jute-Banana-Glass Fiber Reinforced Epoxy Composites under Various Post Curing Temperature. Applied Mechanics and Materials, 0, 766-767, 211-215.	0.2	9
56	Bamboo Fiber Reinforced Concrete Composites. , 2021, , 127-145.		9
57	Processing and Mechanical Property Evaluation of Kenaf-Glass Fiber Reinforced Polymer Composites. Applied Mechanics and Materials, 0, 766-767, 187-192.	0.2	8
58	Mechanical Propertiesâ€™ Evaluation of Hemp Fibre-Reinforced Polymer Composites. Lecture Notes in Mechanical Engineering, 2019, , 343-351.	0.4	7
59	Friction and wear properties of carbon nanotube-reinforced polymer composites. , 2021, , 223-240.		7
60	PLA based Bio Composite reinforced with natural fibers â€™ Review. IOP Conference Series: Materials Science and Engineering, 2021, 1145, 012069.	0.6	7
61	Influence of Moisture Absorption on Mechanical properties of Biocomposites reinforced Surface Modified Natural Fibers. Composites Science and Technology, 2022, , 17-34.	0.6	7
62	Machining Characteristics of Fiber Reinforced Polymer Composites: A Review. Indian Journal of Science and Technology, 2016, 9, .	0.7	6
63	Enzyme-modified electrodes for biofuel cells: A comprehensive review. Materials Today: Proceedings, 2021, 46, 3495-3501.	1.8	5
64	Keratin-based biofibers and their composites. , 2022, , 315-334.		5
65	Significance of biosurfactants in oil recovery and bioremediation of crude oil. , 2021, , 211-226.		4
66	Manufacturing methods of elastomer blends and composites. , 2022, , 11-32.		4
67	Influence of eggshell particles on mechanical and water absorption properties of hemp-glass fibres reinforced hybrid composites. IOP Conference Series: Materials Science and Engineering, 2020, 923, 012042.	0.6	3
68	Recent advances in tribology of hybrid polymer composites. , 2021, , 7-30.		3
69	Hygrothermal Aging, Kinetics of Moisture Absorption, Degradation Mechanism and Their Influence on Performance of the Natural Fibre Reinforced Composites. Composites Science and Technology, 2022, , 257-277.	0.6	3
70	Hemp fibers, their composites and applications. , 2022, , 233-252.		3
71	Electrically conductive self-healing materials: preparation, properties, and applications. , 2020, , 1-13.		2
72	Biocomposites for prosthesis. , 2021, , 339-351.		2

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73	Mechanical properties of natural and synthetic fiber reinforced hybrid composites. , 2021, , 309-325.		2
74	Properties of Cellulose Based Bio-fibres Reinforced Polymer Composites. , 2020, , 71-89.		2
75	Banana fibers, their composites and applications. , 2022, , 161-180.		2
76	Metal-organic frameworks and their composites. , 2021, , 1-18.		1
77	Biocomposites for biomedical devices. , 2021, , 287-300.		1
78	Metal-organic framework for batteries and supercapacitors. , 2021, , 19-35.		1
79	Optimization of drilling output responses of eggshell fillers reinforced hemp/glass fibres hybrid composites. Materials Today: Proceedings, 2021, 46, 3245-3250.	1.8	1
80	Carbon Nanotube-Based Metal-Organic Framework Nanocomposites. , 2020, , 237-260.		1
81	Introduction to biodegradable polymers. , 2022, , 1-18.		1
82	Effect of Process Parameters on Fused Filament Fabrication Printed Composite Materials. Composites Science and Technology, 2022, , 155-178.	0.6	1
83	Applications of green composites for sustainable development. , 2022, , 43-53.		1
84	Metal-organic frameworks and permeable natural polymers for reasonable carbon dioxide fixation. , 2021, , 417-440.		0