Mavinkere Rangappa Sanjay

List of Publications by Year
in descending order

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255 papers	14,927 citations	20817 60 h-index	27406 106 g-index
281 all docs	281 docs citations	281 times ranked	4743 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	A comprehensive review of techniques for natural fibers as reinforcement in composites: Preparation, processing and characterization. Carbohydrate Polymers, 2019, 207, 108-121.	10.2	584
3	Renewable and sustainable biobased materials: An assessment on biofibers, biofilms, biopolymers and biocomposites. Journal of Cleaner Production, 2020, 258, 120978.	9.3	482
4	Natural Fibers as Sustainable and Renewable Resource for Development of Eco-Friendly Composites: A Comprehensive Review. Frontiers in Materials, 2019, 6, .	2.4	475
5	Study on characterization of Furcraea foetida new natural fiber as composite reinforcement for lightweight applications. Carbohydrate Polymers, 2018, 181, 650-658.	10.2	323
6	Characterization of raw and alkali treated new natural cellulosic fibers from Tridax procumbens. International Journal of Biological Macromolecules, 2019, 125, 99-108.	7.5	299
7	A comprehensive review on chemical properties and applications of biopolymers and their composites. International Journal of Biological Macromolecules, 2020, 154, 329-338.	7.5	297
8	Study on Mechanical Properties of Natural - Glass Fibre Reinforced Polymer Hybrid Composites: A Review. Materials Today: Proceedings, 2015, 2, 2959-2967.	1.8	296
9	Polymer matrix-natural fiber composites: An overview. Cogent Engineering, 2018, 5, 1446667.	2.2	265
10	Environment friendly, renewable and sustainable poly lactic acid (PLA) based natural fiber reinforced composites â€“ A comprehensive review. Journal of Cleaner Production, 2021, 310, 127483.	9.3	251
11	Applications of Natural Fibers and Its Composites: An Overview. Natural Resources, 2016, 07, 108-114.	0.4	251
12	Lignocellulosic fiber reinforced composites: Progress, performance, properties, applications, and future perspectives. Polymer Composites, 2022, 43, 645-691.	4.6	182
13	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. Polymer Composites, 2020, 41, 3940-3965.	4.6	179
14	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
15	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
16	Mechanical, microstructural, and thermal characterization insights of pyrolyzed carbon black from waste tires reinforced epoxy nanocomposites for coating application. Polymer Composites, 2020, 41, 338-349.	4.6	156
17	A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization. Polymer Composites, 2021, 42, 1588-1630.	4.6	151
18	Accelerated weathering studies of kenaf/sisal fiber fabric reinforced fully biobased hybrid bioepoxy composites for semi-structural applications: Morphology, thermo-mechanical, water absorption behavior and surface hydrophobicity. Construction and Building Materials, 2020, 235, 117464.	7.2	149

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19	A review on synthesis and characterization of commercially available natural fibers: Part-I. Journal of Natural Fibers, 2019, 16, 1132-1144.	3.1	145
20	Studies on hybridization effect of jute/kenaf/E-glass woven fabric epoxy composites for potential applications: Effect of laminate stacking sequences. Journal of Industrial Textiles, 2018, 47, 1830-1848.	2.4	144
21	Influence of wood dust fillers on the mechanical, thermal, water absorption and biodegradation characteristics of jute fiber epoxy composites. Journal of Polymer Research, 2020, 27, 1.	2.4	141
22	Hybridization Effect of Sisal/Glass/Epoxy/Filler Based Woven Fabric Reinforced Composites. Experimental Techniques, 2017, 41, 577-584.	1.5	140
23	Investigation on the mechanical behavior of areca sheath fibers/jute fibers/glass fabrics reinforced hybrid composite for light weight applications. Journal of Industrial Textiles, 2020, 49, 1036-1060.	2.4	136
24	Characterization of a novel natural cellulosic fiber from Calotropis gigantea fruit bunch for ecofriendly polymer composites. International Journal of Biological Macromolecules, 2020, 150, 793-801.	7.5	135
25	A review on synthesis and characterization of commercially available natural fibers: Part II. Journal of Natural Fibers, 2019, 16, 25-36.	3.1	133
26	Investigation on thermo-mechanical characteristics of treated/untreated Portunus sanguinolentus shell powder-based jute fabrics reinforced epoxy composites. Journal of Industrial Textiles, 2020, 50, 427-459.	2.4	132
27	Characterization of New Natural Cellulosic Fiber from Heteropogon Contortus Plant. Journal of Natural Fibers, 2018, 15, 146-153.	3.1	124
28	Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview. Journal of Natural Fibers, 2022, 19, 4132-4147.	3.1	124
29	Studies on Natural/Glass Fiber Reinforced Polymer Hybrid Composites: An Evolution. Materials Today: Proceedings, 2017, 4, 2739-2747.	1.8	121
30	The Hybrid Effect of Jute/Kenaf/E-Glass Woven Fabric Epoxy Composites for Medium Load Applications: Impact, Inter-Laminar Strength, and Failure Surface Characterization. Journal of Natural Fibers, 2019, 16, 600-612.	3.1	117
31	A novel palm sheath and sugarcane bagasse fiber based hybrid composites for automotive applications: An experimental approach. Polymer Composites, 2021, 42, 512-521.	4.6	117
32	Physicochemical Properties of New Cellulosic Fibers from Azadirachta indica Plant. Journal of Natural Fibers, 2018, 15, 29-38.	3.1	114
33	Characterization of natural fiber obtained from different parts of date palm tree (Phoenix dactylifera) Tj ETQq1 1 0.784314 rgBT /Ove	7.5	114
34	Characterization of new cellulosic fiber: Dracaena reflexa as a reinforcement for polymer composite structures. Journal of Materials Research and Technology, 2019, 8, 1952-1963.	5.8	113
35	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
36	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

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37	Corrosion protective self-healing epoxy resin coatings based on inhibitor and polymeric healing agents encapsulated in organic and inorganic micro and nanocontainers. Nano Structures Nano Objects, 2018, 16, 381-395.	3.5	109
38	Processing and characterization analysis of pyrolyzed oil rubber (from waste tires)â€epoxy polymer blend composite for lightweight structures and coatings applications. Polymer Engineering and Science, 2019, 59, 2041-2051.	3.1	108
39	Influence of nanofillers on biodegradable composites: A comprehensive review. Polymer Composites, 2021, 42, 5691-5711.	4.6	105
40	A novel approach for development of printed circuit board from biofiber based composites. Polymer Composites, 2020, 41, 4550-4558.	4.6	101
41	Novel Muntingia Calabura bark fiber reinforced green-epoxy composite: A sustainable and green material for cleaner production. Journal of Cleaner Production, 2021, 294, 126337.	9.3	99
42	Sustainable milling of Tiâ€“6Alâ€“4V: A trade-off between energy efficiency, carbon emissions and machining characteristics under MQL and cryogenic environment. Journal of Cleaner Production, 2021, 281, 125374.	9.3	95
43	Mechanical property analysis of nanocarbon particles/glass fiber reinforced hybrid epoxy composites using RSM. Composites Communications, 2022, 32, 101147.	6.3	93
44	A comprehensive review on natural fiber/<scp>nanoâ€clay</scp> reinforced hybrid polymeric composites: Materials and technologies. Polymer Composites, 2021, 42, 3687-3701.	4.6	91
45	A new assessment on mechanical properties of jute fiber mat with egg shell powder/nanoclay-reinforced polyester matrix composites. Journal of Natural Fibers, 2020, 17, 482-490.	3.1	85
46	Physicochemical and Thermal Properties of Ceiba pentandra Bark Fiber. Journal of Natural Fibers, 2018, 15, 822-829.	3.1	84
47	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
48	Characterization of Alkali-Treated and Untreated Natural Fibers from the Stem of Parthenium Hysterophorus. Journal of Natural Fibers, 2021, 18, 80-90.	3.1	84
49	Effect of stacking sequence on properties of coconut leaf sheath/jute/E-glass reinforced phenol formaldehyde hybrid composites. Journal of Industrial Textiles, 2019, 49, 3-32.	2.4	83
50	Green-composites: Ecofriendly and Sustainability. Applied Science and Engineering Progress, 2020, 13, .	0.8	82
51	Physico-chemical and thermal properties of untreated and treated Acacia planifrons bark fibers for composite reinforcement. Materials Letters, 2019, 240, 221-224.	2.6	79
52	Characterization of natural cellulosic fiber from bark of Albizia amara. Journal of Natural Fibers, 2019, 16, 1124-1131.	3.1	79
53	Synthesis and characterization of cellulose nanofibers (CNF) ramie reinforced cassava starch hybrid composites. International Journal of Biological Macromolecules, 2018, 120, 578-586.	7.5	78
54	Synthesis and characterization of cellulosic fiber from red banana peduncle as reinforcement for potential applications. Journal of Natural Fibers, 2019, 16, 768-780.	3.1	78

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55	Effect of Various Chemical Treatments of Prosopis juliflora Fibers as Composite Reinforcement: Physicochemical, Thermal, Mechanical, and Morphological Properties. Journal of Natural Fibers, 2020, 17, 833-844.	3.1	78
56	Effect of <scp>Al₂O₃</scp> nanofillers in basalt/epoxy composites: Mechanical and tribological properties. Polymer Composites, 2021, 42, 1727-1740.	4.6	78
57	Characterization of natural cellulosic fiber from Epipremnum aureum stem. Journal of Natural Fibers, 2018, 15, 789-798.	3.1	75
58	Characterization of untreated and alkali treated natural fibers extracted from the stem of Catharanthus roseus. Materials Research Express, 2019, 6, 085406.	1.6	73
59	Alkali treated coir/pineapple leaf fibres reinforced PLA hybrid composites: Evaluation of mechanical, morphological, thermal and physical properties. EXPRESS Polymer Letters, 2020, 14, 717-730.	2.1	73
60	Influence of Sodium Hydroxide (NaOH) Treatment on Mechanical Properties and Morphological Behaviour of Phoenix sp.ÂFiber/Epoxy Composites. Journal of Polymers and the Environment, 2021, 29, 765-774.	5.0	73
61	Recycling of sisal fiber reinforced polypropylene and polylactic acid composites: Thermo-mechanical properties, morphology, and water absorption behavior. Waste Management, 2019, 97, 71-81.	7.4	72
62	Impact of alkali treatment on physico-chemical, thermal, structural and tensile properties of Carica papaya bark fibers. International Journal of Polymer Analysis and Characterization, 2018, 23, 529-536.	1.9	68
63	Extraction and characterization of natural fiber from Eleusine indica grass as reinforcement of sustainable fiber reinforced polymer composites. Journal of Natural Fibers, 2021, 18, 1742-1750.	3.1	67
64	Characterization of Alkaline and Silane Treated Fibers of â€˜Water Hyacinth Plantsâ€™ and Reinforcement of â€˜Water Hyacinth Fibersâ€™ with Bioepoxy to Develop Fully Biobased Sustainable Ecofriendly Composites. Journal of Polymers and the Environment, 2020, 28, 2749-2760.	5.0	67
65	Extraction and Characterization of Natural Fiber from Stem of Cardiospermum Halicababum. Journal of Natural Fibers, 2021, 18, 898-908.	3.1	67
66	Effect of coir fiber and TiC nanoparticles on basalt fiber reinforced epoxy hybrid composites: physicoâ€“mechanical characteristics. Cellulose, 2021, 28, 3451-3471.	4.9	67
67	Development of new hybridPhoenix pusilla/carbon/fish bone filler reinforced polymer composites. Journal of the Chinese Advanced Materials Society, 2018, 6, 553-560.	0.7	65
68	Study on characterization and physicochemical properties of new natural fiber from Phaseolus vulgaris. Journal of Natural Fibers, 2019, 16, 1035-1042.	3.1	64
69	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
70	Studies on Mechanical Properties of Jute/E-Glass Fiber Reinforced Epoxy Hybrid Composites. Journal of Minerals and Materials Characterization and Engineering, 2016, 04, 15-25.	0.4	63
71	A new study on <scp>flaxâ€basaltâ€carbon</scp> fiber reinforced epoxy/<scp>bioepoxy</scp> hybrid composites. Polymer Composites, 2021, 42, 1891-1900.	4.6	59
72	Characterization of Natural Fibers from Cortaderia Selloana Grass (Pampas) as Reinforcement Material for the Production of the Composites. Journal of Natural Fibers, 2021, 18, 1893-1901.	3.1	58

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73	Effect of Graphene Powder on Banyan Aerial Root Fibers Reinforced Epoxy Composites. Journal of Natural Fibers, 2021, 18, 1029-1036.	3.1	58
74	Characterization of novel natural cellulosic fibers from purple bauhinia for potential reinforcement in polymer composites. Cellulose, 2021, 28, 5373.	4.9	58
75	Recent developments and challenges in natural fiber composites: A review. Polymer Composites, 2022, 43, 2545-2561.	4.6	58
76	Novel biodegradable polymer films based on poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and Ceiba pentandra natural fibers for packaging applications. Food Packaging and Shelf Life, 2020, 25, 100538.	7.5	57
77	A review on the extraction of pineapple, sisal and abaca fibers and their use as reinforcement in polymer matrix. EXPRESS Polymer Letters, 2020, 14, 309-335.	2.1	57
78	A New Study on Characterization and Properties of Natural Fibers Obtained from Olive Tree (Olea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.0	56
79	Extraction and characterization of vetiver grass (Chrysopogon zizanioides) and kenaf fiber (Hibiscus) Tj ETQq1 1 0.784314 rgBT /Ove Research and Technology, 2020, 9, 773-778.	5.8	56
80	Fully bio-based agro-waste soy stem fiber reinforced bio-epoxy composites for lightweight structural applications: Influence of surface modification techniques. Construction and Building Materials, 2021, 303, 124509.	7.2	56
81	Tribo-Mechanical characterization of carbonized coconut shell micro particle reinforced with Cissus quadrangularis stem fiber/epoxy novel composite for structural application. Journal of Natural Fibers, 2022, 19, 2963-2979.	3.1	55
82	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
83	A new study on characterization of Pithecellobium dulce fiber as composite reinforcement for light-weight applications. Journal of Natural Fibers, 2020, 17, 359-370.	3.1	53
84	New Lignocellulosic Aristida adscensionis Fibers as Novel Reinforcement for Composite Materials: Extraction, Characterization and Weibull Distribution Analysis. Journal of Polymers and the Environment, 2020, 28, 803-811.	5.0	53
85	A comprehensive review on polymer composites in railway applications. Polymer Composites, 2022, 43, 1238-1251.	4.6	53
86	Characterization of Areva javanica fiber â€“ A possible replacement for synthetic acrylic fiber in the disc brake pad. Journal of Industrial Textiles, 2019, 49, 294-317.	2.4	52
87	Mechanical and Acoustic Properties of Alkali-Treated Sansevieria ehrenbergii/Camellia sinensis Fiberâ€“Reinforced Hybrid Epoxy Composites: Incorporation of Glass Fiber Hybridization. Applied Composite Materials, 2020, 27, 915-933.	2.5	51
88	Mechanical, chemical and sound absorption properties of glass/kenaf/waste tea leaf fiber-reinforced hybrid epoxy composites. Journal of Industrial Textiles, 2022, 51, 1674-1700.	2.4	51
89	Cellulose fiber from date palm petioles as potential reinforcement for polymer composites: Physicochemical and structural properties. Polymer Composites, 2021, 42, 3943-3953.	4.6	51
90	Extraction and Characterization of Natural Fibers from Citrullus lanatus Climber. Journal of Natural Fibers, 2022, 19, 621-629.	3.1	49

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91	Performance of Sisal/Hemp Bio-based Epoxy Composites Under Accelerated Weathering. Journal of Polymers and the Environment, 2021, 29, 624-636.	5.0	48
92	Structural and Thermal Properties of Chemically Modified Luffa Cylindrica Fibers. Journal of Natural Fibers, 2021, 18, 1037-1043.	3.1	47
93	Review on extraction, characterization, surface treatment and thermal degradation analysis of new cellulosic fibers as sustainable reinforcement in polymer composites. Current Research in Green and Sustainable Chemistry, 2022, 5, 100271.	5.6	45
94	Characterization of chemical treated and untreated natural fibers from Pennisetum orientale grass- A potential reinforcement for lightweight polymeric applications. International Journal of Lightweight Materials and Manufacture, 2021, 4, 43-49.	2.1	44
95	Exploring the applicability of natural fibers for the development of biocomposites. EXPRESS Polymer Letters, 2021, 15, 193-193.	2.1	43
96	<scp>Pongamia pinnata</scp> shell powder filled sisal/kevlar hybrid composites: <scp>Physicomechanical</scp> and morphological characteristics. Polymer Composites, 2021, 42, 4434-4447.	4.6	43
97	Jute/Hemp bio-epoxy hybrid bio-composites: Influence of stacking sequence on adhesion of fiber-matrix. International Journal of Adhesion and Adhesives, 2022, 113, 103050.	2.9	43
98	Bioepoxy based hybrid composites from nano-fillers of chicken feather and lignocellulose Ceiba Pentandra. Scientific Reports, 2022, 12, 397.	3.3	43
99	Natural polymers and the hydrogels prepared from them. , 2020, , 17-47.		42
100	A Comprehensive Review on Natural Fibers: Technological and Socio-Economical Aspects. Polymers, 2021, 13, 4280.	4.5	42
101	Fatigue and thermo-mechanical properties of chemically treated Morinda citrifolia fiber-reinforced bio-epoxy composite: A sustainable green material for cleaner production. Journal of Cleaner Production, 2021, 326, 129411.	9.3	41
102	Characterization of Novel Natural Fiber from Saccharum Bengalense Grass (Sarkanda). Journal of Natural Fibers, 2020, 17, 1739-1747.	3.1	40
103	Raw and chemically treated <scp>bioâ€waste</scp> filled (Limonia acidissima shell powder) vinyl ester composites: Physical, mechanical, moisture absorption properties, and microstructure analysis. Journal of Vinyl and Additive Technology, 2021, 27, 97-107.	3.4	40
104	Characterization of Natural Cellulosic Fiber from Cocos nucifera Peduncle for Sustainable Biocomposites. Journal of Natural Fibers, 2022, 19, 9373-9383.	3.1	40
105	Influence of Accelerated Weathering on the Mechanical, Fracture Morphology, Thermal Stability, Contact Angle, and Water Absorption Properties of Natural Fiber Fabric-Based Epoxy Hybrid Composites. Polymers, 2020, 12, 2254.	4.5	39
106	Extraction and Characterization of Cellulose Fibers from the Stem of Momordica Charantia. Journal of Natural Fibers, 2022, 19, 2232-2242.	3.1	38
107	Effect of coir fiber and inorganic filler on physical and mechanical properties of epoxy based hybrid composites. Polymer Composites, 2021, 42, 3911-3921.	4.6	38
108	Synthesis and properties of pandanwangi fiber reinforced polyethylene composites: Evaluation of dicumyl peroxide (DCP) effect. Composites Communications, 2019, 15, 53-57.	6.3	37

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109	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
110	Surface Modification Techniques for the Preparation of Different Novel Biofibers for Composites. , 2020, , 1-34.		37
111	Modification of Fibers and Matrices in Natural Fiber Reinforced Polymer Composites: A Comprehensive Review. Macromolecular Rapid Communications, 2022, 43, .	3.9	37
112	A comprehensive review on performance and machinability of plant fiber polymer composites. Polymer Composites, 2022, 43, 608-623.	4.6	36
113	Bio-composite film from corn starch based vetiver cellulose. Journal of Natural Fibers, 2022, 19, 14634-14644.	3.1	36
114	Experimental investigation on the mechanical and morphological behavior of <scp>Prosopis juliflora</scp> bark fibers/Eâ€glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. Polymer Composites, 2020, 41, 4983-4993.	4.6	35
115	Characterization of Chemically Treated Limonia Acidissima (Wood Apple) Shell Powder: Physicochemical, Thermal, and Morphological Properties. Journal of Natural Fibers, 2022, 19, 4093-4104.	3.1	35
116	Effect of TiC Nanoparticles Reinforcement in Coir Fiber Based Bio/Synthetic Epoxy Hybrid Composites: Mechanical and Thermal Characteristics. Journal of Polymers and the Environment, 2021, 29, 2609-2627.	5.0	34
117	Review on nitride compounds and its polymer composites: a multifunctional material. Journal of Materials Research and Technology, 2022, 18, 2175-2193.	5.8	34
118	Characterization of raw and benzoyl chloride treated Impomea pes-caprae fibers and its epoxy composites. Materials Research Express, 2019, 6, 095307.	1.6	33
119	Effect of alkali treatment on performance characterization of Ziziphus mauritiana fiber and its epoxy composites. Journal of Industrial Textiles, 2022, 51, 2444S-2466S.	2.4	33
120	Dielectric properties and interfacial adhesion of jute, kenaf and Eâ€glass fabrics reinforcing epoxy composites. Polymer Composites, 2019, 40, 2142-2153.	4.6	32
121	Utilization of discarded Cymbopogon flexuosus root waste as a novel lignocellulosic fiber for lightweight polymer composite application. Polymer Composites, 2022, 43, 2838-2853.	4.6	32
122	Multiple Regression Model for Predicting Cracks in Soil Amended with Pig Manure Biochar and Wood Biochar. Journal of Hazardous, Toxic, and Radioactive Waste, 2021, 25, .	2.0	31
123	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
124	Properties of organic and inorganic filler hybridization on Timoho <scp>Fiberâ€reinforced</scp> polyester polymer composites. Polymer Composites, 2022, 43, 1147-1156.	4.6	30
125	Characterization of Cocos nucifera L. peduncle fiber reinforced polymer composites for lightweight sustainable applications. Journal of Applied Polymer Science, 2022, 139, .	2.6	29
126	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

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127	Physico-Chemical Properties of Fiber Extracted from the Flower of Celosia Argentea Plant. Journal of Natural Fibers, 2021, 18, 464-473.	3.1	28
128	Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties. Polymer Composites, 2022, 43, 160-172.	4.6	28
129	Toughened bioepoxy blends and composites based on poly(ethylene glycol)-block-poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock Construction and Building Materials, 2021, 271, 121843.	7.2	27
130	Additive manufacturing of jute fiber reinforced polymer composites: A concise review of material forms and methods. Polymer Composites, 2022, 43, 6735-6748.	4.6	27
131	Effect of <scp>TiC</scp> nanoparticles on accelerated weathering of coir fiber filler and basalt fabric reinforced bio/synthetic epoxy hybrid composites: Physicomechanical and thermal characteristics. Polymer Composites, 2021, 42, 4897-4910.	4.6	26
132	Influence of Fillers on the Thermal and Mechanical Properties of Biocomposites: An Overview. , 2020, , 111-133.		26
133	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
134	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
135	Isolation and characterization of cellulose nanowhiskers from Acacia caesia plant. Journal of Applied Polymer Science, 2021, 138, 50213.	2.6	25
136	Indian mallow fiber reinforced polyester composites: mechanical and thermal properties. Journal of Materials Research and Technology, 2021, 11, 274-284.	5.8	25
137	Information in United States Patents on works related to â€˜Natural Fibersâ€™: 2000-2018. Current Materials Science, 2019, 12, 4-76.	0.4	25
138	Mechanical properties of hybrid vetiver/banana fiber mat reinforced vinyl ester composites. Journal of Industrial Textiles, 2022, 51, 5869S-5886S.	2.4	24
139	Suitability Evaluation of Sida mysorensis Plant Fiber as Reinforcement in Polymer Composite. Journal of Natural Fibers, 2022, 19, 1659-1669.	3.1	24
140	Nanoparticles Addition in Coirâ€Basaltâ€Innegra Fibers Reinforced Bio-synthetic Epoxy Composites. Journal of Polymers and the Environment, 2021, 29, 3561-3573.	5.0	24
141	Development of Dioscorea alata stem fibers as eco-friendly reinforcement for composite materials. Journal of King Saud University, Engineering Sciences, 2022, , .	2.0	24
142	Extraction and development of starch-based bioplastics from Prosopis Juliflora Plant: Eco-friendly and sustainability aspects. Current Research in Green and Sustainable Chemistry, 2022, 5, 100296.	5.6	24
143	Effect of Alfa fiber mechanical separation on dielectric properties of hybrid unsaturated polyester composites. Polymer Composites, 2019, 40, 1774-1785.	4.6	23
144	Crashworthiness characterization of jute fiber woven mat reinforced epoxy composite tube for structural application using Taguchiâ€™s method. International Journal of Crashworthiness, 2022, 27, 1351-1367.	1.9	23

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145	Thermo-mechanical Characterization of New Natural Cellulose Fiber from Zmioculus Zamiifolia. Journal of Polymers and the Environment, 2022, 30, 1391-1406.	5.0	23
146	Recycled LDPE/PETG blends and HDPE/PETG blends: mechanical, thermal, and rheological properties. Journal of Materials Research and Technology, 2021, 15, 2445-2458.	5.8	23
147	Basalt fiber reinforced polymer composites filled with nano fillers: A short review. Materials Today: Proceedings, 2022, 52, 2460-2466.	1.8	23
148	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
149	Development and experimental analysis of polymer based composite bipolar plate using <scp>Aquila Taguchi</scp> optimization: Design of experiments. Polymer Composites, 2022, 43, 5522-5533.	4.6	23
150	Effect of processing parameters on tensile properties of recycled polypropylene based composites reinforced with jute fabrics. International Journal of Lightweight Materials and Manufacture, 2020, 3, 144-149.	2.1	22
151	Evaluation of mechanical, thermal and morphological properties of corn husk modified pumice powder reinforced polyester composites. Polymer Composites, 2022, 43, 1763-1771.	4.6	22
152	Mechanical characterization of 3D printed MWCNTs/HDPE nanocomposites. Polymer Testing, 2022, 114, 107703.	4.8	22
153	Characterization of microfiber isolated from Hibiscus sabdariffa var. altissima fiber by steam explosion. Journal of Natural Fibers, 2020, 17, 189-198.	3.1	21
154	Molecular modeling of 2D graphene grain boundaries: Mechanical and fracture aspects. Materials Today: Proceedings, 2022, 52, 2404-2408.	1.8	21
155	Delamination and surface roughness analysis of jute/polyester composites using response surface methodology: Consequence of sodium bicarbonate treatment. Journal of Industrial Textiles, 2022, 51, 360S-377S.	2.4	21
156	Mechanical, thermal, and acoustical studies on natural alternative material for partition walls: A novel experimental investigation. Polymer Composites, 2022, 43, 4711-4720.	4.6	21
157	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
158	Mechanical and Chemical Properties Evaluation of Sheep Wool Fiberâ€“Reinforced Vinylester and Polyester Composites. Materials Performance and Characterization, 2021, 10, 20200036.	0.3	20
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