

Mavinkere Rangappa Sanjay

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1794815/publications.pdf>

Version: 2024-02-01

255
papers

14,927
citations

20759

60
h-index

27345

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. <i>Journal of Cleaner Production</i> , 2018, 172, 566-581.	4.6	1,080
2	A comprehensive review of techniques for natural fibers as reinforcement in composites: Preparation, processing and characterization. <i>Carbohydrate Polymers</i> , 2019, 207, 108-121.	5.1	584
3	Renewable and sustainable biobased materials: An assessment on biofibers, biofilms, biopolymers and biocomposites. <i>Journal of Cleaner Production</i> , 2020, 258, 120978.	4.6	482
4	Natural Fibers as Sustainable and Renewable Resource for Development of Eco-Friendly Composites: A Comprehensive Review. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	475
5	Study on characterization of <i>Furcraea foetida</i> new natural fiber as composite reinforcement for lightweight applications. <i>Carbohydrate Polymers</i> , 2018, 181, 650-658.	5.1	323
6	Characterization of raw and alkali treated new natural cellulosic fibers from <i>Tridax procumbens</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 125, 99-108.	3.6	299
7	A comprehensive review on chemical properties and applications of biopolymers and their composites. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 329-338.	3.6	297
8	Study on Mechanical Properties of Natural - Glass Fibre Reinforced Polymer Hybrid Composites: A Review. <i>Materials Today: Proceedings</i> , 2015, 2, 2959-2967.	0.9	296
9	Polymer matrix-natural fiber composites: An overview. <i>Cogent Engineering</i> , 2018, 5, 1446667.	1.1	265
10	Environment friendly, renewable and sustainable poly lactic acid (PLA) based natural fiber reinforced composites – A comprehensive review. <i>Journal of Cleaner Production</i> , 2021, 310, 127483.	4.6	251
11	Applications of Natural Fibers and Its Composites: An Overview. <i>Natural Resources</i> , 2016, 07, 108-114.	0.2	251
12	Lignocellulosic fiber reinforced composites: Progress, performance, properties, applications, and future perspectives. <i>Polymer Composites</i> , 2022, 43, 645-691.	2.3	182
13	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. <i>Polymer Composites</i> , 2020, 41, 3940-3965.	2.3	179
14	A new study on effect of various chemical treatments on <i>Agave Americana</i> fiber for composite reinforcement: Physico-chemical, thermal, mechanical and morphological properties. <i>Polymer Testing</i> , 2020, 85, 106437.	2.3	165
15	Life-cycle and environmental impact assessments on processing of plant fibres and its bio-composites: A critical review. <i>Journal of Industrial Textiles</i> , 2022, 51, 5518S-5542S.	1.1	159
16	Mechanical, microstructural, and thermal characterization insights of pyrolyzed carbon black from waste tires reinforced epoxy nanocomposites for coating application. <i>Polymer Composites</i> , 2020, 41, 338-349.	2.3	156
17	A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization. <i>Polymer Composites</i> , 2021, 42, 1588-1630.	2.3	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. <i>Construction and Building Materials</i> , 2020, 235, 117464.	3.2	149

#	ARTICLE	IF	CITATIONS
19	A review on synthesis and characterization of commercially available natural fibers: Part-I. Journal of Natural Fibers, 2019, 16, 1132-1144.	1.7	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.	1.1	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.	1.2	141
22	Hybridization Effect of Sisal/Glass/Epoxy/Filler Based Woven Fabric Reinforced Composites. Experimental Techniques, 2017, 41, 577-584.	0.9	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.	1.1	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.	3.6	135
25	A review on synthesis and characterization of commercially available natural fibers: Part II. Journal of Natural Fibers, 2019, 16, 25-36.	1.7	133
26	Investigation on thermo-mechanical characteristics of treated/untreated <i>Portunus sanguinolentus</i> shell powder-based jute fabrics reinforced epoxy composites. Journal of Industrial Textiles, 2020, 50, 427-459.	1.1	132
27	Characterization of New Natural Cellulosic Fiber from <i>Heteropogon Contortus</i> Plant. Journal of Natural Fibers, 2018, 15, 146-153.	1.7	124
28	Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview. Journal of Natural Fibers, 2022, 19, 4132-4147.	1.7	124
29	Studies on Natural/Glass Fiber Reinforced Polymer Hybrid Composites: An Evolution. Materials Today: Proceedings, 2017, 4, 2739-2747.	0.9	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.	1.7	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.	2.3	117
32	Physicochemical Properties of New Cellulosic Fibers from <i>Azadirachta indica</i> Plant. Journal of Natural Fibers, 2018, 15, 29-38.	1.7	114
33	Characterization of natural fiber obtained from different parts of date palm tree (<i>Phoenix dactylifera</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 3.6 114	3.6	114
34	Characterization of new cellulosic fiber: <i>Dracaena reflexa</i> as a reinforcement for polymer composite structures. Journal of Materials Research and Technology, 2019, 8, 1952-1963.	2.6	113
35	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
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.	1.1	111

#	ARTICLE	IF	CITATIONS
37	Corrosion protective self-healing epoxy resin coatings based on inhibitor and polymeric healing agents encapsulated in organic and inorganic micro and nanocontainers. <i>Nano Structures Nano Objects</i> , 2018, 16, 381-395.	1.9	109
38	Processing and characterization analysis of pyrolyzed oil rubber (from waste tires)â€ epoxy polymer blend composite for lightweight structures and coatings applications. <i>Polymer Engineering and Science</i> , 2019, 59, 2041-2051.	1.5	108
39	Influence of nanofillers on biodegradable composites: A comprehensive review. <i>Polymer Composites</i> , 2021, 42, 5691-5711.	2.3	105
40	A novel approach for development of printed circuit board from biofiber based composites. <i>Polymer Composites</i> , 2020, 41, 4550-4558.	2.3	101
41	Novel <i>Muntingia Calabura</i> bark fiber reinforced green-epoxy composite: A sustainable and green material for cleaner production. <i>Journal of Cleaner Production</i> , 2021, 294, 126337.	4.6	99
42	Sustainable milling of Tiâ€6Alâ€4V: A trade-off between energy efficiency, carbon emissions and machining characteristics under MQL and cryogenic environment. <i>Journal of Cleaner Production</i> , 2021, 281, 125374.	4.6	95
43	Mechanical property analysis of nanocarbon particles/glass fiber reinforced hybrid epoxy composites using RSM. <i>Composites Communications</i> , 2022, 32, 101147.	3.3	93
44	A comprehensive review on natural fiber/<scp>nanoâ€clay</scp> reinforced hybrid polymeric composites: Materials and technologies. <i>Polymer Composites</i> , 2021, 42, 3687-3701.	2.3	91
45	A new assessment on mechanical properties of jute fiber mat with egg shell powder/nanoclay-reinforced polyester matrix composites. <i>Journal of Natural Fibers</i> , 2020, 17, 482-490.	1.7	85
46	Physicochemical and Thermal Properties of <i>Ceiba pentandra</i> Bark Fiber. <i>Journal of Natural Fibers</i> , 2018, 15, 822-829.	1.7	84
47	Characterization of cellulosic fibre from <i>Phoenix pusilla</i> leaves as potential reinforcement for polymeric composites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2597-2604.	2.6	84
48	Characterization of Alkali-Treated and Untreated Natural Fibers from the Stem of <i>Parthenium Hysterophorus</i> . <i>Journal of Natural Fibers</i> , 2021, 18, 80-90.	1.7	84
49	Effect of stacking sequence on properties of coconut leaf sheath/jute/E-glass reinforced phenol formaldehyde hybrid composites. <i>Journal of Industrial Textiles</i> , 2019, 49, 3-32.	1.1	83
50	Green-composites: Ecofriendly and Sustainability. <i>Applied Science and Engineering Progress</i> , 2020, 13, .	0.5	82
51	Physico-chemical and thermal properties of untreated and treated <i>Acacia planifrons</i> bark fibers for composite reinforcement. <i>Materials Letters</i> , 2019, 240, 221-224.	1.3	79
52	Characterization of natural cellulosic fiber from bark of <i>Albizia amara</i> . <i>Journal of Natural Fibers</i> , 2019, 16, 1124-1131.	1.7	79
53	Synthesis and characterization of cellulose nanofibers (CNF) ramie reinforced cassava starch hybrid composites. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 578-586.	3.6	78
54	Synthesis and characterization of cellulosic fiber from red banana peduncle as reinforcement for potential applications. <i>Journal of Natural Fibers</i> , 2019, 16, 768-780.	1.7	78

#	ARTICLE	IF	CITATIONS
55	Effect of Various Chemical Treatments of <i>Prosopis juliflora</i> Fibers as Composite Reinforcement: Physicochemical, Thermal, Mechanical, and Morphological Properties. <i>Journal of Natural Fibers</i> , 2020, 17, 833-844.	1.7	78
56	Effect of Al_2O_3 nanofillers in basalt/epoxy composites: Mechanical and tribological properties. <i>Polymer Composites</i> , 2021, 42, 1727-1740.	2.3	78
57	Characterization of natural cellulosic fiber from <i>Epipremnum aureum</i> stem. <i>Journal of Natural Fibers</i> , 2018, 15, 789-798.	1.7	75
58	Characterization of untreated and alkali treated natural fibers extracted from the stem of <i>Catharanthus roseus</i> . <i>Materials Research Express</i> , 2019, 6, 085406.	0.8	73
59	Alkali treated coir/pineapple leaf fibres reinforced PLA hybrid composites: Evaluation of mechanical, morphological, thermal and physical properties. <i>EXPRESS Polymer Letters</i> , 2020, 14, 717-730.	1.1	73
60	Influence of Sodium Hydroxide (NaOH) Treatment on Mechanical Properties and Morphological Behaviour of Phoenix sp. Fiber/Epoxy Composites. <i>Journal of Polymers and the Environment</i> , 2021, 29, 765-774.	2.4	73
61	Recycling of sisal fiber reinforced polypropylene and polylactic acid composites: Thermo-mechanical properties, morphology, and water absorption behavior. <i>Waste Management</i> , 2019, 97, 71-81.	3.7	72
62	Impact of alkali treatment on physico-chemical, thermal, structural and tensile properties of <i>Carica papaya</i> bark fibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2018, 23, 529-536.	0.9	68
63	Extraction and characterization of natural fiber from <i>Eleusine indica</i> grass as reinforcement of sustainable fiber reinforced polymer composites. <i>Journal of Natural Fibers</i> , 2021, 18, 1742-1750.	1.7	67
64	Characterization of Alkaline and Silane Treated Fibers of "Water Hyacinth Plants" and Reinforcement of "Water Hyacinth Fibers" with Bioepoxy to Develop Fully Biobased Sustainable Ecofriendly Composites. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2749-2760.	2.4	67
65	Extraction and Characterization of Natural Fiber from Stem of <i>Cardiospermum Halicababum</i> . <i>Journal of Natural Fibers</i> , 2021, 18, 898-908.	1.7	67
66	Effect of coir fiber and TiC nanoparticles on basalt fiber reinforced epoxy hybrid composites: physico-mechanical characteristics. <i>Cellulose</i> , 2021, 28, 3451-3471.	2.4	67
67	Development of new hybrid <i>Phoenix pusilla</i> /carbon/fish bone filler reinforced polymer composites. <i>Journal of the Chinese Advanced Materials Society</i> , 2018, 6, 553-560.	0.7	65
68	Study on characterization and physicochemical properties of new natural fiber from <i>Phaseolus vulgaris</i> . <i>Journal of Natural Fibers</i> , 2019, 16, 1035-1042.	1.7	64
69	A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites. <i>Journal of the Textile Institute</i> , 2022, 113, 1231-1239.	1.0	64
70	Studies on Mechanical Properties of Jute/E-Glass Fiber Reinforced Epoxy Hybrid Composites. <i>Journal of Minerals and Materials Characterization and Engineering</i> , 2016, 04, 15-25.	0.1	63
71	A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites. <i>Polymer Composites</i> , 2021, 42, 1891-1900.	2.3	59
72	Characterization of Natural Fibers from <i>Cortaderia Selloana</i> Grass (Pampas) as Reinforcement Material for the Production of the Composites. <i>Journal of Natural Fibers</i> , 2021, 18, 1893-1901.	1.7	58

#	ARTICLE	IF	CITATIONS
73	Effect of Graphene Powder on Banyan Aerial Root Fibers Reinforced Epoxy Composites. Journal of Natural Fibers, 2021, 18, 1029-1036.	1.7	58
74	Characterization of novel natural cellulosic fibers from purple bauhinia for potential reinforcement in polymer composites. Cellulose, 2021, 28, 5373.	2.4	58
75	Recent developments and challenges in natural fiber composites: A review. Polymer Composites, 2022, 43, 2545-2561.	2.3	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.	3.3	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.	1.1	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	2.4	56
79	Extraction and characterization of vetiver grass (Chrysopogon zizanioides) and kenaf fiber (Hibiscus Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Research and Technology, 2020, 9, 773-778.	2.6	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.	3.2	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.	1.7	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.	2.4	54
83	A new study on characterization of <i>Pithecellobium dulce</i> fiber as composite reinforcement for light-weight applications. Journal of Natural Fibers, 2020, 17, 359-370.	1.7	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.	2.4	53
85	A comprehensive review on polymer composites in railway applications. Polymer Composites, 2022, 43, 1238-1251.	2.3	53
86	Characterization of <i>Areva javanica</i> fiber â€œ A possible replacement for synthetic acrylic fiber in the disc brake pad. Journal of Industrial Textiles, 2019, 49, 294-317.	1.1	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.	1.3	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.	1.1	51
89	Cellulose fiber from date palm petioles as potential reinforcement for polymer composites: Physicochemical and structural properties. Polymer Composites, 2021, 42, 3943-3953.	2.3	51
90	Extraction and Characterization of Natural Fibers from <i>Citrullus lanatus</i> Climber. Journal of Natural Fibers, 2022, 19, 621-629.	1.7	49

#	ARTICLE	IF	CITATIONS
91	Performance of Sisal/Hemp Bio-based Epoxy Composites Under Accelerated Weathering. Journal of Polymers and the Environment, 2021, 29, 624-636.	2.4	48
92	Structural and Thermal Properties of Chemically Modified <i>Luffa Cylindrica</i> Fibers. Journal of Natural Fibers, 2021, 18, 1037-1043.	1.7	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.	2.9	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.	1.3	44
95	Exploring the applicability of natural fibers for the development of biocomposites. EXPRESS Polymer Letters, 2021, 15, 193-193.	1.1	43
96	<i>Pongamia pinnata</i> shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics. Polymer Composites, 2021, 42, 4434-4447.	2.3	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.	1.4	43
98	Bioepoxy based hybrid composites from nano-fillers of chicken feather and lignocellulose Ceiba Pentandra. Scientific Reports, 2022, 12, 397.	1.6	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.	2.0	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.	4.6	41
102	Characterization of Novel Natural Fiber from Saccharum Bengalense Grass (Sarkanda). Journal of Natural Fibers, 2020, 17, 1739-1747.	1.7	40
103	Raw and chemically treated bio-waste filled (<i>Limonia acidissima</i> shell powder) vinyl ester composites: Physical, mechanical, moisture absorption properties, and microstructure analysis. Journal of Vinyl and Additive Technology, 2021, 27, 97-107.	1.8	40
104	Characterization of Natural Cellulosic Fiber from <i>Cocos nucifera</i> Peduncle for Sustainable Biocomposites. Journal of Natural Fibers, 2022, 19, 9373-9383.	1.7	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.	2.0	39
106	Extraction and Characterization of Cellulose Fibers from the Stem of <i>Momordica Charantia</i> . Journal of Natural Fibers, 2022, 19, 2232-2242.	1.7	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.	2.3	38
108	Synthesis and properties of pandanwangi fiber reinforced polyethylene composites: Evaluation of dicumyl peroxide (DCP) effect. Composites Communications, 2019, 15, 53-57.	3.3	37

#	ARTICLE	IF	CITATIONS
109	Characterization of chemically treated new natural cellulosic fibers from peduncle of <i>Cocos nucifera</i> L. Var typica. <i>Polymer Composites</i> , 2021, 42, 6403-6416.	2.3	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. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	37
112	A comprehensive review on performance and machinability of plant fiber polymer composites. <i>Polymer Composites</i> , 2022, 43, 608-623.	2.3	36
113	Bio-composite film from corn starch based vetiver cellulose. <i>Journal of Natural Fibers</i> , 2022, 19, 14634-14644.	1.7	36
114	Experimental investigation on the mechanical and morphological behavior of <i>Prosopis juliflora</i> bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. <i>Polymer Composites</i> , 2020, 41, 4983-4993.	2.3	35
115	Characterization of Chemically Treated <i>Limonia Acidissima</i> (Wood Apple) Shell Powder: Physicochemical, Thermal, and Morphological Properties. <i>Journal of Natural Fibers</i> , 2022, 19, 4093-4104.	1.7	35
116	Effect of TiC Nanoparticles Reinforcement in Coir Fiber Based Bio/Synthetic Epoxy Hybrid Composites: Mechanical and Thermal Characteristics. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2609-2627.	2.4	34
117	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
118	Characterization of raw and benzoyl chloride treated <i>Impomea pes-caprae</i> fibers and its epoxy composites. <i>Materials Research Express</i> , 2019, 6, 095307.	0.8	33
119	Effect of alkali treatment on performance characterization of <i>Ziziphus mauritiana</i> fiber and its epoxy composites. <i>Journal of Industrial Textiles</i> , 2022, 51, 2444S-2466S.	1.1	33
120	Dielectric properties and interfacial adhesion of jute, kenaf and E-glass fabrics reinforcing epoxy composites. <i>Polymer Composites</i> , 2019, 40, 2142-2153.	2.3	32
121	Utilization of discarded <i>Cymbopogon flexuosus</i> root waste as a novel lignocellulosic fiber for lightweight polymer composite application. <i>Polymer Composites</i> , 2022, 43, 2838-2853.	2.3	32
122	Multiple Regression Model for Predicting Cracks in Soil Amended with Pig Manure Biochar and Wood Biochar. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2021, 25, .	1.2	31
123	Characterization of discarded fruit waste as substitute for harmful synthetic fiber-reinforced polymer composites. <i>Journal of Materials Science</i> , 2020, 55, 8513-8525.	1.7	30
124	Properties of organic and inorganic filler hybridization on Timoho Fiber-reinforced polyester polymer composites. <i>Polymer Composites</i> , 2022, 43, 1147-1156.	2.3	30
125	Characterization of <i>Cocos nucifera</i> L. peduncle fiber reinforced polymer composites for lightweight sustainable applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	29
126	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

#	ARTICLE	IF	CITATIONS
127	Physico-Chemical Properties of Fiber Extracted from the Flower of <i>Celosia Argentea</i> Plant. Journal of Natural Fibers, 2021, 18, 464-473.	1.7	28
128	Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties. Polymer Composites, 2022, 43, 160-172.	2.3	28
129	Toughened bioepoxy blends and composites based on poly(ethylene glycol)-block-poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlo Construction and Building Materials, 2021, 271, 121843.	3.2	27
130	Additive manufacturing of jute fiber reinforced polymer composites: A concise review of material forms and methods. Polymer Composites, 2022, 43, 6735-6748.	2.3	27
131	Effect of TiO_2 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.	2.3	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.	2.9	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.	2.3	26
135	Isolation and characterization of cellulose nanowhiskers from <i>Acacia caesia</i> plant. Journal of Applied Polymer Science, 2021, 138, 50213.	1.3	25
136	Indian mallow fiber reinforced polyester composites: mechanical and thermal properties. Journal of Materials Research and Technology, 2021, 11, 274-284.	2.6	25
137	Information in United States Patents on works related to "Natural Fibers": 2000-2018. Current Materials Science, 2019, 12, 4-76.	0.2	25
138	Mechanical properties of hybrid vetiver/banana fiber mat reinforced vinyl ester composites. Journal of Industrial Textiles, 2022, 51, 5869S-5886S.	1.1	24
139	Suitability Evaluation of <i>Sida mysorensis</i> Plant Fiber as Reinforcement in Polymer Composite. Journal of Natural Fibers, 2022, 19, 1659-1669.	1.7	24
140	Nanoparticles Addition in Coir-Basalt-Black Innegra Fibers Reinforced Bio-synthetic Epoxy Composites. Journal of Polymers and the Environment, 2021, 29, 3561-3573.	2.4	24
141	Development of Dioscorea alata stem fibers as eco-friendly reinforcement for composite materials. Journal of King Saud University, Engineering Sciences, 2022, , .	1.2	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.	2.9	24
143	Effect of Alfa fiber mechanical separation on dielectric properties of hybrid unsaturated polyester composites. Polymer Composites, 2019, 40, 1774-1785.	2.3	23
144	Crashworthiness characterization of jute fiber woven mat reinforced epoxy composite tube for structural application using Taguchi's method. International Journal of Crashworthiness, 2022, 27, 1351-1367.	1.1	23

#	ARTICLE	IF	CITATIONS
145	Thermo-mechanical Characterization of New Natural Cellulose Fiber from <i>Zmioculus Zamiifolia</i> . Journal of Polymers and the Environment, 2022, 30, 1391-1406.	2.4	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.	2.6	23
147	Basalt fiber reinforced polymer composites filled with nano fillers: A short review. Materials Today: Proceedings, 2022, 52, 2460-2466.	0.9	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.	1.5	23
149	Development and experimental analysis of polymer based composite bipolar plate using <sc>Aquila Taguchi</sc> optimization: Design of experiments. Polymer Composites, 2022, 43, 5522-5533.	2.3	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.	1.3	22
151	Evaluation of mechanical, thermal and morphological properties of corn husk modified pumice powder reinforced polyester composites. Polymer Composites, 2022, 43, 1763-1771.	2.3	22
152	Mechanical characterization of 3D printed MWCNTs/HDPE nanocomposites. Polymer Testing, 2022, 114, 107703.	2.3	22
153	Characterization of microfiber isolated from <i>Hibiscus sabdariffa</i> var. <i>altissima</i> fiber by steam explosion. Journal of Natural Fibers, 2020, 17, 189-198.	1.7	21
154	Molecular modeling of 2D graphene grain boundaries: Mechanical and fracture aspects. Materials Today: Proceedings, 2022, 52, 2404-2408.	0.9	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.	1.1	21
156	Mechanical, thermal, and acoustical studies on natural alternative material for partition walls: A novel experimental investigation. Polymer Composites, 2022, 43, 4711-4720.	2.3	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.	1.7	20
158	Mechanical and Chemical Properties Evaluation of Sheep Wool Fiberâ€“Reinforced Vinylester and Polyester Composites. Materials Performance and Characterization, 2021, 10, 20200036.	0.2	20
159	Suitability examination of novel cellulosic plant fiber from <i>Furcraea selloa</i> K. <i>Koch</i> peduncle for a potential polymeric composite reinforcement. Polymer Composites, 2022, 43, 4223-4243.	2.3	20
160	Polypropylene/high-density polyethylene based blends and nanocomposites with improved toughness. Materials Research Express, 2019, 6, 075334.	0.8	19
161	Effect of Fiber Volume Fraction on Mechanical and Fire Resistance Properties of Basalt/Polyester and Pineapple/Polyester Composites. Journal of Natural Fibers, 2022, 19, 6074-6088.	1.7	19
162	Design and Modeling of Lightweight Polymer Composite Structures. , 2020, , 193-224.		19

#	ARTICLE	IF	CITATIONS
163	Physical and thermo-mechanical properties of bionano reinforced poly(butylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,742 Td (0.7	19
164	Lightweight Graphene Composite Materials. , 2020, , 1-20.		19
165	Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies. Polymer Composites, 2022, 43, 3782-3793.	2.3	19
166	Towards green composites: Bioepoxy composites reinforced with bamboo/basalt/carbon fabrics. Journal of Cleaner Production, 2022, 363, 132314.	4.6	19
167	Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites. Polymer Composites, 2022, 43, 5649-5662.	2.3	19
168	Studies on Ramie cellulose microfibrils reinforced cassava starch composite: influence of microfibrils loading. Journal of Natural Fibers, 2020, 17, 122-131.	1.7	18
169	3D-MID Technology for Surface Modification of Polymer-Based Composites: A Comprehensive Review. Polymers, 2020, 12, 1408.	2.0	18
170	Lifecycle Assessment of Thermoplastic and Thermosetting Bamboo Composites. , 2021, , 235-246.		18
171	Dielectric, vibrational and thermal properties of sisal fibersâ€reinforced poly (lactic acid). Polymer Composites, 2021, 42, 1267-1278.	2.3	18
172	Influence of calcium carbonate fillers on pine fiber reinforced polyester composites. Polymer Composites, 2022, 43, 4306-4317.	2.3	18
173	Extraction of cellulose nanocrystals from red banana peduncle agroâ€waste and application in environmentally friendly biocomposite film. Polymer Composites, 2022, 43, 4942-4958.	2.3	18
174	Multi Response Optimization of Fabrication Parameters of Carbon Fiberâ€Reinforced Aluminium Laminates (CARAL): By Taguchi Method and Gray Relational Analysis. Polymer Composites, 2019, 40, E1041.	2.3	17
175	Mechanical strength retention and service life of Kevlar fiber woven mat reinforced epoxy laminated composites for structural applications. Polymer Composites, 2021, 42, 1855-1866.	2.3	17
176	UV light triggered self-healing of green epoxy coatings. Construction and Building Materials, 2021, 305, 124725.	3.2	17
177	PVA-based blends and composites. , 2022, , 309-326.		17
178	Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites. Polymer Composites, 2022, 43, 4179-4190.	2.3	17
179	Fiber Reinforced Composite Manufacturing With the Aid of Artificial Intelligence â€“ A State-of-the-Art Review. Archives of Computational Methods in Engineering, 2022, 29, 5511-5524.	6.0	17
180	Stalk fibers (rice, wheat, barley, etc.) composites and applications. , 2022, , 347-362.		16

#	ARTICLE	IF	CITATIONS
181	Areca/synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications. <i>Polymer Composites</i> , 2022, 43, 5222-5234.	2.3	15
182	Development of masterbatch for composites using bamboo charcoal powders in poly(lactic) acid. <i>Polymer Composites</i> , 2020, 41, 5082-5095.	2.3	14
183	Preparation and Experimental Investigation on Mechanical and Tribological Performance of Hemp-Glass Fiber Reinforced Laminated Composites for Lightweight Applications. <i>Advances in Civil Engineering Materials</i> , 2021, 10, 20200187.	0.2	14
184	Mechanical, acoustic and vibration performance of intra-ply Kevlar/PALF epoxy hybrid composites: Effects of different weaving patterns. <i>Polymer Composites</i> , 2022, 43, 3902-3914.	2.3	14
185	Polymer composites from natural fibers and recycled waste surgical masks during COVID-19 pandemic. <i>Polymer Composites</i> , 2022, 43, 3944-3950.	2.3	14
186	Waste coconut leaf sheath as reinforcement composite material with phenol-formaldehyde matrix. <i>Polymer Composites</i> , 2022, 43, 1985-1995.	2.3	13
187	Mechanical and thermal analysis of coir fiber reinforced jute/bamboo hybrid epoxy composites. <i>Polymer Composites</i> , 2022, 43, 4700-4710.	2.3	13
188	A sustainable solution for enhanced food packaging via a science-based composite blend of natural-sourced chitosan and microbial extracellular polymeric substances. <i>Journal of Food Processing and Preservation</i> , 2021, 45, .	0.9	12
189	Impact Strength of Hybrid Epoxy-Basalt Composites Modified with Mineral and Natural Fillers. <i>ChemEngineering</i> , 2021, 5, 56.	1.0	12
190	Evaluation of impact, thermo-physical properties, and morphology of cornhusk fiber-reinforced polyester composites. <i>Polymer Composites</i> , 2022, 43, 2771-2778.	2.3	12
191	Thermally mendable and improved hydrophilic bioepoxy/PEG-PPG-PEG blends for coating application. <i>Materials Research Express</i> , 2019, 6, 025307.	0.8	11
192	Intermolecular hydrogen bonding in developing nanostructured epoxy shape memory thermosets: Effects on morphology, thermo-mechanical properties and surface wetting. <i>Polymer Testing</i> , 2020, 81, 106279.	2.3	11
193	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
194	Effect of coir fiber and inorganic filler hybridization on Innegra fiber-reinforced epoxy polymer composites: physical and mechanical properties. <i>Cellulose</i> , 2021, 28, 9803-9820.	2.4	11
195	Natural Fibers as Perspective Materials. King Mongkut's University of Technology North Bangkok <i>International Journal of Applied Science and Technology</i> , 2018, 11, .	0.2	11
196	Development and characterization of <i>Hevea brasiliensis</i> particulates filled polyethylene composites. <i>Polymer Composites</i> , 2022, 43, 2047-2054.	2.3	11
197	The mechanical properties of alkali and laccase treated pterocarpus angolensis (mukwa)-polylactic acid (PLA) composites. <i>International Journal of Biological Macromolecules</i> , 2022, 217, 398-406.	3.6	11
198	Synergistic effects of ethylene propylene diene copolymer and carbon nanofiber on the thermo-mechanical properties of polypropylene/high-density polyethylene composites. <i>Materials Research Express</i> , 2019, 6, 085302.	0.8	10

#	ARTICLE	IF	CITATIONS
199	TOPSIS method for selection of best composite laminate. , 2019, , 199-209.		10
200	Characterization of <sc><i>Syzygium cumini</i></sc> particulates<sc>filled E-glass</sc> fiber reinforced epoxy composites. Polymer Composites, 2021, 42, 6298-6309.	2.3	10
201	A Review on Computer-Aided Design and Manufacturing Processes in Design and Architecture. Archives of Computational Methods in Engineering, 2022, 29, 3973-3980.	6.0	10
202	Aging effects on free vibration and damping characteristics of polymer based biocomposites: A review. Polymer Composites, 2022, 43, 3890-3901.	2.3	10
203	Design, fabrication, and characterization of natural fillers loaded <sc>HDPE</sc> composites for domestic applications. Polymer Composites, 2022, 43, 5168-5178.	2.3	10
204	Advanced Composite in Aerospace Applications: Opportunities, Challenges, and Future Perspective. , 2022, , 471-498.		9
205	Biopolymers-Based Nanocomposites: Properties and Applications. , 2019, , 255-272.		8
206	Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement. IOP Conference Series: Materials Science and Engineering, 2019, 653, 012016.	0.3	8
207	Accelerated weathering studies of bioepoxy/ionic liquid blends: influence on physical, thermo-mechanical, morphology and surface properties. Materials Research Express, 2020, 7, 025302.	0.8	8
208	Trends and Developments in Natural Fiber Composites. Applied Science and Engineering Progress, 2021, , .	0.5	8
209	Characterization of <i>Sida acuta</i> fiber and its polymer composites with effect of fly ash. Journal of Natural Fibers, 2022, 19, 8811-8829.	1.7	8
210	Plastics in Automotive Applications. , 2022, , 103-113.		8
211	Solid particle erosion, water absorption and thickness swelling behavior of intra ply <sc>Kevlar</sc>/<sc>PALF</sc> fiber epoxy hybrid composites. Polymer Composites, 2022, 43, 3929-3943.	2.3	8
212	Studies on mechanical and thermal properties of cellulosic fiber fillers reinforced epoxy composites. Polymer Composites, 2022, 43, 4297-4305.	2.3	8
213	Effect of hybridization on physio-mechanical behavior of Vetiver and Jute fibers reinforced epoxy composites for structural applications: Studies on fabrication, physicommechanical, water-absorption, and morphological properties. Journal of Industrial Textiles, 2022, 51, 2642S-2664S.	1.1	8
214	Effects of different weaving patterns on thermomechanical and dynamic mechanical properties of Kevlar/pineapple leaf fiber hybrid composites. Polymer Composites, 2022, 43, 4979-4997.	2.3	8
215	Extraction of Polymeric Biofloculant from Enterobacter sp. and Adsorptive Kinetic Studies on Industrial Dye Removal Applications. Journal of Polymers and the Environment, 2021, 29, 1040-1049.	2.4	7
216	<sc>Thermo-mechanical</sc>, rheological and morphology properties of polypropylene composites: Residual <sc>CaCO₃</sc> as a sustainable by-product. Polymer Composites, 2021, 42, 4643-4659.	2.3	7

#	ARTICLE	IF	CITATIONS
217	The Influence of Fiber Processing and Alkaline Treatment on the Properties of Natural Fiber-reinforced Composites: A Review. Applied Science and Engineering Progress, 2021, , .	0.5	7
218	Isolation and Characterization of New Cellulosic Microfibers from Pandan Duri (<i>Pandanus) Tj ETQq0 0 0 rgBT /Oyerlock 10,Tf 50 702	1.7	7
219	Self-repairing hollow-fiber polymer composites. , 2020, , 313-326.		6
220	Applications and Drawbacks of Bamboo Fiber Composites. , 2021, , 247-270.		6
221	Tensile Strength and Moisture Resistance Properties of Biocomposite Films Based on Polyvinyl Alcohol (PVA) with Cellulose as Reinforcement from Durian Peel Fibers. E3S Web of Conferences, 2021, 302, 02001.	0.2	5
222	Mechanical, Electrical and Thermal Behaviour of Additively Manufactured Thermoplastic Composites for High Performance Applications. Springer Series in Advanced Manufacturing, 2021, , 167-199.	0.2	5
223	Hybrid nanocomposites based on cellulose nanocrystals/nanofibrils: From preparation to applications. , 2021, , 223-245.		5
224	Water Hyacinth for Biocompositesâ€™ An Overview. , 2020, , 171-179.		5
225	Effect of Chemically Treated Bamboo Fiber Reinforcement on the Dielectric Properties of Epoxy Composites. , 2021, , 111-126.		5
226	Mechanical, Structural, Thermal and Tribological Properties of Nanoclay Based Phenolic Composites. , 2021, , 123-138.		5
227	Sugarcane nanocellulose fiber-reinforced vinyl ester nanocomposites. , 2021, , 249-264.		4
228	Mediumâ€™term absorption kinetics and thermal stability analysis of hybrid fiber metal laminate and experimental investigations on its physical and tensile properties. Polymer Composites, 2021, 42, 4155-4165.	2.3	4
229	Fabrication and characterization of chicken feather fiber-reinforced polymer composites. , 2021, , 225-247.		4
230	Biodegradable polymers and green-based antimicrobial packaging materials. , 2022, , 717-733.		4
231	Anti-Gnawing, Thermo-Mechanical and Rheological Properties of Polyvinyl Chloride: Effect of Capsicum Oleoresin and Denatonium Benzoate. Journal of Composites Science, 2022, 6, 8.	1.4	4
232	Kenaf fibers, their composites and applications. , 2022, , 283-304.		4
233	A novel and prediction approach of sheep wool reinforced polyester composites: Surface qualities and hybrid modeling. Polymer Composites, 2022, 43, 5274-5290.	2.3	4
234	Influence of microwave power and HDPE blend ratio on thermal and mechanical properties of kenaf reinforced PLLA/HDPE blended composites. Journal of Polymer Research, 2022, 29, .	1.2	4

#	ARTICLE	IF	CITATIONS
235	Toughened PS/LDPE/SEBS/xGnP ternary composites: morphology, mechanical and viscoelastic properties. International Journal of Lightweight Materials and Manufacture, 2019, 2, 64-71.	1.3	3
236	Inorganic Nanofillers-Based Thermoplastic and Thermosetting Composites. , 2020, , 309-330.		3
237	Free Vibration Analysis of Bamboo Fiber-Based Polymer Composite. , 2021, , 97-110.		3
238	Effects of deposition time and RF power on the film characteristics of magnetron sputtered silicon carbide thin films. Materials Today: Proceedings, 2022, 52, 2432-2438.	0.9	3
239	Introduction to bio-based fibers and their composites. , 2022, , 1-20.		3
240	Biomedical Applications of Polymer/Layered Double Hydroxide Bionanocomposites. , 2019, , 315-322.		2
241	Design and Fabrication of Ginger Harvesting Machine. World Journal of Engineering and Technology, 2015, 03, 320-338.	0.3	2
242	Structure and Surface Morphology Techniques for Biopolymers. , 2020, , 35-70.		2
243	Influence of sodium bicarbonate treatment on the free vibration characteristics of Phoenix sp. fiber loaded polyester composites. Materials Today: Proceedings, 2021, , .	0.9	2
244	Electrical properties of polymer nanocomposites. , 2022, , 73-90.		2
245	Rheology of Shape-Memory Polymers, Polymer Blends, and Composites. Advanced Structured Materials, 2020, , 85-94.	0.3	1
246	Outline to tribology of polymer composites. , 2021, , 1-5.		1
247	Tribological applications of polymer composites. , 2021, , 355-368.		1
248	Environmental Issues Related to Packaging Materials. , 2020, , 127-140.		1
249	Introduction to biodegradable polymers. , 2022, , 1-18.		1
250	Limonia Acidissima (wood-apple) shell: Micro and nanoparticles preparation and chemical treatment. Materials Today: Proceedings, 2022, 52, 2543-2547.	0.9	1
251	Self-repairing fiber polymer composites: mechanisms and properties. , 2020, , 71-85.		0
252	Environmental Friendly Materials for Lightweight Structural Components. Journal of Applied Agricultural Science and Technology, 2020, 4, 1.	0.0	0

#	ARTICLE	IF	CITATIONS
253	Applications of Nanotechnology in Food Packaging. , 2020, , 369-386.		0
254	Hydrophobic and Hydrophilic Polymer Coatings. , 2020, , 247-268.		0
255	Introduction to plant fibers and their composites. , 2022, , 1-24.		0