

Flax fiber-based polymer composites: a review

Advanced Composites and Hybrid Materials

5, 1-20

DOI: [10.1007/s42114-021-00246-9](https://doi.org/10.1007/s42114-021-00246-9)

Citation Report

#	ARTICLE	IF	CITATIONS
1	A Review of Flax Fiber Reinforced Thermoset Polymer Composites: Structure and Mechanical Performance. <i>Journal of Natural Fibers</i> , 2022, 19, 9656-9680.	3.1	9
2	Effects of two different enzyme treatments on the microstructure of outer surface of wheat straw. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 934-947.	21.1	12
3	A comprehensive review on polymer matrix composites: material selection, fabrication, and application. <i>Polymer Bulletin</i> , 2023, 80, 47-87.	3.3	30
4	Magnetic polypropylene composites with selectively localized reactive nano-Fe ₃ O ₄ in toughener of POE-g-MAH: Towards super toughness, high flexibility and balanced strength. <i>Materials and Design</i> , 2022, 217, 110607.	7.0	2
5	A Competitive Study of the Static and Fatigue Performance of Flax, Glass, and Flax/Glass Hybrid Composites on the Structural Example of a Light Railway Axle Tie. <i>Frontiers in Materials</i> , 2022, 9, .	2.4	6
6	Combined bactericidal process of lignin and silver in a hybrid nanoparticle on E. coli. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1841-1851.	21.1	36
7	Fabrication and electromagnetic wave absorption properties of RGO/Fe ₃ O ₄ /FeCO ₃ -based composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 12476-12489.	2.2	2
8	An anti-freezing and strong wood-derived hydrogel for high-performance electronic skin and wearable sensing. <i>Composites Part B: Engineering</i> , 2022, 239, 109954.	12.0	41
9	Building blend from recycling acrylonitrile-butadiene-styrene and high impact-resistance polystyrene through dextro-glucose. <i>Reactive and Functional Polymers</i> , 2022, 175, 105287.	4.1	6
10	Knitting integral conformal all-textile strain sensor with commercial apparel characteristics for smart textiles. <i>Applied Materials Today</i> , 2022, 27, 101508.	4.3	16
11	Waterborne polyurethane and its nanocomposites: a mini-review for anti-corrosion coating, flame retardancy, and biomedical applications. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 641-650.	21.1	106
12	Opuntia Ficus Indica based green composites for NPK fertilizer controlled release produced by compression molding and fused deposition modeling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 159, 107030.	7.6	17
13	Protein-Based Flexible Conductive Aerogels for Piezoresistive Pressure Sensors. <i>ACS Applied Bio Materials</i> , 2022, 5, 3360-3370.	4.6	4
14	Electrospun poly(vinyl alcohol)/silica film for radiative cooling. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1966-1975.	21.1	40
15	Highly sensitive strain sensors with wide operation range from strong MXene-composited polyvinyl alcohol/sodium carboxymethylcellulose double network hydrogel. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1976-1987.	21.1	112
16	Bioinspired Nanoheterogeneous Alternating Multiarched Architecture: Toward a Superior Strength-Toughness Integration. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32395-32403.	8.0	2
17	Hybrid biocomposites based on polylactic acid and natural fillers from <i>Chamaerops humilis</i> dwarf palm and <i>Posidonia oceanica</i> leaves. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1988-2001.	21.1	16
19	Preparation and characterization of a low viscosity epoxy resin derived from m-divinylbenzene. <i>High Performance Polymers</i> , 2023, 35, 153-165.	1.8	2

#	ARTICLE	IF	CITATIONS
20	Sustainable Fiber-Reinforced Composites: A Review. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	61
21	Fabrication and characterization of $\text{Fe}_2\text{O}_3/\text{PEFB}/\text{PTFE}$ nanocomposites for microwave shielding applications. <i>Polymer Engineering and Science</i> , 2022, 62, 3577-3588.	3.1	5
22	A comprehensive review on phenol-formaldehyde resin-based composites and foams. <i>Polymer Composites</i> , 2022, 43, 8602-8621.	4.6	13
23	Electrospun Nanofibers for Periodontal Treatment: A Recent Progress. <i>International Journal of Nanomedicine</i> , 0, Volume 17, 4137-4162.	6.7	48
24	Interaction of Geopolymer Filler and Alkali Molarity Concentration towards the Fire Properties of Glass-Reinforced Epoxy Composites Fabricated Using Filament Winding Technique. <i>Materials</i> , 2022, 15, 6495.	2.9	3
25	Interfacial Behaviors of Basalt Fiber-Reinforced Polymeric Composites: A Short Review. <i>Advanced Fiber Materials</i> , 2022, 4, 1414-1433.	16.1	17
26	Green composites based on biodegradable polymers and anchovy (<i>Engraulis Encrasicolus</i>) waste suitable for 3D printing applications. <i>Composites Science and Technology</i> , 2022, 230, 109768.	7.8	23
27	Thermogravimetric analysis of lignocellulosic leaf-based fiber-reinforced thermosets polymer composites: an overview. <i>Biomass Conversion and Biorefinery</i> , 0, , .	4.6	7
29	Investigation on 3D Printing of Graphene and Multi-walled Carbon Nanotube Mixed Flexible Electrically Conductive Parts Using Fused Filament Fabrication. <i>Journal of Materials Engineering and Performance</i> , 2023, 32, 6319-6328.	2.5	3
30	Comparison between Tencel-Flax Blended Slub Yarn and Cotton-Flax Blended Slub Yarn. <i>Journal of Textile Science and Technology</i> , 2022, 08, 221-230.	0.7	0
31	Investigation of Natural Fiber Composite in EMI Shielding under the Influence of Hematite and Rice Husk Ash Filler. , 0, , .		1
32	Enhancing the Thermo-Mechanical Properties of Thermoplastic Starch Films Using Rice Straw Fibers as Reinforcement. <i>Chemistry Africa</i> , 2023, 6, 2321-2329.	2.4	3
33	Design and manufacture of 3D-cylindrical scaffolds based on PLA/TPU/n-HA with the help of dual salt leaching technique suggested for use in cancellous bone tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2023, 34, 1430-1452.	3.5	1
34	Sustainable Green Composites From Flax Fiber Reinforced Biopolymer Matrices. , 2023, , 1-13.		0
35	Fabrication of self-cross-linking silicified polyvinylidene chloride emulsions with core-shell structure and its film properties. <i>Polymer Bulletin</i> , 2024, 81, 1651-1673.	3.3	0
36	Analysis of decarburisation mechanism of Fe-C alloy strip. <i>Materials Science and Technology</i> , 2023, 39, 1361-1371.	1.6	0
37	Challenges associated with cellulose composite material: Facet engineering and prospective. <i>Environmental Research</i> , 2023, 223, 115429.	7.5	28
38	Plant fiber-reinforced polymer composites: a review on modification, fabrication, properties, and applications. <i>Polymer Bulletin</i> , 2024, 81, 1-85.	3.3	13

#	ARTICLE	IF	CITATIONS
39	Polyamide 11 Composites Reinforced with Diatomite Biofillerâ€”Mechanical, Rheological and Crystallization Properties. <i>Polymers</i> , 2023, 15, 1563.	4.5	1
40	Design and Development of Copper Trimesic Acid Anchored sPEEK/Polyimide Composite Membranes for Fuel Cell Applications. <i>ChemistrySelect</i> , 2023, 8, .	1.5	3
41	Enhanced mechanical properties of ramie fabric/epoxy composite laminates by silicon polymer. <i>Industrial Crops and Products</i> , 2023, 199, 116778.	5.2	2
42	Enhanced interfacial adhesion of CF/PEEK-titanium hybrid laminates via rare-earth coordination interaction. <i>Composites Science and Technology</i> , 2023, 239, 110070.	7.8	5
43	Characterization of friction and wear of phenolic resin matrix composites reinforced by bamboo fibers of alkaline and LaCl3 treatment. <i>Materials Today Communications</i> , 2023, 35, 106361.	1.9	3
44	Machine Learning-Assisted Tensile Modulus Prediction for Flax Fiber/Shape Memory Epoxy Hygromorph Composites. <i>Applied Mechanics</i> , 2023, 4, 752-762.	1.5	1
45	Strengthening soybean protein adhesive anti-mildew properties: Design strategies, enhancing mechanisms and application potential studies. <i>Materials Today Communications</i> , 2023, 36, 106426.	1.9	1
46	Recycling textile waste into innovative carbon black and applications to smart textiles: a sustainable approach. <i>Biomass Conversion and Biorefinery</i> , 0, , .	4.6	1
47	Effect of stacking sequence and thickness variation on the thermo-mechanical properties of flax-kenaf laminated biocomposites and prediction of the optimal configuration using a decision-making framework. <i>International Polymer Processing</i> , 2023, 38, 404-423.	0.5	3
48	Effect of aspect ratio of synthetic Wollastonite nanofibers on mechanical, thermal and flammability properties of polyoxymethylene nanocomposites. <i>Polymer Composites</i> , 2023, 44, 5839-5851.	4.6	0
50	Potential of Non-wood Fibers as Sustainable Reinforcements for Polymeric Compositesâ€”A Review. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2023, , 123-150.	1.1	0
51	Bamboo fiber strengthened poly(lactic acid) composites with enhanced interfacial compatibility through a multi-layered coating of synergistic treatment strategy. <i>International Journal of Biological Macromolecules</i> , 2023, 249, 126018.	7.5	4
52	Hybrid jute/carbon fiber composites: optimum post-curing time. <i>Iranian Polymer Journal (English)</i> Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	2.4	0
53	Circular Production, Designing, and Mechanical Testing of Polypropylene-Based Reinforced Composite Materials: Statistical Analysis for Potential Automotive and Nuclear Applications. <i>Polymers</i> , 2023, 15, 3410.	4.5	1
54	Improving the Technology of Primary Purification of the Safflower Oil Using Secondary Products of Processing on a Biological Basis. <i>Foods</i> , 2023, 12, 3275.	4.3	0
55	Investigation on the Influence of Process Parameters on the Mechanical Properties of Extruded Bio-Based and Biodegradable Continuous Fiber-Reinforced Thermoplastic Sheets. <i>Polymers</i> , 2023, 15, 3830.	4.5	0
56	Extraction of natural cellulosic fiber from <i>Myriostachya wightiana</i> stems using chemical retting and its characterization for bio-composite applications. <i>Cellulose</i> , 2023, 30, 8819-8837.	4.9	1
57	Polymer-ceramic composites for bone challenging applications: Materials and manufacturing processes. <i>Journal of Thermoplastic Composite Materials</i> , 0, , .	4.2	1

#	ARTICLE	IF	CITATIONS
58	Molecular dynamics simulations guided the preparation of nano-silica/polyimide/cellulose composite insulating paper. <i>Materials and Design</i> , 2023, 233, 112176.	7.0	0
59	Evaluation of the properties of natural rubber bio composite and guava residue (<i>Psidium guajava</i> L.) as sustainable application. <i>Materials Research</i> , 2023, 26, .	1.3	0
60	Effect of Wet and Dry Environments in CNC/MWCNTs/Ag ₂ O Electrically Conductive Films: Material Characterization and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2023, 127, 20749-20761.	3.1	0
61	Evolution of stiffness in flax yarn within flax fiber reinforced composites during moisture absorption. <i>Composites Part B: Engineering</i> , 2024, 268, 111096.	12.0	0
62	Genome of <i>Linum usitatissimum</i> convar. <i>crepitans</i> expands the view on the section <i>Linum</i> . <i>Frontiers in Genetics</i> , 0, 14, .	2.3	0
63	Flax fiber-chitosan biocomposites with tailored structure and switchable physicochemical properties. <i>Carbohydrate Polymer Technologies and Applications</i> , 2023, 6, 100397.	2.6	1
64	ITS and 16S rDNA metagenomic dataset of different soils from flax fields. <i>Data in Brief</i> , 2024, 52, 109827.	1.0	0
65	Hybridization Effect on Interlaminar Bond Strength, Flexural Properties, and Hardness of Carbon-Flax Fiber Thermoplastic Bio-Composites. <i>Polymers</i> , 2023, 15, 4619.	4.5	1
66	Tensile, impact, and the damping performance of woven flax-carbon hybrid polyamide biocomposites. <i>Polymer Composites</i> , 0, , .	4.6	0
67	Biological and bioinspired Bouligand structural materials: Recent advances and perspectives. <i>Matter</i> , 2024, 7, 378-407.	10.0	0
68	Cellulose based materials to accelerate the transition towards sustainability. <i>Industrial Crops and Products</i> , 2024, 210, 118078.	5.2	0
69	Transforming lignin into value-added products: Perspectives on lignin chemistry, lignin-based biocomposites, and pathways for augmenting ligninolytic enzyme production. <i>Advanced Composites and Hybrid Materials</i> , 2024, 7, .	21.1	0
71	Determination of shear strength of additively manufactured poly lactic acid/flax fibre bio-composite via the iosipescu test. <i>Composites Communications</i> , 2024, 47, 101858.	6.3	0