Citation Report

List of articles citing

Composites from renewable and sustainable resources: Challenges and innovations

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495	Preparation of synergistically reinforced transparent bio-polycarbonate nanocomposites with highly dispersed cellulose nanocrystals. **2019**, 21, 5212-5221		36
494	Lignin valorization process control under feedstock uncertainty through a dynamic stochastic programming approach. **2019**, 4, 1740-1747		3
493	Durable Cellulose–Sulfur Composites Derived from Agricultural and Petrochemical Waste. **2019**, 3, 1900062		26
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489	A Method Validation for Simultaneous Determination of Phthalates and Bisphenol A Released from Plastic Water Containers. **2019**, 9, 2945		22
488	Bridging functional nanocomposites to robust macroscale devices. *Science*, **2019**, 364,	33.3	68
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477	About the frontier between filling and reinforcement by fine flax particles in plant fibre composites. **2019**, 141, 111774	8
476	Process optimization for the production of high-concentration ethanol with Scenedesmus raciborskii biomass. **2019**, 294, 122219	25
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474	Conductive Polymer Composites from Renewable Resources: An Overview of Preparation, Properties, and Applications. **2019**, 11,	57
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472	Investigation of the possible origins of the differences in mechanical properties of hemp and flax fibres: A numerical study based on sensitivity analysis. **2019**, 124, 105488	13
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467	Recent developments in the synthesis of poly(hydroxybutyrate) based biocomposites. **2019**, 35, e2855	11
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463	Beating of hemp bast fibres: an examination of a hydro-mechanical treatment on chemical, structural, and nanomechanical property evolutions. **2019**, 26, 5665-5683	7
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461	Durability of Basalt/Hemp Hybrid Thermoplastic Composites. **2019**, 11,	18
460	Effect of the Addition of Natural Rice Bran Oil on the Thermal, Mechanical, Morphological and Viscoelastic Properties of Poly(Lactic Acid). **2019**, 11, 2783	3
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458	Effect of Stacking Sequence and Sodium Bicarbonate Treatment on Quasi-Static and Dynamic Mechanical Properties of Flax/Jute Epoxy-Based Composites. **2019**, 12,	31
457	Damage Kinetics at the Sub-micrometric Scale in Bast Fibers Using Finite Element Simulation and High-Resolution X-Ray Micro-Tomography. **2019**, 10, 194	8
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454	In-Situ Growth and Graphitization Synthesis of Porous Fe3O4/Carbon Fiber Composites Derived from Biomass as Lightweight Microwave Absorber. **2019**, 7, 5318-5328	77
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450	Accelerated Weathering of Polylactide-Based Composites Filled with Linseed Cake: The Influence of Time and Oil Content within the Filler. **2019**, 11,	18
449	Hybrid Green Bionanocomposites of Bio-based Poly(butylene succinate) Reinforced with Pyrolyzed Perennial Grass Microparticles and Graphene Nanoplatelets. **2019**, 4, 20476-20485	9
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444	Economic Aspects of Fiber Reinforced Polymer Composite Recycling. **2020**, 377-397	18

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442	Phthalonitrile Resins Derived from Vanillin: Synthesis, Curing Behavior, and Thermal Properties. **2020**, 38, 72-83	15
441	Modification of porous lignin with metalloporphyrin as an efficient catalyst for the synthesis of cyclic carbonates. **2020**, 45, 111-119	1
440	Sustainable biocomposites from Nylon 6 and polypropylene blends and biocarbon □Studies on tailored morphologies and complex composite structures. **2020**, 129, 105680	4
439	Flax treatment with strategic enzyme combinations: Effect on fiber fineness and mechanical properties of composites. **2020**, 39, 231-245	4
438	High-performance printable paper-like composites derived from plastic flexible film wastes. **2020**, 69, 184-191	2
437	Key advances in development of straw fibre bio-composite boards: An overview. **2020**, 7, 012005	10
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435	Atomic force microscopy reveals how relative humidity impacts the Young's modulus of lignocellulosic polymers and their adhesion with cellulose nanocrystals at the nanoscale. **2020**, 147, 1064-1075	10
434	A tannin-derived zirconium-containing porous hybrid for efficient Meerwein□Ponndorf□Verley reduction under mild conditions. **2020**, 22, 180-186	25
433	Effect of interfacial modifiers and wood flour treatment on the rheological properties of recycled polyethylene/wood flour composites. **2020**, 36, 31-46	4
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430	Native stinging nettle (Urtica dioica L.) growing spontaneously under short rotation coppice for phytomanagement of trace element contaminated soils: Fibre yield, processability and quality. **2020**, 145, 111997	11
429	Highly efficient Fe-N-C oxygen reduction electrocatalyst engineered by sintering atmosphere. **2020**, 449, 227497	10
428	Recycled poly(lactic acid)□based 3D printed sustainable biocomposites: a comparative study with injection molding. **2020**, 7-8, 100027	19
427	Inverse approach for flax yarns mechanical properties identification from statistical mechanical characterization of the fabric. **2020**, 151, 103638	3
426	Preparation of single O-methoxyphenol from lignin and related liquor products as reinforcement for epoxy resin. **2020**, 162, 1285-1291	0

425	Ring-opening polymerization of Ε-lactones and copolymerization with other cyclic monomers. **2020**, 110, 101309	20
424	Optimization of wheat-straw-extracted cellulose via response surface methodology and mechanical properties of its poly(lactide)-based biocomposites. **2020**, 41, 5355-5364	4
423	Properties and Characterization of New Approach Organic Nanoparticle-Based Biocomposite Board. **2020**, 12,	2
422	Recent advances in additive manufacturing of engineering thermoplastics: challenges and opportunities.. **2020**, 10, 36058-36089	15
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420	Insights on the structure-performance relationship of polyphthalamide (PPA) composites reinforced with high-temperature produced biocarbon.. **2020**, 10, 26917-26927	7
419	Study on the 3D printability of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(lactic acid) blends with chain extender using fused filament fabrication. **2020**, 10, 11804	11
418	A Transparent, Skin-Inspired Composite Film with Outstanding Tear Resistance Based on Flat Silk Cocoon. **2020**, 32, e2002695	15
417	Experimental investigation on the mechanical properties of aluminium sandwiched sisal/kenaf/aloevera/jute/flax natural fibre-reinforced epoxy LY556/GY250 composites. **2020**, 096739112097350	4
416	Environmental Impact of Food Packaging Materials: A Review of Contemporary Development from Conventional Plastics to Polylactic Acid Based Materials. **2020**, 13,	77
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414	Effect of a Bio-Based Dispersing Aid (Einar 101) on PLA-Arbocel Biocomposites: Evaluation of the Interfacial Shear Stress on the Final Mechanical Properties. **2020**, 10,	5
413	Experimental Study of the Probabilistic Fatigue Residual Strength of a Carbon Fiber-Reinforced Polymer Matrix Composite. **2020**, 4, 173	3
412	Bacterially Grown Cellulose/Graphene Oxide Composites Infused with Ε-Poly (Glutamic Acid) as Biodegradable Structural Materials with Enhanced Toughness. **2020**, 3, 12055-12063	5
411	Research progress for plastic waste management and manufacture of value-added products. **2020**, 3, 443-461	35
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409	Ultra-Strong, Ultra-Tough, Transparent, and Sustainable Nanocomposite Films for Plastic Substitute. **2020**, 3, 1308-1317	45
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407	Mixed-dimensional assembled superhydrophilic graphene-based aerogel with enhanced mass/charge transportation for efficient photoredox catalysis. **2020**, 252, 117454	3
406	High performance branched poly(lactide) induced by reactive extrusion with low-content cyclic organic peroxide and multifunctional acrylate coagents. **2020**, 205, 122867	4
405	Discovering Biomass Structural Determinants Defining the Properties of Plant-Derived Renewable Carbon Fiber. **2020**, 23, 101405	5
404	Effect of methyl as the simplest C□H side group on the significant variation of physical properties of biodegradable poly(ethylene succinate). **2020**, 90, 106755	5
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401	Upcycling Microbial Cellulose Scraps into Nanowhiskers with Engineered Performance as Fillers in All-Cellulose Composites. **2020**, 12, 46661-46666	8
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390	Sustainable synthesis of 1,2,3,4-cyclohexanetetracarboxylate from sugar-derived carboxylic acids. **2020**, 56, 7499-7502	4

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388	Study on the mechanical and thermal properties of poly(lactic acid)/office waste paper fiber composites. **2020**, 137, 49390	7
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381	Composite Hydrogels in Three-Dimensional Models. **2020**, 8, 611	28
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372	Stiffening, strengthening, and toughening of biodegradable poly(butylene adipate-co-terephthalate) with a low nanoinclusion usage. **2020**, 247, 116687	13

371	Property changes in plant fibres during the processing of bio-based composites. **2020**, 154, 112705	22
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366	Novel biodegradable polymer films based on poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and Ceiba pentandra natural fibers for packaging applications. **2020**, 25, 100538	27
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364	Development, processing and applications of bio-sourced cellulose nanocrystal composites. **2020**, 103, 101221	84
363	Biocarbon from peanut hulls and their green composites with biobased poly(trimethylene terephthalate) (PTT). **2020**, 10, 3310	26
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359	Interface modification and the influence on damage development of flax fibre–Epoxy composites when subjected to hygroscopic cycling. **2020**, 31, S273-S279	7
358	Citric Acid-Modified Cellulose-Based Tough and Self-Healable Composite Formed by Two Kinds of Noncovalent Bonding. **2020**, 2, 2274-2283	12
357	Novel bio-based phase change materials with high enthalpy for thermal energy storage. **2020**, 268, 114979	19
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355	Water Absorption and Hygrothermal Aging Behavior of Wood-Polypropylene Composites. **2020**, 12,	14
354	High-Yield Production of Lignin-Derived Functional Carbon Nanosheet for Dye Adsorption. **2020**, 12,	3

353	A comparative study of thermal- and electrocatalytic conversion of furfural: methylfuran as a primary and major product. **2021**, 51, 19-26	9
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324	Biobased Materials as a Sustainable Potential for Edible Packaging. **2021**, 111-135	0
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322	Effect of surface modification and fiber content on the mechanical performance of compression molded polyethylene-maple composites. **2021**, 42, 1977-1987	2
321	Sustainable Biocomposites from Recycled Bale Wrap Plastic and Agave Fiber: Processing and Property Evaluation. **2021**, 6, 2856-2864	3
320	Cocoa: Beyond chocolate, a promising material for potential value-added products. **2021**, 267-288	1
319	Inference on errors in industrial parts: Kriging and variogram versus geometrical product specifications standard. **2021**, 37, 839	1
318	Recyclable, reprocessable, self-adhered and repairable carbon fiber reinforced polymers using full biobased matrices from camphoric acid and epoxidized soybean oil. **2021**, 23, 2763-2772	18

317	High-performance soy protein-based films from cellulose nanofibers and graphene oxide constructed synergistically hydrogen and chemical bonding.. **2021**, 11, 22812-22819	2
316	Failure Mechanisms of Biobased Composites. **2021**, 87-106	2
315	Probing the dynamical behavior in glass transition of PVPh-PEO blend. **2021**, 554, 120561	
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309	Modified Nanoclays/Straw Fillers as Functional Additives of Natural Rubber Biocomposites. **2021**, 13,	2
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306	Development of New Composite Materials from Tetra Pak Packaging Waste. 316, 3-8	
305	Natural Fibres as a Sustainable Reinforcement Constituent in Aligned Discontinuous Polymer Composites Produced by the HiPerDiF Method. **2021**, 14,	3
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300	Interfacial structure and property of eco-friendly carboxymethyl cellulose/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) biocomposites. **2021**, 179, 550-556	4

299	Extraction, Treatment and Applications of Natural Fibers for Bio-Composites □A Critical Review. **2021**, 36, 114-130	6
298	Surface nanocrystallization of wood particles from biomass waste for regenerated isotropic wood with excellent properties. **2021**, 8, nwab096	
297	Microplastics release from victuals packaging materials during daily usage. **2021**, 3, e12107	9
296	Pyrolyzed biomass from corn ethanol industry coproduct and their polypropylene-based composites: Effect of heat treatment temperature on performance of the biocomposites. **2021**, 215, 108714	4
295	Physical and Mechanical Properties of Biocomposites Based on Lignocellulosic Fibers. **2021**, 77-108	
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292	Elaboration by Wrapping Process and Multiscale Characterisation of Thermoplastic Bio-Composite Based on Hemp/PA11 Constituents. **2021**, 11, 770	0
291	Extensive investigation of the ultrastructure of kink-bands in flax fibres. **2021**, 164, 113368	11
290	Biocomposites from biobased polyamide 4,10 and waste corn cob based biocarbon. **2021**, 145, 106340	8
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286	Mechanical and Physicochemical Properties of 3D-Printed Agave Fibers/Poly(lactic) Acid Biocomposites. **2021**, 14,	4
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284	Fully biodegradable polylactide foams with ultrahigh expansion ratio and heat resistance for green packaging. **2021**, 183, 222-234	8
283	CCUS As a second-best choice for China's carbon neutrality: an institutional analysis. **2021**, 21, 927-938	2
282	High-Performance All-Bio-Based Laminates Derived from Delignified Wood. **2021**, 9, 9638-9646	3

281	Sustainable Wood Nanotechnologies for Wood Composites Processed by In-Situ Polymerization. **2021**, 9, 682883	7
280	Melt-processed poly (vinyl alcohol)/corn starch/nanocellulose composites with improved mechanical properties. **2021**, 183, 1903-1910	12
279	Marine Fouling Characteristics of Biocomposites in a Coral Reef Ecosystem. **2021**, 5, 2100089	2
278	Effect of Wood Fiber Surface Treatment on the Properties of Recycled HDPE/Maple Fiber Composites. **2021**, 5, 177	1
277	Nano WO3-Catalyzed One-Pot Process for Mild Oxidative Depolymerization of Lignin and its Model Compounds. **2021**, 13, 3836-3845	4
276	IsPETase- and IsMHETase-Catalyzed Cascade Degradation Mechanism toward Polyethylene Terephthalate. **2021**, 9, 9823-9832	7
275	Non-thermal plasma enhances performances of biochar in wastewater treatment and energy storage applications. 1	1
274	Novel Smart Insulating Materials Achieving Targeting Self-Healing of Electrical Trees: High Performance, Low Cost, and Eco-Friendliness. **2021**, 13, 33485-33495	8
273	Enhancing CF/PEEK interfacial adhesion by modified PEEK grafted with carbon nanotubes. **2021**, 210, 108831	14
272	Circular economy in biocomposite development: State-of-the-art, challenges and emerging trends. **2021**, 5, 100138	21
271	Current Strategies for the Production of Sustainable Biopolymer Composites. **2021**, 13,	6
270	Starch-based isocyanate- and non-isocyanate polyurethane hybrids: A review on synthesis, performance and biodegradation. **2021**, 265, 118029	11
269	Biodegradable green composites: It's never too late to mend. **2021**, 30, 100482	13
268	Ultrahigh performance polylactide achieved by the design of molecular structure. **2021**, 206, 109779	2
267	Research Progress on Durability of Cellulose Fiber-Reinforced Cement-Based Composites. **2021**, 2021, 1-13	5
266	Facile design of tough, strong, and UV-shielding soy protein-based composite films. **2021**, 166, 113474	5
265	Deconstruction and Reassembly of Renewable Polymers and Biocolloids into Next Generation Structured Materials. **2021**, 121, 14088-14188	23
264	Effect of Fiber Shape on the Tribological, Mechanical, and Morphological Behaviors of Sisal Fiber-Reinforced Resin-Based Friction Materials: Helical, Undulated, and Straight Shapes. **2021**, 14,	4

263	Influence of Ta2O5 on the micromorphology and high-temperature oxidation resistance of MoSi2-based composite coating for protecting niobium. **2021**, 179, 111328	4
262	Gaussian process regression-based detection and correction of disturbances in surface topography measurements.	2
261	Biomaterials Printing for Sustainability. **2022**, 15-28	
260	Toughening of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by phenyl terminated hyperbranched polyesters with higher thermal stability. **2022**, 139, 51551	1
259	Experimental Determination of Coefficients for the Renner Model of the Thermodynamic Equation of State of the Poly(butylene succinate) and Wheat Bran Biocomposites. **2021**, 14,	1
258	Mechanically strong, cost-efficiency, and sustainable fully wood-derived structural materials by micro/nanoscale design. **2021**, 14, 3043-3050	2
257	Lessons on textile history and fibre durability from a 4,000-year-old Egyptian flax yarn. **2021**, 7, 1200-1206	5
256	Top-down fabrication of biodegradable multilayer tunicate cellulose films with controlled mechanical properties. **2021**, 28, 10415	0
255	Preparation and Characterization of a Robust, High Strength, and Mildew Resistant Fully Biobased Adhesive from Agro-Industrial Wastes.	3
254	One-pot and solvent-free synthesis of castor oil-based polyurethane acrylate oligomers for UV-curable coatings applications. **2021**, 159, 106398	5
253	Bioinspired manufacturing of oriented polysaccharides scaffolds for strong, optical haze and anti-UV/bacterial membranes. **2021**, 270, 118328	2
252	Preparation, properties and high-temperature oxidation resistance of MoSi2-HfO2 composite coating to protect niobium using spent MoSi2-based materials. **2021**, 47, 27091-27099	1
251	Robust and sustainable PBAT Hemp residue biocomposites: Reactive extrusion compatibilization and fabrication. **2021**, 215, 109014	4
250	Fabrication of degradable and high glass-transition temperature thermosets from palm oil and isosorbide for fiber-reinforced composites. **2021**, 170, 113744	2
249	Development of hybrid breathing materials for sustainable composite manufacturing. **2021**, 321, 129028	0
248	Surface engineering of cellulose film with myristic acid for high strength, self-cleaning and biodegradable packaging materials. **2021**, 269, 118315	1
247	Coal as a Filler in Polymer Composites: A Review. **2021**, 174, 105756	3
246	An overview on the recycling of waste ground tyre rubbers in thermoplastic matrices: Effect of added fillers. **2021**, 175, 105894	8

245	A comprehensive review of renewable and sustainable biosourced carbon through pyrolysis in biocomposites uses: Current development and future opportunity. **2021**, 152, 111666	7
244	Production of waste polyethylene terephthalate reinforced biocomposite with RSM design and evaluation of thermophysical properties by ANN. **2021**, 44, 103337	8
243	Intrinsic kink deformation in nanocellulose. **2021**, 273, 118578	2
242	Recent progress in biomass-derived carbonaceous composites for enhanced microwave absorption. **2022**, 606, 406-423	9
241	Future outlooks and challenges of sustainable lightweight composites. **2021**, 285-290	
240	Greener Composites from Plant Fibers: Preparation, Structure, and Properties. **2021**, 307-325	
239	Biodegradable Behavior of Waste Wool and Their Recycled Polyester Preforms in Aqueous and Soil Conditions. **2021**, 9, 1661-1671	0
238	Biocompatible linear diamides derivative-nucleated biodegradable poly(ethylene succinate): Tailored crystallization kinetics, aggregated structure and thermal degradation. **2021**, 183, 109428	6
237	Green composites based on liquid crystalline cellulose fibers and avocado seed starch. **2021**, 56, 6204-6216	3
236	Recycling of plastics and composites materials and degradation technologies for bioplastics and biocomposites. **2021**, 311-333	0
235	Reinforcing effect of nanocrystalline cellulose and office waste paper fibers on mechanical and thermal properties of poly (lactic acid) composites. **2021**, 138, 50462	5
234	A micro-spray-based high-throughput screening system for bioplastic-degrading microorganisms. **2021**, 23, 5429-5436	2
233	Impact of temperature and in situ FeCo catalysis on the architecture and Young's modulus of model wood-based biocarbon. **2021**, 23, 3015-3027	1
232	A review on nanocellulose as a lightweight filler of polyolefin composites. **2020**, 243, 116466	28
231	Epoxidation of agricultural byproduct konjac fly powder and utilization in toughening and strengthening epoxy resin. **2020**, 146, 112161	7
230	Comparative life cycle assessment of coffee jar lids made from biocomposites containing poly(lactic acid) and banana fiber. **2020**, 266, 110493	19
229	Surface cross-linked thermoplastic starch with different UV wavelengths: mechanical, wettability, hygroscopic and degradation properties.. **2020**, 10, 44815-44823	5
228	Characterization of Chicken Feather Biocarbon for Use in Sustainable Biocomposites. **2020**, 7,	19

227	Plant Biosystems Design for a Carbon-Neutral Bioeconomy. **2020**, 2020, 1-5	5
226	Thermal management materials for energy-efficient and sustainable future buildings. **2021**, 57, 12236-12253	2
225	Durable Polylactic Acid (PLA)-Based Sustainable Engineered Blends and Biocomposites: Recent Developments, Challenges, and Opportunities. **2021**, 1, 7-38	10
224	Polyhydroxyalkanoates biopolymers toward decarbonizing economy and sustainable future. **2021**, 1-25	1
223	Polyethylene-coffee husk eco-composites for production of value-added consumer products. **2021**, 31,	1
222	Two-Dimensional Correlation Analysis of iPP Bead Foaming Thermal Features Modeled by Fast Scanning Calorimetry.. **2021**, 10, 1280-1286	0
221	Efficient plant fibre yarn pre-treatment for 3D printed continuous flax fibre/poly(lactic) acid composites. **2021**, 227, 109389	4
220	Changes in (micro and macro) plastic pollution in the sediment of three sandy beaches in the Eastern Mediterranean Sea, in relation to seasonality, beach use and granulometry. **2021**, 173, 113014	1
219	Microbial degradation of plastic in aqueous solutions demonstrated by CO2 evolution and quantification.	1
218	Crossing the Boundaries: From Agriculture and Livestock to the Building Industry. **2020**, 175-190	
217	Bio-inspired hydrogen-bond network for extraction of organometal micropollutants from water. **2021**, 100625	1
216	Plant Cellulose Nanofiber-Derived Structural Material with High-Density Reversible Interaction Networks for Plastic Substitute. **2021**, 21, 8999-9004	4
215	Injection Moldable Hybrid Sustainable Composites of PBS and PHBV Reinforced with Talc and Starch as Potential Alternatives to Single-Use Plastic Packaging. **2021**, 100201	0
214	Assessing Rodent Gnawing of Elastomers Containing Soybean Oil Derivatives. **2020**, 8, 18015-18022	1
213	Photo-curing 3D printing of micro-scale bamboo fibers reinforced palm oil-based thermosets composites. **2022**, 152, 106676	5
212	Bio-based composites fabricated from wood fibers through self-bonding technology. **2022**, 287, 132436	3
211	Advances in pretreatment of lignocellulosic biomass for bioenergy production: Challenges and perspectives. **2022**, 343, 126123	15
210	Recycling of natural fiber composites: Challenges and opportunities. **2022**, 177, 105962	11

209	High-quality development in China: Measurement system, spatial pattern, and improvement paths. **2021**, 118, 102458	2
208	Effect of special structure of clam shell powder on structure and properties of castor oil-based composites. **2021**, 138, 49963	2
207	Greener Composites from Plant Fibers: Preparation, Structure, and Properties. **2021**, 1-19	
206	Evolution of the flax cell wall composition during development and after gravitropism by synchrotron fluorescence imaging. **2022**, 175, 114256	2
205	Recycling MoSi2 heating elements for preparing oxidation resistant multilayered coatings. **2022**, 42, 921-934	0
204	Managing Plastic Waste-Sorting, Recycling, Disposal, and Product Redesign. **2021**, 9, 15722-15738	26
203	Analysis of Selected Properties of Injection Moulded Sustainable Biocomposites from Poly(butylene succinate) and Wheat Bran. **2021**, 14,	3
202	Influence of the Size of the Fiber Filler of Corn Stalks in the Polylactide Matrix Composite on the Mechanical and Thermomechanical Properties. **2021**, 14,	0
201	Restricted fiber contraction during amidoximation process for reinforced-concrete structured nanofiber sphere with superior Sb(V) adsorption capacity. **2021**, 426, 127835	0
200	Properties of Multilayer Transparent Bamboo Materials.. **2021**, 6, 33747-33756	3
199	A novel UV, moisture and magnetic field triple-response smart insulating material achieving highly targeted self-healing based on nano-functionalized microcapsules.. **2021**,	2
198	Lignin-derived materials and their applications in rechargeable batteries.	7
197	Bacterial cellulose-based biomaterials: From fabrication to application.. **2022**, 278, 118995	5
196	Selection of Natural Fiber for Sustainable Composites Using Hybrid Multi Criteria Decision Making Techniques. **2022**, 7, 100224	1
195	Biocarbon from spent coffee ground and their sustainable biocomposites with recycled water bottle and bale wrap: A new life for waste plastics and waste food residues for industrial uses. **2022** , 154, 106759	0
194	How the Carbonization Time of Sugarcane Biomass Affects the Microstructure of Biochar and the Adsorption Process?. **2022**, 14, 1571	1
193	Recycled industrial plastics□fine waste incorporated into biocomposites. **2022**, 213-228	
192	Physical-Chemical and Structural Stability of Poly(3HB-co-3HV)/(ligno-)cellulosic Fibre-Based Biocomposites over Successive Dishwashing Cycles.. **2022**, 12,	0

191	Review of Oil Palm Mesocarp Fiber (OPMF) Mechanical and Chemical Properties Improvement to Develop Environment Friendly Material. 1051, 102-108	
190	Micro and nano effects of recycled plastic waste to reinforce and enhance in biocomposites. **2022**, 195-211	
189	Mechanisms of Cellulose Fiber Comminution to Nanocellulose by Hyper Inertia Flows. **2022**, 10, 703-719	0
188	Significantly Enhanced Crystallization of Poly(ethylene succinate--1,2-propylene succinate) by Cellulose Nanocrystals as an Efficient Nucleating Agent.. **2022**, 14,	1
187	Nanomaterials recycling in industrial applications. **2022**, 375-395	
186	PBAT-based blends and composites. **2022**, 327-354	0
185	Complexities of Regioselective Ring-Opening vs Transcarbonylation-Driven Structural Metamorphosis during Organocatalytic Polymerizations of Five-Membered Cyclic Carbonate Glucose Monomers.. **2022**, 2, 515-521	0
184	The effect of surface treatments and graphene-based modifications on mechanical properties of natural jute fiber composites: A review.. **2022**, 25, 103597	6
183	Food residue to reinforce recycled plastic biocomposites. **2022**, 29-49	
182	Fatigue Life Prediction of Bio-composites Subjected to Environmental Aging. **2022**, 219-236	
181	Biofiber composites in building and construction. **2022**, 335-365	0
180	Dielectric properties of biofiber-based polymer composites. **2022**, 159-191	
179	Education and awareness of waste and recycled plastic biocomposites. **2022**, 281-297	
178	Chemistry and Nanotechnology-Oriented Strategies toward Nanocellulose for Human Water Treatment. 2100302	2
177	In Situ Biosynthesis of Biodegradable Functional Bacterial Cellulose for High-Efficiency Particulate Air Filtration. **2022**, 10, 1644-1652	1
176	Preparation and properties of solution cast films from pilot-scale cottonseed protein isolate. **2022**, 178, 114615	1
175	Antimicrobial and improved performance of biodegradable thermoplastic starch by using natural rosin to replace part of glycerol. **2022**, 178, 114613	3
174	Carbon-based catalyst for environmental bioremediation and sustainability: Updates and perspectives on techno-economics and life cycle assessment.. **2022**, 209, 112793	3

173	Sustainable and Climate-Friendly Economic and Technological Development from the Use of Metal Matrix Composites. **2022**, 155-174	1
172	Sustainable approaches to selective hydrolysis of cellulose with robust crystalline structure into glucose promoted by heterogeneous acid catalysts. **2022**, 309-338	0
171	Cellulose Based Flexible and Wearable Sensors for Health Monitoring.	0
170	A Review on the Sustainability Prospects of Bio Fibre Reinforced Composite Materials. **2022**, 361-374	
169	Biomimicry for natural and synthetic composites and use of machine learning in hierarchical design. **2022**, 141-182	
168	Properties Enhancement Nano Coconut Shell Filled in Packaging Plastic Waste Bionanocomposite.. **2022**, 14,	1
167	Study of the Mechanical Properties of Polymer Composites Based on Polyolefins with the Addition of Rice Husk and Compatibilizer. 1053, 9-15	
166	Biocomposites based on natural fibers and polymers: A review on properties and potential applications. 073168442110706	4
165	Biobased Thermosetting Polyester Resin for High-Performance Applications. **2022**, 10, 3442-3454	1
164	Natural Fibre Composites Manufacture using Wrapped Hemp Roving with PA11. **2022**, 4, 1	
163	Sustainable, Malleable, and Recyclable Castor Oil-Derived Poly(urethane urea) Networks with Tunable Mechanical Properties and Shape Memory Performance Based on Dynamic Piperazine□Urea Bonds. **2022**, 55, 2243-2251	4
162	Mechanical, viscoelastic and gas transport behaviour of rotationally molded polyethylene composites with hard- and soft-wood natural fibres. **2022**, 29, 1	0
161	From Corn Husks to Scalable, Strong, Transparent Bio-Plastic Using Direct Delignification-Splicing Strategy. 2100495	1
160	Silk-based bioinspired structural and functional materials.. **2022**, 25, 103940	1
159	Hemicellulose and Nano/Microfibrils Improving the Pliability and Hydrophobic Properties of Cellulose Film by Interstitial Filling and Forming Micro/Nanostructure.. **2022**, 14,	1
158	Preparation of Styrene-Butadiene Rubber (SBR) Composite Incorporated with Collagen-Functionalized Graphene Oxide for Green Tire Application.. **2022**, 8,	2
157	Plastic Waste Management in India: Challenges, Opportunities, and Roadmap for Circular Economy. **2022**, 14, 4425	2
156	Biological matrix composites from cultured plant cells.. **2022**, 119, e2119523119	0

155	Perspectives on food waste management: Prevention and social innovations. **2022**, 31, 190-208	4
154	Mechanical behavior of GFRP-bamboo composite shear connections. **2022**, 331, 127333	1
153	Preparation and characterization of lignin/nano graphene oxide/styrene butadiene rubber composite for automobile tyre application.. **2022**, 206, 363-370	1
152	Conversion from bamboo waste derived biochar to cleaner composites: Synergistic effects of aramid fiber and silica. **2022**, 347, 131336	0
151	Large scale production of catalyst-free poly(ethylene succinate) with intrinsic antibacterial property through the design of hyperthermostable quaternary ammonium monomers. **2022**, 440, 135949	1
150	Scalable method for bio-based solid foams that mimic wood.. **2021**, 11, 24306	0
149	Cellulose Nanofiber Composite Polymeric Materials with Reversible and Movable Cross-links and Evaluation of their Mechanical Properties. **2022**, 4, 403-412	1
148	Oil Cakes as Sustainable Agro-Industrial Feedstock for Biocarbon Materials. **2022**, 9, 21-41	1
147	Rapid Degradation of Cellulose Diacetate by Marine Microbes. **2022**, 9, 37-41	2
146	Tailoring the Barrier Properties of PLA: A State-of-the-Art Review for Food Packaging Applications.. **2022**, 14,	7
145	MXenes: An emergent materials for packaging platforms and looking beyond.	2
144	Digitally Programmable Manufacturing of Living Materials Grown from Biowaste.. **2022**,	0
143	Genetic diversity in populations of Girardinia diversifolia from Nepal Himalaya using ISSR markers. **2022**, 23, 100120	1
142	Polyphenol modified natural collagen fibrous network towards sustainable and antibacterial microfiltration membrane for efficient water disinfection.. **2022**, 218, 118469	2
141	Table_1.docx. **2019**,	
140	Data_Sheet_1.PDF. **2019**,	
139	Video_1.AVI. **2019**,	
138	Video_2.AVI. **2019**,	

137	Efficient Mpv Reductions of Biomass-Derived Aldehydes and Ketones Over an Assembling Zirconium-Gallic Acid Hybrid Under Mild Condition.	
136	Optimized HY via Thermal Modification as a Green Catalyst for One-Pot Synthesis of Fructose from Glucose Isomerization in Methanol/Water Medium. 1	
135	Breathable, Antibacterial, and Biocompatible Collagen Fiber Network Decorated with Zwitterionic Silver Nanoparticles for Plantar Pressure Monitoring.. **2022**,	2
134	The stiffness assessment of the blade composite structure using a proposed sub-model arbitrary rectangular with delamination effect.	0
133	Development and Characterisation of Sustainable Prepregs with Improved Fire Behaviour Based on Furan Resin and Basalt Fibre Reinforcement.. **2022**, 14,	0
132	A sustainable single-component "Silk nacre".. **2022**, 8, eabo0946	2
131	Green Composites from Partially Bio-Based Poly(butylene succinate-co-adipate)-PBSA and Short Hemp Fibers with Itaconic Acid-Derived Compatibilizers and Plasticizers. **2022**, 14, 1968	0
130	Electromagnetic wave absorbing properties of coconut shell-derived nanocomposite. **2022**, 196, 354-364	1
129	Design of the Body and Structure for a Practical and Highly Efficient Solar-Electric Sports Car.	
128	Improvement of Mechanical, Thermal, and Physical Behaviors of Jute/Cotton Biocomposites Reinforced by Spent Tea Leaf Particles. **2022**, 6, 145	
127	Molecular manipulation of lignin by phytogenic protein to enable its multifunctionality for water resistance and anti-mildew adhesive. **2022**, 185, 115088	
126	Carbon Fiber/PLA Recycled Composite. **2022**, 14, 2194	1
125	Spinning from nature: Engineered preparation and application of high-performance bio-based fibers. **2022**,	0
124	Closing the Carbon Loop in the Circular Plastics Economy. 2200247	1
123	"A NEW PEACH PALM FIBER MAT FOR POLYURETHANE MATRIX COMPOSITES: BEHAVIOR TO UV-ACCELERATED WEATHERING ". **2022**, 56, 341-352	0
122	Self-healing of Electrical Tree Damage of Polyethylene/Microcapsules Insulation Composite Material. **2022**,	
121	Nanochitin and Nanochitosan: Chitin Nanostructure Engineering with Multiscale Properties for Biomedical and Environmental Applications. 2203325	2
120	Silane-modified wood fiber filled EPDM bio-composites with improved thermomechanical properties. **2022**, 107029	2

119	Use of biochar co-mediated chitosan mesopores to encapsulate alkane and improve thermal properties. **2022**, 212, 113539	0
118	Performance Simulation of Bio-Reinforced Composite Car Door Panel using Finite Element Analysis. **2021**,	
117	Induction of cellulase production in Trichoderma reesei by a glucose□sophorose mixture as an inducer prepared using stevioside. **2022**, 12, 17392-17400	2
116	Sustainable polymers. **2022**, 2,	4
115	Materials informatics approach using domain modelling for exploring structure□property relationships of polymers. **2022**, 12,	1
114	Current status, challenges and prospects for lignin valorization by using Rhodococcus sp. **2022**, 108004	1
113	Investigation of the crystallization and mechanical properties of wood fiber/polypropylene composites nucleated by a self-assembly □nucleating agent.	2
112	Growing Bacterial Cellulose-Based Sustainable Functional Bulk Nanocomposites by Biosynthesis: Recent Advances and Perspectives. **2022**, 3, 608-619	0
111	Effect of packaging and storage conditions on some quality traits of bovine meat. **2022**, 11,	
110	Enhancement of strength and toughness of bio-nanocomposites with good transparency and heat resistance by reactive processing. **2022**, 25, 104560	
109	Microwave-magnetic field dual-response raspberry-like microspheres for targeted and repeated self-healing from electrical damage of insulating composites.	2
108	Plant waste reinforced epoxy composite: A short review on tensile and flexural strength. **2022**,	
107	A new reduction method based on simultaneous Ti3AlC2 support etching and metal deposition to prepare Pt catalysts for aqueous-phase selective hydrogenation of furfural to furfuryl alcohol.	1
106	Marine polysaccharides-based electromagnetic absorbing/shielding materials: designing principles, structure, and properties.	1
105	Cellulose Nanocrystals Crosslinked with Sulfosuccinic Acid as Sustainable Proton Exchange Membranes for Electrochemical Energy Applications. **2022**, 12, 658	1
104	Merging Plastics, Microbes, and Enzymes: Highlights from an International Workshop.	0
103	Crystalline, Rheological and Mechanical Enhancement in PBAT/PPC/Silica Nanocomposites with Double Percolation Network.	
102	Comparative thermal analysis of coal fuels, biomass, fly ash and polyamide. **2022**, 124840	1

101	Roles of physical filling and chemical crosslinking on the physico-mechanical properties of polylactic acid.	0
100	A comprehensive review of the polyolefin composites and their properties. **2022**, 8, e09932	0
99	Characterization of lignocellulosic S.□persica fibre and its composites: a review. **2022**,	
98	Biopolymeric sustainable materials and their emerging applications. **2022**, 10, 108159	10
97	Lightweight, low-shrinkage and high elastic poly(butylene adipate-co-terephthalate) foams achieved by microcellular foaming using N2 & CO2 as co-blowing agents. **2022**, 64, 102149	1
96	Fabrication of Densified Rice Husk by Sequential Hot-Compressed Water Treatment, Blending with Poly(vinyl alcohol), and Hot Pressing. **2022**, 7, 27638-27648	
95	Approaches for Management and Valorization of Non-Homogeneous, Non-Recyclable Plastic Waste. **2022**, 19, 10088	2
94	Supernucleation Dominates Lignin/Poly(ethylene oxide) Crystallization Kinetics.	
93	Influence of Biofillers on the Properties of Regrind Crystalline Poly(ethylene terephthalate) (CPET). **2022**, 14, 3210	
92	Graphene and CNT-Based Smart Fiber-Reinforced Composites: A Review. 2205723	8
91	Simultaneous Generation of Methyl Esters and CO in Lignin Transformation.	0
90	Simultaneous Generation of Methyl Esters and CO in Lignin Transformation.	
89	Sulfonated Poly(butylene Adipate-co-terephthalate)/Sodium Montmorillonite Nanocomposite Films with an Ultra-High Oxygen Barrier.	1
88	Some Mechanical Properties of Composite Materials with Chopped Wheat Straw Reinforcer and Hybrid Matrix. **2022**, 14, 3175	
87	Improvements in compatibility and properties of biocomposites modified through nanosilica attachment.	
86	Microwave Hybrid Heating for Moulding of Sisal/Jute/HDPE Composites. 1-15	0
85	How does industrial co-agglomeration affect high-quality economic development? Evidence from Chengdu-Chongqing Economic Circle in China. **2022**, 371, 133485	3
84	Nanoengineering and green chemistry-oriented strategies toward nanocelluloses for protein sensing. **2022**, 308, 102758	0

83	Efficient MPV reductions of biomass-derived aldehydes and ketones over an assembling zirconium-gallic acid hybrid under mild condition. **2022**, 328, 125233	0
82	Emerging Modification Technologies of Lignin-based Activated Carbon toward Advanced Applications.	1
81	Micro- and nano-fibrils of manau rattan and solvent-exchange-induced high-haze transparent holocellulose nanofibril film. **2022**, 298, 120075	1
80	Mechanical and water resistance performance of physically cross-linked poly(vinyl alcohol) composite with poly(dopamine) modified cellulose nanocrystals. **2022**, 33, 104413	0
79	Valorization of camelina oil to biobased materials and biofuels for new industrial uses: a review. **2022**, 12, 27230-27245	1
78	High-performance carbon nanotube-cellulose nanofiber bulk materials with thermal management and electromagnetic interference shielding multifunctional applications.	0
77	Molecular firefighting biocomposites for plastic life-cycle management: fabrication, use and upcycling. **2022**, 24, 7531-7544	1
76	Development of high-performance partially biobased thermoset polyester using renewable building blocks from isosorbide, 1,3-propanediol, and fumaric acid. **2022**, 139,	0
75	Review of advanced techniques for manufacturing biocomposites: non-destructive evaluation and artificial intelligence-assisted modeling. **2022**, 57, 16091-16146	1
74	Synergy between Sunlight, Titanium Dioxide, and Microbes Enhances Cellulose Diacetate Degradation in the Ocean. **2022**, 56, 13810-13819	1
73	Facile, Ecofriendly, and Efficient Preparation of Flexible Gold Nanoparticles@Bacterial Nanocellulose Surface-Enhanced Raman Scattering Sensors by Magnetron Sputtering for Trace Detection of Hazardous Materials. **2022**, 10, 13059-13069	0
72	Highly reinforced and degradable lignocellulose biocomposites by polymerization of new polyester oligomers. **2022**, 13,	1
71	Transparent Bioplastics from Super-Low Lignin Wood with Abundant Hydrophobic Cellulose Crystals.	1
70	Bamboo fiber reinforced polypropylene composites for transportation applications. 9,	0
69	Upcycling of Waste Jute Biomass to Advanced Biocarbon Materials: Effect of Pyrolysis Temperature on their Physicochemical and Electrical Properties.	0
68	A review of biodegradable thermoplastic starches, their blends and composites: recent developments and opportunities for single-use plastic packaging alternatives.	3
67	Direct visualization of cooperative adsorption of a string-like molecule onto a solid. **2022**, 8,	2
66	Coupling agent-based modeling with territorial LCA to support agricultural land-use planning. **2022** , 134914	0

65	Magnetically Targeted, Water-Triggered, Self-Healing Microcapsules Based on Microfluidic Techniques Enabling Targeted Healing of Water Tree Damage in Epoxy Resins. **2022**, 14, 49128-49139	0
64	Corncob waste as a potential filler in biocomposites: A decision towards sustainability. **2022**, 9, 100317	0
63	Feedstock design for quality biomaterials. **2022**,	0
62	Edible, Ultra-strong, and Thermal-stable Seaweed-based Structural Material for Tableware. 2208098	1
61	A facile process for adipic acid production in high yield by oxidation of 1,6-hexanediol using the resting cells of Gluconobacter oxydans. **2022**, 21,	0
60	Ionic liquid/high-density polyethylene composite supported molybdenum complex: a powerful, highly stable and easy recoverable catalyst. **2022**, 29,	0
59	Study on Degradation Mechanism of Carbon Fiber-reinforced Anhydride-cured Resin-based Matrix Composites by a Benzyl Alcohol/NaOH System.	0
58	Biocompatible Scaffold Based on Silk Fibroin for Tissue Engineering Applications.	0
57	Improved interfacial performance of bamboo fibers/polylactic acid composites enabled by a self-supplied bio-coupling agent strategy. **2022**, 380, 134719	0
56	Optically transparent, ultra-tough, aerosol-sprayable, waterborne polyurethane composite reinforced with natural polymer nanofibers. **2022**, 247, 110353	1
55	Fully Bio-Based Composites of Poly (Lactic Acid) Reinforced with Cellulose-Graft-Poly-(ε-Caprolactone) Copolymers. **2023**, 11, 1137-1152	0
54	A novel biomass polyurethane-based composite coating with superior radiative cooling, anti-corrosion and recyclability for surface protection. **2023**, 174, 107250	0
53	Collaboration of two-star nanomaterials: The applications of nanocellulose-based metal organic frameworks composites. **2022**, 120359	0
52	Physical and Mechanical Properties of Novel Multilayer Bamboo Laminated Composites Derived from Bamboo Veneer. **2022**, 14, 4820	0
51	All-natural bioinspired nanolignocellulose-derived bulk engineering materials with excellent mechanical properties and environmental stability.	0
50	Sustainable Proposal for Plant-Based Cementitious Composites, Evaluation of Their Mechanical, Durability and Comfort Properties. **2022**, 14, 14397	1
49	Ecotoxicological Effects of Biochar Obtained from Spent Coffee Grounds. **2022**, 25,	0
48	Carbon material/vitrimer composites: Towards sustainable, functional, and high-performance crosslinked polymeric materials. **2023**, 13, 100136	1

47	Structure and properties of starch/chitosan food packaging film containing ultra-low dosage GO with barrier and antibacterial. **2023**, 137, 108329	0
46	Coetaneous Means of Utilization of Green Composite Materials. **2022**, 1-10	0
45	Novel sesame oil cake biomass waste derived cellulose micro-fillers reinforced with basalt/banana fibre-based hybrid polymeric composite for lightweight applications.	0
44	Molecular levers enable anomalously enhanced strength and toughness of cellulose nanocrystal at cryogenic temperature.	0
43	Engineered Living Materials For Sustainability.	1
42	How weak hydration interfaces simultaneously strengthen and toughen nanocellulose materials. **2022**, 101947	0
41	Readily recyclable, high-performance catalyst-free tung oil-derived vitrimer and carbon fiber reinforced composites.	0
40	Synthesis and characterization of siloxane functionalized CO2-based polycarbonate. **2023**, 266, 125623	0
39	Creep properties and damage mechanism of molded glass fiber reinforced plastic.	0
38	Recyclable polythioesters and polydisulfides with near-equilibrium thermodynamics and dynamic covalent bonds.	0
37	Hop natural fiber reinforced poly(butylene succinate-co-butylene adipate) (PBSA) biodegradable plastic: effect of fiber length on performance of biocomposites.	0
36	Acoustic emission of the fracture behaviors of epoxy foam composites reinforced by bamboo fibers. **2023**, 104911	0
35	Life cycle assessment of poly(lactic acid)-based green composites filled with pine needles or kenaf fibers. **2023**, 387, 135901	1
34	Eco-friendly recyclable high performance ramie yarn reinforced polyimine vitrimer composites. **2023**, 457, 141341	0
33	A high-performance, sustainable nacre-mimetic film with montmorillonite nanosheets crosslinked natural wood powders. **2023**, 193, 116202	0
32	The Spatial and Temporal Evolution of Coordination Degree Concerning China□ Cultivated Land Green Utilization Efficiency and High-Quality Agricultural Development. **2023**, 12, 127	2
31	High-Performance Thermoplastics from a Unique Bicyclic Lignin-Derived Diol. **2023**, 11, 2819-2829	0
30	Advances in biomedical polymers and composites: Drug delivery systems. **2023**, 465-495	0

29	Experimental analysis of duo-fiber interaction on the tensile strength of surface-modified flax□enaf-reinforced epoxy composite.	0
28	Characterization and optimization of polylactic acid and polybutylene succinate blend/starch/wheat straw biocomposite by optimal custom mixture design. **2023**, 121, 108000	0
27	Use of a fully biobased and non-reprotoxic epoxy polymer and woven hemp fabric to prepare environmentally friendly composite materials with excellent physical properties. **2023**, 258, 110692	0
26	A new class of high performance metal-fiber thermoplastic composites for additive manufacturing. **2023**, 169, 107519	0
25	Glycol lignin/MAH-g-PP blends and composites with exceptional mechanical properties for automotive applications. **2023**, 238, 110030	0
24	Injection moulded composites from high biomass filled biodegradable plastic: Properties and performance evaluation for single-use applications. **2023**, 11, 100358	0
23	Pultruded carbon fibre reinforced polymer strips produced with a novel bio-based thermoset polyester for structural strengthening. **2023**, 234, 109936	0
22	Thermal properties of spent coffee ground biocomposite using epoxy resin matrix. **2023**,	0
21	Magnetic pyro-hydrochar derived from waste cartons as an efficient activator of peroxymonosulfate for antibiotic dissipation. **2023**, 311, 123288	1
20	Elucidation of Non-Intentionally Added Substances from Plant Fiber/Plastic Composites by UPLC-QTOF/MS. **2023**, 12, 678	0
19	Can Industry Counteract the Ecological Crisis? An Approach for the Development of a New Circular Bioeconomic Model Based on Biocomposite Materials. **2023**, 15, 3382	1
18	Research progress of cellulose-derived carbon-based composites for microwave absorption. **2023**, 34,	0
17	Alkaline Degradation of Plant Fiber Reinforcements in Geopolymer: A Review. **2023**, 28, 1868	1
16	3D printing of living structural biocomposites. **2023**, 62, 21-32	1
15	2nd generation PLA; Lactide formation directly from aqueous lactic acid. **2023**, 177, 106636	0
14	Highly Efficient Cationic Polymerization of β-Pinene, a Bio-Based, Renewable Olefin, with TiCl4 Catalyst from Cryogenic to Energy-Saving Room Temperature Conditions. **2023**, 24, 5170	0
13	Doped Mn Enhanced NiS Electrooxidation Performance of HMF into FDCA at Industrial-Level Current Density. 2214488	0
12	Spatial-temporal differentiation pattern and influencing factors of high-quality development in counties: A case of Sichuan, China. **2023**, 148, 110132	0

11	Synergy of waste plastics and natural fibers as sustainable composites for structural applications concerning circular economy.	0
10	From waste to resource: Methods for vegetable waste transformation into sustainable plant-based bioplastics. **2023**, 61-110	0
9	Implementing Combinative Distance Base Assessment (CODAS) for Selection of Natural Fibre for Long Lasting Composites. 1081, 41-48	0
8	Reprocessing of side-streams towards obtaining valuable bacterial metabolites. **2023**, 107, 2169-2208	0
7	Piezoresistive damage sensing and mechanical characteristics of carbon/glass hybrid thermoplastic composites. 002199832311660	0
6	Mechanical, Thermal, and Fire Retardant Properties of Rice Husk Biochar Reinforced Recycled High-Density Polyethylene Composite Material. **2023**, 15, 1827	0
5	Hierarchical biopolymer-based materials and composites.	0
4	Preparation and properties of composite hydrogels for 3D bioprinting.	0
3	Three-dimensional water diffusion and modelling of flax/shape memory epoxy composites. **2023**, 171, 107574	0
2	Polymer composition optimization approach based on feature extraction of bound and free water using time-domain nuclear magnetic resonance. **2023**, 351, 107438	0
1	Biobased Phase Change Material with Reduced Thermal Conductivity: From Preparation to Analysis of Thermal Insulation Performance.	0