Amar Kumar Mohanty

List of Publications by Year
in descending order

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343 papers	20,620 citations	10956 71 h-index	15683 125 g-index
346 all docs	346 docs citations	346 times ranked	15171 citing authors

#	Article	IF	Citations
1	Studies on curing kinetics of polyphenylene sulfide: An insight into effects of curing temperature and time on structure and <scp>thermoâ€mechanical</scp> behavior. Journal of Applied Polymer Science, 2022, 139, 51817.	1.3	3
2	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. Composites Part A: Applied Science and Manufacturing, 2022, 154, 106759.	3.8	16
3	Value-Added Bio-carbon Production through the Slow Pyrolysis of Waste Bio-oil: Fundamental Studies on Their Structureâ€"Propertyâ€"Processing Co-relation. ACS Omega, 2022, 7, 1612-1627.	1.6	11
4	Microplastics in ecosystems: their implications and mitigation pathways. Environmental Science Advances, 2022, 1, 9-29.	1.0	27
5	Biocomposites from Thermoplastic Postindustrial Waste Starches Filled with Mineral Fillers for Singleâ€Use Flexible Packaging. Macromolecular Materials and Engineering, 2022, 307, .	1.7	7
6	Effect of Simulated Mass-tunable Auxetic Midsole On Vertical Ground Reaction Force. Journal of Biomechanical Engineering, 2022, , .	0.6	1
7	Sustainable polymers. Nature Reviews Methods Primers, 2022, 2, .	11.8	78
8	Biodegradable Polymer Blends: Studies on Performance Control through Droplet to Co-continuous Morphology. ACS Applied Polymer Materials, 2022, 4, 5546-5556.	2.0	9
9	Waste valorization in sustainable engineering materials: Reactive processing of recycled carpets waste with polyamide 6. Polymer Testing, 2022, 114, 107681.	2.3	6
10	Impact of renewable carbon on the properties of composites made by using three types of polymers having different polarity. Journal of Applied Polymer Science, 2021, 138, 49948.	1.3	8
11	Studies on 3D Printability of Novel Impact Modified Nylon 6: Experimental Investigations and Performance Evaluation. Macromolecular Materials and Engineering, 2021, 306, 2000548.	1.7	5
12	Path-dependent rheology of carbon particle-hydroxyethylcellulose fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 126000.	2.3	5
13	Progress in research and applications of Polyphenylene Sulfide blends and composites with carbons. Composites Part B: Engineering, 2021, 209, 108553.	5.9	43
14	Super-tough sustainable biobased composites from polylactide bioplastic and lignin for bio-elastomer application. Polymer, 2021, 212, 123153.	1.8	26
15	The effect of natural fillers on the marine biodegradation behaviour of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV). Scientific Reports, 2021, 11, 911.	1.6	32
16	Ocean plastics: environmental implications and potential routes for mitigation â€" a perspective. RSC Advances, 2021, 11, 21447-21462.	1.7	48
17	Sustainable Biocomposites from Recycled Bale Wrap Plastic and Agave Fiber: Processing and Property Evaluation. ACS Omega, 2021, 6, 2856-2864.	1.6	11
18	Novel sustainable materials from waste plastics: compatibilized blend from discarded bale wrap and plastic bottles. RSC Advances, 2021, 11, 8594-8605.	1.7	7

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19	Effect of a Small Amount of Synthetic Fiber on Performance of Biocarbonâ€Filled Nylonâ€Based Hybrid Biocomposites. Macromolecular Materials and Engineering, 2021, 306, 2000680.	1.7	9
20	Effect of jute fibers on morphological characteristics and properties of thermoplastic starch/biodegradable polyester blend. Cellulose, 2021, 28, 5513.	2.4	20
21	Novel puffball (Lycoperdon Sp.) spores derived hierarchical nanostructured Biocarbon: A preliminary investigation on thermochemical conversion and characterization for supercapacitor applications. Materials Letters, 2021, 291, 129432.	1.3	8
22	Pyrolyzed biomass from corn ethanol industry coproduct and their polypropylene-based composites: Effect of heat treatment temperature on performance of the biocomposites. Composites Part B: Engineering, 2021, 215, 108714.	5.9	15
23	Challenges and new opportunities on barrier performance of biodegradable polymers for sustainable packaging. Progress in Polymer Science, 2021, 117, 101395.	11.8	321
24	Biocomposites from biobased polyamide 4,10 and waste corn cob based biocarbon. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106340.	3.8	21
25	Green Composites from a Bioplastic Blend of Poly(3-hyroxybutyrate-co-3-hydroxyvalerate) and Carbon Dioxide-Derived Poly(propylene carbonate) and Filled with a Corn Ethanol-Industry Co-product. ACS Omega, 2021, 6, 20103-20111.	1.6	5
26	Extrusion Based 3D Printing of Sustainable Biocomposites from Biocarbon and Poly(trimethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	14
27	Impacts of COVID-19 Outbreak on the Municipal Solid Waste Management: Now and beyond the Pandemic. ACS Environmental Au, 2021, 1, 32-45.	3.3	28
28	Evolution of drinking straws and their environmental, economic and societal implications. Journal of Cleaner Production, 2021, 316, 128234.	4.6	22
29	Statistical Design of Biocarbon Reinforced Sustainable Composites from Blends of Polyphthalamide (PPA) and Polyamide 4,10 (PA410). Molecules, 2021, 26, 5387.	1.7	4
30	A comprehensive review of renewable and sustainable biosourced carbon through pyrolysis in biocomposites uses: Current development and future opportunity. Renewable and Sustainable Energy Reviews, 2021, 152, 111666.	8.2	40
31	Impact of temperature and in situ FeCo catalysis on the architecture and Young's modulus of model wood-based biocarbon. Green Chemistry, 2021, 23, 3015-3027.	4.6	7
32	Evaluating the Performance of a Semiaromatic/Aliphatic Polyamide Blend: The Case for Polyphthalamide (PPA) and Polyamide 4,10 (PA410). Polymers, 2021, 13, 3391.	2.0	6
33	Durable Polylactic Acid (PLA)-Based Sustainable Engineered Blends and Biocomposites: Recent Developments, Challenges, and Opportunities. ACS Engineering Au, 2021, 1, 7-38.	2.3	72
34	Sustainable 3D printed composites from recycled ocean plastics and pyrolyzed soy-hulls: Optimization of printing parameters, performance studies and prototypes development. Composites Part C: Open Access, 2021, 6, 100197.	1.5	14
35	Injection moldable hybrid sustainable composites of BioPBS and PHBV reinforced with talc and starch as potential alternatives to single-use plastic packaging. Composites Part C: Open Access, 2021, 6, 100201.	1.5	11
36	Additive manufacturing technology of polymeric materials for customized products: recent developments and future prospective. RSC Advances, 2021, 11, 36398-36438.	1.7	39

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37	Sustainable Biocomposites from Poly(butylene succinate) and Apple Pomace: A Study on Compatibilization Performance. Waste and Biomass Valorization, 2020, 11, 3775-3787.	1.8	35
38	Sustainable biocomposites from Nylon 6 and polypropylene blends and biocarbon â€“ Studies on tailored morphologies and complex composite structures. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105680.	3.8	10
39	Comparison in composite performance after thermooxidative aging of injection molded polyamide 6 with glass fiber, talc, and a sustainable biocarbon filler. Journal of Applied Polymer Science, 2020, 137, 48618.	1.3	20
40	A comparative life-cycle assessment of talc- and biochar-reinforced composites for lightweight automotive parts. Clean Technologies and Environmental Policy, 2020, 22, 639-649.	2.1	35
41	Synthesis and characterization of novel nitrogen doped biocarbons from distillers dried grains with solubles (DDGS) for supercapacitor applications. Bioresource Technology Reports, 2020, 9, 100375.	1.5	12
42	Tailoring the toughness of sustainable polymer blends from biodegradable plastics via morphology transition observed by atomic force microscopy. Polymer Degradation and Stability, 2020, 173, 109066.	2.7	31
43	Development of Toughened Blends of Poly(lactic acid) and Poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (adipate Performance Evaluation. ACS Sustainable Chemistry and Engineering, 2020, 8, 6576-6589.	3.2	63
44	Studies on the dimensional stability and mechanical properties of nanobiocomposites from polyamide 6-filled with biocarbon and nanoclay hybrid systems. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105695.	3.8	43
45	Recent advances in additive manufacturing of engineering thermoplastics: challenges and opportunities. RSC Advances, 2020, 10, 36058-36089.	1.7	46
46	Evaluation of the life cycle of an automotive component produced from biocomposite. Journal of Cleaner Production, 2020, 273, 123051.	4.6	23
47	Insights on the structure-performance relationship of polyphthalamide (PPA) composites reinforced with high-temperature produced biocarbon. RSC Advances, 2020, 10, 26917-26927.	1.7	15
48	Study on the 3D printability of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(lactic acid) blends with chain extender using fused filament fabrication. Scientific Reports, 2020, 10, 11804.	1.6	26
49	Sustainable green composites from biodegradable plastics blend and natural fibre with balanced performance: Synergy of nano-structured blend and reactive extrusion. Composites Science and Technology, 2020, 200, 108369.	3.8	43
50	Development of hybrid composites reinforced with biocarbon/carbon fiber system. The comparative study for PC, ABS and PC/ABS based materials. Composites Part B: Engineering, 2020, 200, 108319.	5.9	33
51	Processing, Carbonization, and Characterization of Lignin Based Electrospun Carbon Fibers: A Review. Frontiers in Energy Research, 2020, 8, .	1.2	33
52	Review of recent advances in the biodegradability of polyhydroxyalkanoate (PHA) bioplastics and their composites. Green Chemistry, 2020, 22, 5519-5558.	4.6	439
53	Morphology and performance relationship studies on biodegradable ternary blends of poly(3-hydroxybutyrate-co-3-hydroxyvalerate), polylactic acid, and polypropylene carbonate. RSC Advances, 2020, 10, 44624-44632.	1.7	12
54	Reactive extrusion of sustainable PHBV/PBAT-based nanocomposite films with organically modified nanoclay for packaging applications: Compression moulding vs. cast film extrusion. Composites Part B: Engineering, 2020, 198, 108141.	5.9	65

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55	Sustainable composites from poly(3-hydroxybutyrate) (PHB) bioplastic and agave natural fibre. Green Chemistry, 2020, 22, 3906-3916.	4.6	51
56	Studies on durability of sustainable biobased composites: a review. RSC Advances, 2020, 10, 17955-17999.	1.7	110
57	Sustainable PHBV/Cellulose Acetate Blends: Effect of a Chain Extender and a Plasticizer. ACS Omega, 2020, 5, 14221-14231.	1.6	23
58	Toughening of Biodegradable Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/Poly(Îµ-caprolactone) Blends by In Situ Reactive Compatibilization. ACS Omega, 2020, 5, 14900-14910.	1.6	34
59	Statistical design of sustainable composites from poly(lactic acid) and grape pomace. Journal of Applied Polymer Science, 2020, 137, 49061.	1.3	9
60	Mechanical optimization of virgin and recycled poly(ethylene terephthalate) biocomposites with sustainable biocarbon through a factorial design. Results in Materials, 2020, 5, 100060.	0.9	20
61	Experimental Investigation on Machinability of Polypropylene Reinforced with Miscanthus Fibers and Biochar. Materials, 2020, 13, 1181.	1.3	9
62	Surface Modification of Flax Fibers for Manufacture of Engineering Thermoplastic Biocomposites. Journal of Composites Science, 2020, 4, 64.	1.4	8
63	Thermal and Mechanical Properties of the Biocomposites of Miscanthus Biocarbon and Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) (PHBV). Polymers, 2020, 12, 1300.	2.0	37
64	Hybrid biocomposites from polypropylene, sustainable biocarbon and graphene nanoplatelets. Scientific Reports, 2020, 10, 10714.	1.6	37
65	Biocarbon from peanut hulls and their green composites with biobased poly(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.6	55
66	Underutilized Agricultural Co-Product as a Sustainable Biofiller for Polyamide 6,6: Effect of Carbonization Temperature. Molecules, 2020, 25, 1455.	1.7	21
67	Characterization of Chicken Feather Biocarbon for Use in Sustainable Biocomposites. Frontiers in Materials, 2020, 7, .	1.2	42
68	Experimental Design of Sustainable 3D-Printed Poly(Lactic Acid)/Biobased Poly(Butylene Succinate) Blends via Fused Deposition Modeling. ACS Sustainable Chemistry and Engineering, 2019, 7, 14460-14470.	3.2	43
69	Environmental and economic prospects of biomaterials in the automotive industry. Clean Technologies and Environmental Policy, 2019, 21, 1535-1548.	2.1	25
70	Tecoma stans flower extract assisted biogenic synthesis of functional Ag-Talc nanostructures for antimicrobial applications. Bioresource Technology Reports, 2019, 7, 100298.	1.5	13
71	Studies on why the heat deflection temperature of polylactide bioplastic cannot be improved by overcrosslinking. Polymer Crystallization, 2019, 2, e10088.	0.5	11
72	Injection Molded Novel Biocomposites from Polypropylene and Sustainable Biocarbon. Molecules, 2019, 24, 4026.	1.7	25

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73	Novel sustainable biobased flame retardant from functionalized vegetable oil for enhanced flame retardancy of engineering plastic. Scientific Reports, 2019, 9, 15971.	1.6	30
74	Green Toughness Modifier from Downstream Corn Oil in Improving Poly(lactic acid) Performance. ACS Applied Polymer Materials, 2019, 1, 3396-3406.	2.0	15
75	Effect of process engineering on the morphology and crystallization of biobased poly(trimethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	0
76	Novel tunable super-tough materials from biodegradable polymer blends: nano-structuring through reactive extrusion. RSC Advances, 2019, 9, 2836-2847.	1.7	21
77	Super Toughened Poly(lactic acid)-Based Ternary Blends via Enhancing Interfacial Compatibility. ACS Omega, 2019, 4, 1955-1968.	1.6	48
78	Formulation optimization of bioreinforced composites from polyolefins and dried distillersâ€™ grains using statistical methods. Composites Part A: Applied Science and Manufacturing, 2019, 119, 246-260.	3.8	3
79	Rheological Monitoring of Chemical Gelation of Biodegradable Poly(butylene succinate): Importance of Peroxide Concentration and Temperature in Reactive Extrusion. ACS Applied Polymer Materials, 2019, 1, 1604-1612.	2.0	5
80	Synergistic thermo-oxidative maleation of PA11 as compatibilization strategy for PA6 and PBT blend. Polymer, 2019, 179, 121594.	1.8	23
81	Crossâ€Linkable Liquidâ€Crystalline Biopolyesteramide as a Multifunctional Polymeric Platform Designed from Corn Oil Sideâ€Stream Product of Bioethanol Industry. Macromolecular Rapid Communications, 2019, 40, e1900093.	2.0	4
82	Miscanthus grass-derived carbon dots to selectively detect Fe³⁺ ions. RSC Advances, 2019, 9, 8628-8637.	1.7	38
83	Sustainable biocarbon as an alternative of traditional fillers for poly(butylene terephthalate)â€based composites: Thermoâ€oxidative aging and durability. Journal of Applied Polymer Science, 2019, 136, 47722.	1.3	24
84	Injection molded biocomposites from polypropylene and lignin: Effect of compatibilizers on interfacial adhesion and performance. Industrial Crops and Products, 2019, 132, 497-510.	2.5	40
85	Comparative study of the extrinsic properties of poly(lactic acid)-based biocomposites filled with talc versus sustainable biocarbon. RSC Advances, 2019, 9, 6752-6761.	1.7	34
86	Sustainable Hydrophobic and Moisture-Resistant Coating Derived from Downstream Corn Oil. ACS Sustainable Chemistry and Engineering, 2019, 7, 8766-8774.	3.2	24
87	Fabrication of conductive Lignin/PAN carbon nanofibers with enhanced graphene for the modified electrodes. Carbon, 2019, 147, 262-275.	5.4	79
88	Strategy To Improve Printability of Renewable Resource-Based Engineering Plastic Tailored for FDM Applications. ACS Omega, 2019, 4, 20297-20307.	1.6	25
89	Hybrid Green Bionanocomposites of Bio-based Poly(butylene succinate) Reinforced with Pyrolyzed Perennial Grass Microparticles and Graphene Nanoplatelets. ACS Omega, 2019, 4, 20476-20485.	1.6	11
90	Physicochemical Characterization and Evaluation of Pecan Nutshell as Biofiller in a Matrix of Poly(lactic acid). Journal of Polymers and the Environment, 2019, 27, 521-532.	2.4	15

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91	Physicochemical analysis of apple and grape pomaces. BioResources, 2019, 14, 3210-3230.	0.5	49
92	Fruit waste valorization for biodegradable biocomposite applications: A review. BioResources, 2019, 14, 10047-10092.	0.5	46
93	Life Cycle Assessment of renewable filler material (biochar) produced from perennial grass (Miscanthus). AIMS Energy, 2019, 7, 430-440.	1.1	15
94	Novel Compatibilized Nylon-Based Ternary Blends with Polypropylene and Poly(lactic acid): Fractionated Crystallization Phenomena and Mechanical Performance. ACS Omega, 2018, 3, 2845-2854.	1.6	36
95	Understanding the morphology formation and properties of polyamide 6 and bioâ€based poly(trimethylene terephthalate) blends. Polymer Engineering and Science, 2018, 58, 2210-2218.	1.5	3
96	Improving the Impact Strength and Heat Resistance of 3D Printed Models: Structure, Property, and Processing Correlationships during Fused Deposition Modeling (FDM) of Poly(Lactic Acid). ACS Omega, 2018, 3, 4400-4411.	1.6	158
97	Graphitization of Miscanthus grass biocarbon enhanced by in situ generated FeCo nanoparticles. Green Chemistry, 2018, 20, 2269-2278.	4.6	60
98	Polycarbonate biocomposites reinforced with a hybrid filler system of recycled carbon fiber and biocarbon: Preparation and thermomechanical characterization. Journal of Applied Polymer Science, 2018, 135, 46449.	1.3	40
99	In Situ Cellulose Nanocrystal-Reinforced Glycerol-Based Biopolyester for Enhancing Poly(lactic acid) Biocomposites. ACS Omega, 2018, 3, 3857-3867.	1.6	16
100	Stereodynamic insight into the thermal history effects on poly(vinyl chloride) calorimetric sub-glass and glass transitions as a fragile glass model. Physical Chemistry Chemical Physics, 2018, 20, 16333-16346.	1.3	2
101	Statistical design of sustainable thermoplastic blends of poly(glycerol succinate-co-maleate) (PGSMA), poly(lactic acid) (PLA) and poly(butylene succinate) (PBS). Polymer Testing, 2018, 65, 420-428.	2.3	35
102	Novel compatibilized nylon-based ternary blends with polypropylene and poly(lactic acid): morphology evolution and rheological behaviour. RSC Advances, 2018, 8, 15709-15724.	1.7	52
103	Thermally Stable Pyrolytic Biocarbon as an Effective and Sustainable Reinforcing Filler for Polyamide Bio-composites Fabrication. Journal of Polymers and the Environment, 2018, 26, 3574-3589.	2.4	60
104	Poly(glycerol-co-diacids) Polyesters: From Glycerol Biorefinery to Sustainable Engineering Applications, A Review. ACS Sustainable Chemistry and Engineering, 2018, 6, 5681-5693.	3.2	67
105	Recent advances and emerging opportunities in phytochemical synthesis of ZnO nanostructures. Materials Science in Semiconductor Processing, 2018, 80, 143-161.	1.9	80
106	Improvement of Impact Toughness of Biodegradable Poly(butylene succinate) by Melt Blending with Sustainable Biobased Glycerol Elastomers. Journal of Polymers and the Environment, 2018, 26, 1078-1087.	2.4	8
107	Blends of polylactic acid with thermoplastic copolyester elastomer: Effect of functionalized terpolymer type on reactive toughening. Polymer Engineering and Science, 2018, 58, 280-290.	1.5	35
108	Biodegradable compatibilized polymer blends for packaging applications: A literature review. Journal of Applied Polymer Science, 2018, 135, 45726.	1.3	234

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109	Plywood adhesives derived from distillers' dried grains with solubles (<scp>DDGS</scp>) incorporating 2â€hydroxyethyl acrylate. Journal of Applied Polymer Science, 2018, 135, 45689.	1.3	5
110	Slow pyrolysis of bio-oil and studies on chemical and physical properties of the resulting new bio-carbon. Journal of Cleaner Production, 2018, 172, 2748-2758.	4.6	44
111	Preparation of an Electric Double Layer Capacitor (EDLC) Using Miscanthus-Derived Biocarbon. ACS Sustainable Chemistry and Engineering, 2018, 6, 318-324.	3.2	86
112	Injection-Molded Bioblends from Lignin and Biodegradable Polymers: Processing and Performance Evaluation. Journal of Polymers and the Environment, 2018, 26, 2360-2373.	2.4	13
113	Bio-poly(butylene succinate) and Its Composites with Grape Pomace: Mechanical Performance and Thermal Properties. ACS Omega, 2018, 3, 15205-15216.	1.6	67
114	Biodegradable Composites Developed from PBAT/PLA Binary Blends and Silk Powder: Compatibilization and Performance Evaluation. ACS Omega, 2018, 3, 12412-12421.	1.6	57
115	Biobased Poly(ethylene terephthalate)/Poly(lactic acid) Blends Tailored with Epoxide Compatibilizers. ACS Omega, 2018, 3, 11759-11769.	1.6	39
116	Composites from renewable and sustainable resources: Challenges and innovations. Science, 2018, 362, 536-542.	6.0	613
117	Characterization of biocarbon generated by high- and low-temperature pyrolysis of soy hulls and coffee chaff: for polymer composite applications. Royal Society Open Science, 2018, 5, 171970.	1.1	61
118	Electrospinning Process and Structure Relationship of Biobased Poly(butylene succinate) for Nanoporous Fibers. ACS Omega, 2018, 3, 5547-5557.	1.6	29
119	Sustainable biocarbon reinforced nylon 6/polypropylene compatibilized blends: Effect of particle size and morphology on performance of the biocomposites. Composites Part A: Applied Science and Manufacturing, 2018, 112, 1-10.	3.8	40
120	Tuning the compatibility to achieve toughened biobased poly(lactic acid)/poly(butylene terephthalate) blends. RSC Advances, 2018, 8, 27709-27724.	1.7	28
121	Effect of Compatibilization on Biobased Rubber-Toughened Poly(trimethylene terephthalate): Miscibility, Morphology, and Mechanical Properties. ACS Omega, 2018, 3, 7300-7309.	1.6	16
122	Sustainable Carbonaceous Biofiller from Miscanthus: Size Reduction, Characterization, and Potential Bio-composites Applications. BioResources, 2018, 13, .	0.5	18
123	Long-term performance of Î²-nucleated toughened polypropylene-biocarbon composites. Composites Part A: Applied Science and Manufacturing, 2018, 105, 274-280.	3.8	13
124	Impact of Butyl Glycidyl Ether Comonomer on Poly(glycerolâ€"succinate) Architecture and Dynamics for Multifunctional Hyperbranched Polymer Design. Macromolecules, 2017, 50, 732-745.	2.2	13
125	Influence of epoxidized natural rubber on the phase structure and toughening behavior of biocarbon reinforced nylon 6 biocomposites. RSC Advances, 2017, 7, 8727-8739.	1.7	40
126	Exploring the Effect of Poly(propylene carbonate) Polyol in a Biobased Epoxy Interpenetrating Network. ACS Omega, 2017, 2, 611-617.	1.6	21

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127	Reactive compatibilization and performance evaluation of miscanthus biofiber reinforced poly(hydroxybutyrateâ€coâ€hydroxyvalerate) biocomposites. Journal of Applied Polymer Science, 2017, 134, .	1.3	18
128	A statistical approach to develop biocomposites from epoxy resin, poly(furfuryl alcohol), poly(propylene carbonate), and biochar. Journal of Applied Polymer Science, 2017, 134, 45307.	1.3	22
129	Sustainable Biocomposites from Pyrolyzed Grass and Toughened Polypropylene: Structureâ€"Property Relationships. ACS Omega, 2017, 2, 2191-2199.	1.6	33
130	Biocomposite consisting of miscanthus fiber and biodegradable binary blend matrix: compatibilization and performance evaluation. RSC Advances, 2017, 7, 27538-27548.	1.7	52
131	Compatibilization of toughened polypropylene/biocarbon biocomposites: A full factorial design optimization of mechanical properties. Polymer Testing, 2017, 61, 364-372.	2.3	29
132	Sustainable biocarbon from pyrolyzed perennial grasses and their effects on impact modified polypropylene biocomposites. Composites Part B: Engineering, 2017, 118, 116-124.	5.9	89
133	Impact of interfacial adhesion on the microstructure and property variations of biocarbons reinforced nylon 6 biocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 98, 32-44.	3.8	77
134	Green design of nanoporous materials and carbonaceous foams from polyfurfuryl alcohol and epoxidized linseed oil. Materials Letters, 2017, 196, 238-241.	1.3	2
135	Accelerated hydrothermal aging of biocarbon reinforced nylon biocomposites. Polymer Degradation and Stability, 2017, 139, 76-88.	2.7	46
136	Miscibility and Performance Evaluation of Biocomposites Made from Polypropylene/Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 Omega, 2017, 2, 6446-6454.	1.6	40
137	Green Approaches To Engineer Tough Biobased Epoxies: A Review. ACS Sustainable Chemistry and Engineering, 2017, 5, 9528-9541.	3.2	100
138	Novel biocomposites from biobased PC/PLA blend matrix system for durable applications. Composites Part B: Engineering, 2017, 130, 158-166.	5.9	37
139	Biodegradable biocomposites from poly(butylene adipateâ€coâ€terephthalate) and miscanthus: Preparation, compatibilization, and performance evaluation. Journal of Applied Polymer Science, 2017, 134, 45448.	1.3	42
140	Sustainable biobased blends of poly(lactic acid) (PLA) and poly(glycerol succinate-co-maleate) (PGSMA) with balanced performance prepared by dynamic vulcanization. RSC Advances, 2017, 7, 38594-38603.	1.7	33
141	Statistical optimization of compatibilized blends of poly(lactic acid) and acrylonitrile butadiene styrene. Journal of Applied Polymer Science, 2017, 134, .	1.3	26
142	Biodegradable and Bio-based Green Blends from Carbon Dioxide-Derived Bioplastic and Poly(Butylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.4	18
143	A study of mechanical properties of biobased epoxy network: Effect of addition of epoxidized soybean oil and poly(furfuryl alcohol). Journal of Applied Polymer Science, 2017, 134, .	1.3	14
144	Carbon nanotubes from renewable feedstocks: A move toward sustainable nanofabrication. Journal of Applied Polymer Science, 2017, 134, .	1.3	47

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145	Synthesis of Shape Memory Poly(glycerol sebacate)-Stearate Polymer. Macromolecular Materials and Engineering, 2017, 302, 1600294.	1.7	13
146	Sustainable biocomposites from biobased polyamide 6,10 and biocarbon from pyrolyzed miscanthus fibers. Journal of Applied Polymer Science, 2017, 134, .	1.3	69
147	Biobased blends of poly(propylene carbonate) and poly(hydroxybutyrateâ€coâ€hydroxyvalerate): Fabrication and characterization. Journal of Applied Polymer Science, 2017, 134, .	1.3	27
148	Examination of a Biobased Carbon Nucleating Agent on Poly(lactic acid) Crystallization. Journal of Renewable Materials, 2017, 5, 94-105.	1.1	12
149	Characterization of Carbonized Electrospun Lignin Fibers. Plastics Engineering, 2016, 72, 38-41.	0.1	0
150	Alkali and Peroxide Bleach Treatments on Spring Harvested Switchgrass for Potential Composite Application. BioResources, 2016, 11, .	0.5	8
151	Characterization of Wastes and Coproducts from the Coffee Industry for Composite Material Production. BioResources, 2016, 11, .	0.5	83
152	Synthesis of Glycerol-Based Biopolyesters as Toughness Enhancers for Polylactic Acid Bioplastic through Reactive Extrusion. ACS Omega, 2016, 1, 1284-1295.	1.6	51
153	Perspective on Polylactic Acid (PLA) based Sustainable Materials for Durable Applications: Focus on Toughness and Heat Resistance. ACS Sustainable Chemistry and Engineering, 2016, 4, 2899-2916.	3.2	633
154	Leaf extract mediated biogenic process for the decoration of graphene with silver nanoparticles. Materials Letters, 2016, 178, 115-119.	1.3	16
155	Statistical analysis of the effects of carbonization parameters on the structure of carbonized electrospun organosolv lignin fibers. Journal of Applied Polymer Science, 2016, 133, .	1.3	19
156	A New Approach to Supertough Poly(lactic acid): A High Temperature Reactive Blending. Macromolecular Materials and Engineering, 2016, 301, 1443-1453.	1.7	31
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