

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

319 papers	14,134 citations	60 h-index	104 g-index
332 ext. papers	16,517 ext. citations	4.9 avg, IF	7.25 L-index

#	Paper	IF	Citations
3 <sup>19</sup>	Biobased plastics and bionanocomposites: Current status and future opportunities. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1653-1689	29.6	722
3 <sup>18</sup>	Effect of fiber surface-treatments on the properties of laminated biocomposites from poly(lactic acid) (PLA) and kenaf fibers. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 424-432	8.6	522
3 <sup>17</sup>	Perspective on Polylactic Acid (PLA) based Sustainable Materials for Durable Applications: Focus on Toughness and Heat Resistance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2899-2916	8.3	446
3 <sup>16</sup>	Composites from renewable and sustainable resources: Challenges and innovations. <i>Science</i> , <b>2018</b> , 362, 536-542	33.3	377
3 <sup>15</sup>	Chopped glass and recycled newspaper as reinforcement fibers in injection molded poly(lactic acid) (PLA) composites: A comparative study. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 1813-1824	8.6	368
3 <sup>14</sup>	A Review on Pineapple Leaf Fibers, Sisal Fibers and Their Biocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2004</b> , 289, 955-974	3.9	272
3 <sup>13</sup>	Recent Advances in the Application of Natural Fiber Based Composites. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 975-989	3.9	265
3 <sup>12</sup>	Green composites from soy based plastic and pineapple leaf fiber: fabrication and properties evaluation. <i>Polymer</i> , <b>2005</b> , 46, 2710-2721	3.9	257
3 <sup>11</sup>	Electrospun cellulose acetate nanofibers: the present status and gamut of biotechnological applications. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 421-37	17.8	224
3 <sup>10</sup>	"Green" nanocomposites from cellulose acetate bioplastic and clay: effect of eco-friendly triethyl citrate plasticizer. <i>Biomacromolecules</i> , <b>2004</b> , 5, 2281-8	6.9	219
3 <sup>09</sup>	A Study on Biocomposites from Recycled Newspaper Fiber and Poly(lactic acid). <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 5593-5601	3.9	208
3 <sup>08</sup>	Review of recent advances in the biodegradability of polyhydroxyalkanoate (PHA) bioplastics and their composites. <i>Green Chemistry</i> , <b>2020</b> , 22, 5519-5558	10	188
3 <sup>07</sup>	Supertoughened renewable PLA reactive multiphase blends system: phase morphology and performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12436-48	9.5	165
3 <sup>06</sup>	Poly lactide-based renewable green composites from agricultural residues and their hybrids. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1654-60	6.9	164
3 <sup>05</sup>	Enhanced properties of lignin-based biodegradable polymer composites using injection moulding process. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 1710-1718	8.4	160
3 <sup>04</sup>	Surface characterization of natural fibers; surface properties and the water up-take behavior of modified sisal and coir fibers. <i>Green Chemistry</i> , <b>2001</b> , 3, 100-107	10	145
3 <sup>03</sup>	Effect of Compatibilizer on Nanostructure of the Biodegradable Cellulose Acetate/Organoclay Nanocomposites. <i>Macromolecules</i> , <b>2004</b> , 37, 9076-9082	5.5	144

302	Influence of processing methods and fiber length on physical properties of kenaf fiber reinforced soy based biocomposites. <i>Composites Part B: Engineering</i> , <b>2007</b> , 38, 352-359	10	142
301	Fracture toughness and impact strength of anhydride-cured biobased epoxy. <i>Polymer Engineering and Science</i> , <b>2005</b> , 45, 487-495	2.3	142
300	Biodegradable compatibilized polymer blends for packaging applications: A literature review. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45726	2.9	139
299	Soybean (&#x2014;Glycine Max&#x2014;) Leaf Extract Based Green Synthesis of Palladium Nanoparticles. <i>Journal of Biomaterials and Nanobiotechnology</i> , <b>2012</b> , 03, 14-19	1	138
298	Effect of chemical modifications of the pineapple leaf fiber surfaces on the interfacial and mechanical properties of laminated biocomposites. <i>Composite Interfaces</i> , <b>2008</b> , 15, 169-191	2.3	136
297	Hybrid bio-based composites from blends of unsaturated polyester and soybean oil reinforced with nanoclay and natural fibers. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 3344-3351	8.6	136
296	Overcoming the Fundamental Challenges in Improving the Impact Strength and Crystallinity of PLA Biocomposites: Influence of Nucleating Agent and Mold Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11203-14	9.5	128
295	Mechanical properties of carbon nanotubes and their polymer nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1593-615	1.3	124
294	Biosynthesis of silver nanoparticles using murraya koenigii (curry leaf): An investigation on the effect of broth concentration in reduction mechanism and particle size. <i>Advanced Materials Letters</i> , <b>2011</b> , 2, 429-434	2.4	124
293	Influence of fiber surface treatment on properties of Indian grass fiber reinforced soy protein based biocomposites. <i>Polymer</i> , <b>2004</b> , 45, 7589-7596	3.9	122
292	Study of the Curing Kinetics of Epoxy Resins with Biobased Hardener and Epoxidized Soybean Oil. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2111-2116	8.3	119
291	Effect of fiber surface treatment on the properties of biocomposites from nonwoven industrial hemp fiber mats and unsaturated polyester resin. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 99, 1055-1068	2.9	117
290	Sustainable Green Composites: Value Addition to Agricultural Residues and Perennial Grasses. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 325-333	8.3	106
289	Thermo-Physical and Impact Properties of Epoxy Containing Epoxidized Linseed Oil, 1. <i>Macromolecular Materials and Engineering</i> , <b>2004</b> , 289, 629-635	3.9	101
288	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). <i>ACS Omega</i> , <b>2018</b> , 3, 4400-4411	3.9	100
287	Natural Fibers, Biopolymers, and Biocomposites <b>2005</b> ,		100
286	Mechanical behaviour of agro-residue reinforced poly(3-hydroxybutyrate-co-3-hydroxyvalerate), (PHBV) green composites: A comparison with traditional polypropylene composites. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 653-657	8.6	97
285	Preparation and Characterization of Cross-Linked Starch/Poly(vinyl alcohol) Green Films with Low Moisture Absorption. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2176-2185	3.9	94

284	Effect of Maleated Compatibilizer on Performance of PLA/Wheat Straw-Based Green Composites. <i>Macromolecular Materials and Engineering</i> , <b>2011</b> , 296, 710-718	3.9	93
283	A Study of Carbonized Lignin as an Alternative to Carbon Black. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1257-1263	8.3	89
282	The Effects of Process Engineering on the Performance of PLA and PHBV Blends. <i>Macromolecular Materials and Engineering</i> , <b>2011</b> , 296, 719-728	3.9	87
281	A New Biodegradable Flexible Composite Sheet from Poly(lactic acid)/Poly(E-caprolactone) Blends and Micro-Talc. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 750-762	3.9	83
280	Thermo-Physical and Impact Properties of Epoxy Containing Epoxidized Linseed Oil, 2. <i>Macromolecular Materials and Engineering</i> , <b>2004</b> , 289, 636-641	3.9	80
279	Challenges and new opportunities on barrier performance of biodegradable polymers for sustainable packaging. <i>Progress in Polymer Science</i> , <b>2021</b> , 117, 101395	29.6	79
278	Renewable resource based 3D green composites from kenaf biofiber and poly(furfuryl alcohol) bioresin. <i>Industrial Crops and Products</i> , <b>2013</b> , 41, 94-101	5.9	77
277	New engineered biocomposites from poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV)/poly(butylene adipate-co-terephthalate) (PBAT) blends and switchgrass: Fabrication and performance evaluation. <i>Industrial Crops and Products</i> , <b>2013</b> , 42, 461-468	5.9	77
276	Novel biobased nanocomposites from functionalized vegetable oil and organically-modified layered silicate clay. <i>Polymer</i> , <b>2005</b> , 46, 445-453	3.9	76
275	Biodegradable Poly(butylene succinate) and Poly(butylene adipate-co-terephthalate) Blends: Reactive Extrusion and Performance Evaluation. <i>Journal of Polymers and the Environment</i> , <b>2014</b> , 22, 336-349	4.5	72
274	Influence of Plasticizers on Thermal and Mechanical Properties and Morphology of Soy-Based Bioplastics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 7491-7496	3.9	72
273	Green Approaches To Engineer Tough Biobased Epoxies: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 9528-9541	8.3	71
272	Green Composites from Residual Microalgae Biomass and Poly(butylene adipate-co-terephthalate): Processing and Plasticization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 614-624	8.3	70
271	A study of the mechanical, thermal and morphological properties of microcrystalline cellulose particles prepared from cotton slivers using different acid concentrations. <i>Cellulose</i> , <b>2009</b> , 16, 783-793	5.5	70
270	Biobased epoxy/clay nanocomposites as a new matrix for CFRP. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 54-62	8.4	70
269	Compostability and biodegradation study of PLA-wheat straw and PLA-soy straw based green composites in simulated composting bioreactor. <i>Bioresource Technology</i> , <b>2010</b> , 101, 8489-91	11	68
268	Hydrolytic degradation of biodegradable polyesters under simulated environmental conditions. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	66
267	Improved utilization of crude glycerol from biodiesel industries: Synthesis and characterization of sustainable biobased polyesters. <i>Industrial Crops and Products</i> , <b>2015</b> , 78, 141-147	5.9	66

266	Sustainable biocarbon from pyrolyzed perennial grasses and their effects on impact modified polypropylene biocomposites. <i>Composites Part B: Engineering</i> , <b>2017</b> , 118, 116-124	10	65
265	Novel biobased resins from blends of functionalized soybean oil and unsaturated polyester resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 698-704	2.6	63
264	Injection Molded Sustainable Biocomposites From Poly(butylene succinate) Bioplastic and Perennial Grass. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2767-2776	8.3	62
263	Biocomposites with Size-Fractionated Biocarbon: Influence of the Microstructure on Macroscopic Properties. <i>ACS Omega</i> , <b>2016</b> , 1, 636-647	3.9	62
262	Physico-mechanical properties of the jute micro/nanofibril reinforced starch/polyvinyl alcohol biocomposite films. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 376-381	10	62
261	Effect of compatibilizer and fillers on the properties of injection molded lignin-based hybrid green composites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 4110-4121	2.9	61
260	Load-bearing natural fiber composite cellular beams and panels. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2004</b> , 35, 645-656	8.4	61
259	Sustainable Cellular Biocomposites from Natural Fibers and Unsaturated Polyester Resin for Housing Panel Applications. <i>Journal of Polymers and the Environment</i> , <b>2005</b> , 13, 139-149	4.5	60
258	Crystalline morphology of PLA/clay nanocomposite films and its correlation with other properties. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, 143-151	2.9	59
257	Biodegradable nanocomposites from cellulose acetate: Mechanical, morphological, and thermal properties. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 1428-1433	8.4	59
256	Impact of interfacial adhesion on the microstructure and property variations of biocarbons reinforced nylon 6 biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 98, 32-44	8.4	56
255	Iodine Treatment of Lignin Cellulose Acetate Electrospun Fibers: Enhancement of Green Fiber Carbonization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 33-41	8.3	56
254	Studies on durability of sustainable biobased composites: a review.. <i>RSC Advances</i> , <b>2020</b> , 10, 17955-17999	9.7	56
253	Switchgrass (<i>Panicum virgatum</i>) Extract Mediated Green Synthesis of Silver Nanoparticles. <i>World Journal of Nano Science and Engineering</i> , <b>2012</b> , 02, 47-52	0	56
252	Fabrication of conductive Lignin/PAN carbon nanofibers with enhanced graphene for the modified electrodes. <i>Carbon</i> , <b>2019</b> , 147, 262-275	10.4	55
251	Thermo-mechanical characterization of bioblends from polylactide and poly(butylene adipate-co-terephthalate) and lignin. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 299-311	3.9	55
250	Biodegradable green composites from bioethanol co-product and poly(butylene adipate-co-terephthalate). <i>Industrial Crops and Products</i> , <b>2013</b> , 43, 812-819	5.9	54
249	Injection Molded Glass Fiber Reinforced Poly(trimethylene terephthalate) Composites: Fabrication and Properties Evaluation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 857-862	3.9	54

248	Characterization of Wastes and Coproducts from the Coffee Industry for Composite Material Production. <i>BioResources</i> , <b>2016</b> , 11,	1.3	54
247	Thermal, Mechanical and Rheological Behavior of Poly(lactic acid)/Talc Composites. <i>Journal of Polymers and the Environment</i> , <b>2012</b> , 20, 1027-1037	4.5	52
246	Influence of processing parameters on the impact strength of biocomposites: A statistical approach. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 83, 120-129	8.4	51
245	Green Process for Impregnation of Silver Nanoparticles into Microcrystalline Cellulose and Their Antimicrobial Bionanocomposite Films. <i>Journal of Biomaterials and Nanobiotechnology</i> , <b>2012</b> , 03, 371-376 <sup>1</sup>		51
244	A Study of the Mechanical and Fracture Behavior of Jute-Fabric-Reinforced Clay-Modified Thermoplastic Starch-Matrix Composites. <i>Macromolecular Materials and Engineering</i> , <b>2007</b> , 292, 1075-1084 <sup>2</sup>	3.9	51
243	Chopped Industrial Hemp Fiber Reinforced Cellulosic Plastic Biocomposites: Thermomechanical and Morphological Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 4883-4888	3.9	51
242	Self-assembled aliphatic chain extended polyurethane nanobiohybrids: emerging hemocompatible biomaterials for sustained drug delivery. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2133-46	10.8	50
241	Toughened Sustainable Green Composites from Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Based Ternary Blends and Miscanthus Biofiber. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2345-2354 <sup>3</sup>	8.3	50
240	Analysis of Porous Electrospun Fibers from Poly(l-lactic acid)/Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Blends. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1976-1982	8.3	50
239	Biobased Ternary Blends of Lignin, Poly(Lactic Acid), and Poly(Butylene Adipate-co-Terephthalate): The Effect of Lignin Heterogeneity on Blend Morphology and Compatibility. <i>Journal of Polymers and the Environment</i> , <b>2014</b> , 22, 439-448	4.5	50
238	Electrospinning of aqueous lignin/poly(ethylene oxide) complexes. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	49
237	Biological synthesis of silver nanoparticles using Glycine max (soybean) leaf extract: an investigation on different soybean varieties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6828-33 <sup>3</sup>	1.3	49
236	Effect of Sequential Mixing and Compounding Conditions on Cellulose Acetate/Layered Silicate Nanocomposites. <i>Journal of Polymers and the Environment</i> , <b>2006</b> , 14, 27-35	4.5	47
235	Effect of Clay and Alumina-Nanowhisker Reinforcements on the Mechanical Properties of Nanocomposites from Biobased Epoxy: A Comparative Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 7001-7009	3.9	47
234	Novel Biocomposites Sheet Molding Compounds for Low Cost Housing Panel Applications. <i>Journal of Polymers and the Environment</i> , <b>2005</b> , 13, 169-175	4.5	47
233	Green polyurethane nanocomposites from soy polyol and bacterial cellulose. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 2167-2175	4.3	46
232	Hybrid biofiber-based composites for structural cellular plates. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2005</b> , 36, 581-593	8.4	46
231	Maple leaf ( <i>Acer</i> sp.) extract mediated green process for the functionalization of ZnO powders with silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 113, 169-75	6	45



230	Sustainable biocomposites from biobased polyamide 6,10 and biocarbon from pyrolyzed miscanthus fibers. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	45
229	Studies on recyclability of polyhydroxybutyrate-co-valerate bioplastic: Multiple melt processing and performance evaluations. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E324-E331	2.9	45
228	CNT Induced EPhase in Polylactide: Unique Crystallization, Biodegradation, and Biocompatibility. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10163-10174	3.8	45
227	Thermally Stable Pyrolytic Biocarbon as an Effective and Sustainable Reinforcing Filler for Polyamide Bio-composites Fabrication. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 3574-3589	4.5	44
226	Physicomechanical and Thermal Properties of Jute-Nanofiber-Reinforced Biocopolyester Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2775-2782	3.9	44
225	Bio-poly(butylene succinate) and Its Composites with Grape Pomace: Mechanical Performance and Thermal Properties. <i>ACS Omega</i> , <b>2018</b> , 3, 15205-15216	3.9	44
224	Oxidative acid treatment and characterization of new biocarbon from sustainable Miscanthus biomass. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 241-247	10.2	42
223	Poly(glycerol-co-diacids) Polyesters: From Glycerol Biorefinery to Sustainable Engineering Applications, A Review. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5681-5693	8.3	41
222	Processability and Biodegradability Evaluation of Composites from Poly(butylene succinate) (PBS) Bioplastic and Biofuel Co-products from Ontario. <i>Journal of Polymers and the Environment</i> , <b>2014</b> , 22, 209-218	4.5	41
221	Bio-based unsaturated polyester/layered silicate nanocomposites: Characterization and thermo-physical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 540-547	8.4	41
220	Graphitization of Miscanthus grass biocarbon enhanced by in situ generated FeCo nanoparticles. <i>Green Chemistry</i> , <b>2018</b> , 20, 2269-2278	10	40
219	Biocomposite consisting of miscanthus fiber and biodegradable binary blend matrix: compatibilization and performance evaluation. <i>RSC Advances</i> , <b>2017</b> , 7, 27538-27548	3.7	39
218	Development of Biobased Unsaturated Polyester Containing Functionalized Linseed Oil. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 1014-1018	3.9	39
217	Preparation of an Electric Double Layer Capacitor (EDLC) Using Miscanthus-Derived Biocarbon. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 318-324	8.3	39
216	Novel Biocomposites from Native Grass and Soy Based Bioplastic: Processing and Properties Evaluation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 7105-7112	3.9	38
215	Processing techniques for bio-based unsaturated-polyester/clay nanocomposites: Tensile properties, efficiency, and limits. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 394-403	8.4	37
214	Synthesis of Glycerol-Based Biopolyesters as Toughness Enhancers for Polylactic Acid Bioplastic through Reactive Extrusion. <i>ACS Omega</i> , <b>2016</b> , 1, 1284-1295	3.9	36
213	Sustainable biocarbon reinforced nylon 6/polypropylene compatibilized blends: Effect of particle size and morphology on performance of the biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 112, 1-10	8.4	36

212	Accelerated hydrothermal aging of biocarbon reinforced nylon biocomposites. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 139, 76-88	4.7	35
211	Novel materials from unsaturated polyester resin/styrene/tung oil blends with high impact strengths and enhanced mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 2174-2182	2.9	35
210	Characterization of biocarbon generated by high- and low-temperature pyrolysis of soy hulls and coffee chaff: for polymer composite applications. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 171970	3.3	35
209	Mechanical, Chemical, and Physical Properties of Wood and Perennial Grass Biochars for Possible Composite Application. <i>BioResources</i> , <b>2015</b> , 11,	1.3	34
208	Bio-based polymer nanocomposites from UPE/EML blends and nanoclay: Development, experimental characterization and limits to synergistic performance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 41-49	8.4	34
207	Novel compatibilized nylon-based ternary blends with polypropylene and poly(lactic acid): morphology evolution and rheological behaviour.. <i>RSC Advances</i> , <b>2018</b> , 8, 15709-15724	3.7	33
206	Electrospun green fibres from lignin and chitosan: a novel polycomplexation process for the production of lignin-based fibres. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 7949-7958	4.3	32
205	Fermented Soymeals and Their Reactive Blends with Poly(butylene adipate-co-terephthalate) in Engineering Biodegradable Cast Films for Sustainable Packaging. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 782-793	8.3	31
204	Carbonized Lignin as Sustainable Filler in Biobased Poly(trimethylene terephthalate) Polymer for Injection Molding Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 102-110	8.3	31
203	Biobased Epoxy/Layered Silicate Nanocomposites: Thermophysical Properties and Fracture Behavior Evaluation. <i>Journal of Polymers and the Environment</i> , <b>2005</b> , 13, 87-96	4.5	31
202	Biodegradable Composites Developed from PBAT/PLA Binary Blends and Silk Powder: Compatibilization and Performance Evaluation. <i>ACS Omega</i> , <b>2018</b> , 3, 12412-12421	3.9	31
201	Influence of epoxidized natural rubber on the phase structure and toughening behavior of biocarbon reinforced nylon 6 biocomposites. <i>RSC Advances</i> , <b>2017</b> , 7, 8727-8739	3.7	30
200	Reactive extrusion of sustainable PHBV/PBAT-based nanocomposite films with organically modified nanoclay for packaging applications: Compression moulding vs. cast film extrusion. <i>Composites Part B: Engineering</i> , <b>2020</b> , 198, 108141	10	30
199	Novel Biodegradable Cast Film from Carbon Dioxide Based Copolymer and Poly(Lactic Acid). <i>Journal of Polymers and the Environment</i> , <b>2016</b> , 24, 23-36	4.5	30
198	Novel biocomposites from biobased PC/PLA blend matrix system for durable applications. <i>Composites Part B: Engineering</i> , <b>2017</b> , 130, 158-166	10	30
197	Preparation and Properties of Vinylester Resin/Clay Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 1513-1520	3.9	29
196	Polycarbonate biocomposites reinforced with a hybrid filler system of recycled carbon fiber and biocarbon: Preparation and thermomechanical characterization. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46449	2.9	28
195	Biocomposites From Switchgrass and Lignin Hybrid and Poly(butylene succinate) Bioplastic: Studies on Reactive Compatibilization and Performance Evaluation. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 178-189	3.9	28



194	Biodegradable Green Composites from Distiller's Dried Grains with Solubles (DDGS) and a Polyhydroxy(butyrate-co-valerate) (PHBV)-Based Bioplastic. <i>Macromolecular Materials and Engineering</i> , <b>2011</b> , 296, 1035-1045	3.9	28
193	Sustainable Biocomposites from Pyrolyzed Grass and Toughened Polypropylene: Structure-Property Relationships. <i>ACS Omega</i> , <b>2017</b> , 2, 2191-2199	3.9	27
192	Miscibility and Performance Evaluation of Biocomposites Made from Polypropylene/Poly(lactic acid)/Poly(hydroxybutyrate--hydroxyvalerate) with a Sustainable Biocarbon Filler. <i>ACS Omega</i> , <b>2017</b> , 2, 6446-6454	3.9	27
191	Novel Compatibilized Nylon-Based Ternary Blends with Polypropylene and Poly(lactic acid): Fractionated Crystallization Phenomena and Mechanical Performance. <i>ACS Omega</i> , <b>2018</b> , 3, 2845-2854	3.9	27
190	Microwave Synthesis and Melt Blending of Glycerol Based Toughening Agent with Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2142-2149	8.3	27
189	Biodegradable biocomposites from poly(butylene adipate-co-terephthalate) and miscanthus: Preparation, compatibilization, and performance evaluation. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45448	2.9	27
188	Electrospinning highly oriented and crystalline poly(lactic acid) fiber mats. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 2430-2441	4.3	27
187	Diameter-tuning of electrospun cellulose acetate fibers: a Box-Behnken design (BBD) study. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 1100-6	10.3	27
186	Fundamental studies on water-washing of the corn ethanol coproduct (DDGS) and its characterization for biocomposite applications. <i>Biomass and Bioenergy</i> , <b>2013</b> , 55, 251-259	5.3	27
185	Tuned biodegradation using poly(hydroxybutyrate-co-valerate) nanobiohybrids: Emerging biomaterials for tissue engineering and drug delivery. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15919		27
184	Fruit waste valorization for biodegradable biocomposite applications: A review. <i>BioResources</i> , <b>2019</b> , 14, 10047-10092	1.3	27
183	Studies on the dimensional stability and mechanical properties of nanobiocomposites from polyamide 6-filled with biocarbon and nanoclay hybrid systems. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2020</b> , 129, 105695	8.4	27
182	Slow pyrolysis of bio-oil and studies on chemical and physical properties of the resulting new bio-carbon. <i>Journal of Cleaner Production</i> , <b>2018</b> , 172, 2748-2758	10.3	27
181	Sustainable composites from poly(3-hydroxybutyrate) (PHB) bioplastic and agave natural fibre. <i>Green Chemistry</i> , <b>2020</b> , 22, 3906-3916	10	26
180	Biocarbon from peanut hulls and their green composites with biobased poly(trimethylene terephthalate) (PTT). <i>Scientific Reports</i> , <b>2020</b> , 10, 3310	4.9	26
179	Statistical design of sustainable thermoplastic blends of poly(glycerol succinate-co-maleate) (PGSMA), poly(lactic acid) (PLA) and poly(butylene succinate) (PBS). <i>Polymer Testing</i> , <b>2018</b> , 65, 420-428	4.5	26
178	Sustainable biobased blends of poly(lactic acid) (PLA) and poly(glycerol succinate-co-maleate) (PGSMA) with balanced performance prepared by dynamic vulcanization. <i>RSC Advances</i> , <b>2017</b> , 7, 38594-38603	3.7	26
177	Carbon nanotubes from renewable feedstocks: A move toward sustainable nanofabrication. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	26

176	Biodegradable Blends From Plasticized Soy Meal, Polycaprolactone, and Poly(butylene succinate). <i>Macromolecular Materials and Engineering</i> , <b>2012</b> , 297, 455-463	3.9	26
175	Static and Dynamic Mechanical Properties of Vinylester Resin Matrix Composites Filled with Fly Ash. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 784-792	3.9	26
174	Comparative study of the extrinsic properties of poly(lactic acid)-based biocomposites filled with talc sustainable biocarbon.. <i>RSC Advances</i> , <b>2019</b> , 9, 6752-6761	3.7	25
173	Characterization and Application in Biocomposites of Residual Microalgal Biomass Generated in Third Generation Biodiesel. <i>Journal of Polymers and the Environment</i> , <b>2013</b> , 21, 944-951	4.5	25
172	Hierarchical cellular designs for load-bearing biocomposite beams and plates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 390, 178-187	5.3	25
171	Development of Toughened Blends of Poly(lactic acid) and Poly(butylene adipate-co-terephthalate) for 3D Printing Applications: Compatibilization Methods and Material Performance Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6576-6589	8.3	25
170	Biobased Poly(ethylene terephthalate)/Poly(lactic acid) Blends Tailored with Epoxide Compatibilizers. <i>ACS Omega</i> , <b>2018</b> , 3, 11759-11769	3.9	25
169	Injection molded biocomposites from polypropylene and lignin: Effect of compatibilizers on interfacial adhesion and performance. <i>Industrial Crops and Products</i> , <b>2019</b> , 132, 497-510	5.9	23
168	Blends of polylactic acid with thermoplastic copolyester elastomer: Effect of functionalized terpolymer type on reactive toughening. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 280-290	2.3	23
167	Novel super-toughened bio-based blend from polycarbonate and poly(lactic acid) for durable applications. <i>RSC Advances</i> , <b>2016</b> , 6, 105094-105104	3.7	23
166	A Study On The Electrospinning Behaviour And Nanofibre Morphology Of Anionically Charged Lignin. <i>Advanced Materials Letters</i> , <b>2012</b> , 3, 476-480	2.4	23
165	Crystallization of poly(3-hydroxybutyrate) by exfoliated graphite nanoplatelets. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 2548-2558	2.9	23
164	A Solvent Free Graft Copolymerization of Maleic Anhydride onto Cellulose Acetate Butyrate Bioplastic by Reactive Extrusion. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 90-95	3.9	23
163	grass-derived carbon dots to selectively detect Fe ions.. <i>RSC Advances</i> , <b>2019</b> , 9, 8628-8637	3.7	22
162	Crystallization behavior and morphology of polylactic acid (PLA) with aromatic sulfonate derivative. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	22
161	Improving the interfacial adhesion in a new renewable resource-based biocomposites from biofuel coproduct and biodegradable plastic. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 6025-6038	4.3	22
160	Development of Recycled Polypropylene Matrix Composites Reinforced with Fly Ash. <i>Journal of Reinforced Plastics and Composites</i> , <b>2010</b> , 29, 510-517	2.9	22
159	Modification of Soy Protein Plastic with Functional Monomer with Reactive Extrusion. <i>Journal of Polymers and the Environment</i> , <b>2008</b> , 16, 177-182	4.5	22

158	Thermoplastics from Soy Protein: A Review on Processing, Blends and Composites. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2010</b> , 4, 298-316	1.4	22
157	Compatibilization of toughened polypropylene/biocarbon biocomposites: A full factorial design optimization of mechanical properties. <i>Polymer Testing</i> , <b>2017</b> , 61, 364-372	4.5	21
156	Super Toughened Poly(lactic acid)-Based Ternary Blends via Enhancing Interfacial Compatibility. <i>ACS Omega</i> , <b>2019</b> , 4, 1955-1968	3.9	21
155	Sustainable biobased blends from the reactive extrusion of polylactide and acrylonitrile butadiene styrene. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	21
154	Toughening of brittle poly(lactide) with hyperbranched poly(ester-amide) and isocyanate-terminated prepolymer of polybutadiene. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5158-5168	4.3	21
153	Performance Evaluation of Biofibers and Their Hybrids as Reinforcements in Bioplastic Composites. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 779-788	3.9	21
152	A Study of Dynamic Mechanical and Thermal Behavior of Starch/Poly(vinylalcohol) Based Films. <i>Journal of Polymers and the Environment</i> , <b>2009</b> , 17, 49-55	4.5	21
151	Effect of Accelerated Weathering on Biocomposites Processed by SMC and Compression Molding. <i>Journal of Polymers and the Environment</i> , <b>2006</b> , 14, 359-368	4.5	21
150	Physicochemical analysis of apple and grape pomaces. <i>BioResources</i> , <b>2019</b> , 14, 3210-3230	1.3	21
149	Sustainable Biocomposites from Poly(butylene succinate) and Apple Pomace: A Study on Compatibilization Performance. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 3775-3787	3.2	21
148	Thermal and Mechanical Properties of the Biocomposites of Biocarbon and Poly(3-ydroxybutyrate--3-ydroxyvalerate) (PHBV). <i>Polymers</i> , <b>2020</b> , 12,	4.5	20
147	Hybrid biocomposites from polypropylene, sustainable biocarbon and graphene nanoplatelets. <i>Scientific Reports</i> , <b>2020</b> , 10, 10714	4.9	20
146	Reactive compatibilization of poly trimethylene terephthalate (PTT) and polylactic acid (PLA) using terpolymer: Factorial design optimization of mechanical properties. <i>Materials and Design</i> , <b>2016</b> , 110, 581-591	8.1	20
145	Optimization of tensile properties thermoplastic blends from soy and biodegradable polyesters: Taguchi design of experiments approach. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 2591-2599	4.3	20
144	Statistical optimization of compatibilized blends of poly(lactic acid) and acrylonitrile butadiene styrene. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	20
143	Biobased blends of poly(propylene carbonate) and poly(hydroxybutyrate-co-hydroxyvalerate): Fabrication and characterization. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	20
142	Comparative compostability and biodegradation studies of various components of green composites and their blends in simulated aerobic composting bioreactor. <i>International Journal of Plastics Technology</i> , <b>2010</b> , 14, 45-50	2.7	20
141	Thermal and electrical behavior of vinylester resin matrix composites filled with fly ash particles. <i>Polymer Composites</i> , <b>2008</b> , 29, 58-62	3	20

140	Characterization and thermophysical properties of unsaturated polyester-layered silicate nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 464-71	1.3	20
139	A New Approach to Supertough Poly(lactic acid): A High Temperature Reactive Blending. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 1443-1453	3.9	20
138	Experimental Design of Sustainable 3D-Printed Poly(Lactic Acid)/Biobased Poly(Butylene Succinate) Blends via Fused Deposition Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14460-14470	8.3	19
137	Extraction of Lignin from a Coproduct of the Cellulosic Ethanol Industry and Its Thermal Characterization. <i>BioResources</i> , <b>2013</b> , 8,	1.3	19
136	Characterization of Chicken Feather Biocarbon for Use in Sustainable Biocomposites. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	19
135	A statistical approach to develop biocomposites from epoxy resin, poly(furfuryl alcohol), poly(propylene carbonate), and biochar. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45307	2.9	18
134	Mechanical Performance of Soy-Hull-Reinforced Bioplastic Green Composites: A Comparison with Polypropylene Composites. <i>Macromolecular Materials and Engineering</i> , <b>2012</b> , 297, 184-194	3.9	18
133	Enhanced conductivity and electrical relaxation studies of carbon-coated LiMnPO <sub>4</sub> nanorods. <i>Ionics</i> , <b>2013</b> , 19, 461-469	2.7	18
132	Tuning the compatibility to achieve toughened biobased poly(lactic acid)/poly(butylene terephthalate) blends.. <i>RSC Advances</i> , <b>2018</b> , 8, 27709-27724	3.7	17
131	Injection Molded Novel Biocomposites from Polypropylene and Sustainable Biocarbon. <i>Molecules</i> , <b>2019</b> , 24,	4.8	17
130	Nanochannel conduction in piezoelectric polymeric membrane using swift heavy ions and nanoclay. <i>RSC Advances</i> , <b>2013</b> , 3, 6147	3.7	17
129	Tailoring the toughness of sustainable polymer blends from biodegradable plastics via morphology transition observed by atomic force microscopy. <i>Polymer Degradation and Stability</i> , <b>2020</b> , 173, 109066	4.7	17
128	Sustainable green composites from biodegradable plastics blend and natural fibre with balanced performance: Synergy of nano-structured blend and reactive extrusion. <i>Composites Science and Technology</i> , <b>2020</b> , 200, 108369	8.6	17
127	Electrospinning Process and Structure Relationship of Biobased Poly(butylene succinate) for Nanoporous Fibers. <i>ACS Omega</i> , <b>2018</b> , 3, 5547-5557	3.9	17
126	Sustainable Hydrophobic and Moisture-Resistant Coating Derived from Downstream Corn Oil. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8766-8774	8.3	16
125	Biodegradable Blends from Corn Gluten Meal and Poly(butylene adipate-co-terephthalate) (PBAT): Studies on the Influence of Plasticization and Destructurization on Rheology, Tensile Properties and Interfacial Interactions. <i>Journal of Polymers and the Environment</i> , <b>2014</b> , 22, 167-175	4.5	16
124	Renewable-Resource-Based Green Blends from Poly(furfuryl alcohol) Bioresin and Lignin. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 552-559	3.9	16
123	Processing and physical properties of native grass-reinforced biocomposites. <i>Polymer Engineering and Science</i> , <b>2007</b> , 47, 969-976	2.3	15

122	Comparison in composite performance after thermooxidative aging of injection molded polyamide 6 with glass fiber, talc, and a sustainable biocarbon filler. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48618	2.9	15
121	Recent advances in additive manufacturing of engineering thermoplastics: challenges and opportunities.. <i>RSC Advances</i> , <b>2020</b> , 10, 36058-36089	3.7	15
120	Strategy To Improve Printability of Renewable Resource-Based Engineering Plastic Tailored for FDM Applications. <i>ACS Omega</i> , <b>2019</b> , 4, 20297-20307	3.9	15
119	Exploring the Effect of Poly(propylene carbonate) Polyol in a Biobased Epoxy Interpenetrating Network. <i>ACS Omega</i> , <b>2017</b> , 2, 611-617	3.9	14
118	Sustainable Carbonaceous Biofiller from Miscanthus: Size Reduction, Characterization, and Potential Bio-composites Applications. <i>BioResources</i> , <b>2018</b> , 13,	1.3	14
117	Novel sustainable biobased flame retardant from functionalized vegetable oil for enhanced flame retardancy of engineering plastic. <i>Scientific Reports</i> , <b>2019</b> , 9, 15971	4.9	14
116	Mechanical properties of compatibilized nylon 6/polypropylene blends; studies of the interfacial behavior through an emulsion model. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	14
115	Microscopic, structural, and electrical characterization of the carbonaceous materials synthesized from various lignin feedstocks. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	14
114	Injection-moulded biocomposites from polylactic acid (PLA) and recycled carbon fibre: Evaluation of mechanical and thermal properties. <i>Journal of Thermoplastic Composite Materials</i> , <b>2014</b> , 27, 1286-1300	1.9	14
113	A Preliminary Study on Antimicrobial Edible Films from Pectin and Other Food Hydrocolloids by Extrusion Method. <i>Journal of Natural Fibers</i> , <b>2008</b> , 5, 366-382	1.8	14
112	Ocean plastics: environmental implications and potential routes for mitigation - a perspective.. <i>RSC Advances</i> , <b>2021</b> , 11, 21447-21462	3.7	14
111	Sustainable biocarbon as an alternative of traditional fillers for poly(butylene terephthalate)-based composites: Thermo-oxidative aging and durability. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47722	2.9	13
110	Underutilized Agricultural Co-Product as a Sustainable Biofiller for Polyamide 6,6: Effect of Carbonization Temperature. <i>Molecules</i> , <b>2020</b> , 25,	4.8	13
109	A comparative study of polymethylmethacrylate/cellulose nanocomposites prepared by in situ polymerization and ex situ dispersion techniques. <i>Journal of Reinforced Plastics and Composites</i> , <b>2013</b> , 32, 147-159	2.9	13
108	Preparation and characterization of nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> deposited on SiO <sub>2</sub> : in situ sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , <b>2011</b> , 58, 24-32	2.3	13
107	A Study of Physicomechanical and Morphological Properties of Starch/Poly(vinylalcohol) Based Films. <i>Journal of Polymers and the Environment</i> , <b>2009</b> , 17, 56-63	4.5	13
106	Rheological, Thermal, and Morphological Characteristics of Plasticized Cellulose Acetate Composite with Natural Fibers. <i>Macromolecular Symposia</i> , <b>2005</b> , 224, 297-308	0.8	13
105	Novel Glycine Max (Soybean) Leaf Extract Based Biological Process for the Functionalization of Carbon Nanotubes with Silver Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , <b>2010</b> , 2, 240-243	0.8	13



104	Leaf extract mediated biogenic process for the decoration of graphene with silver nanoparticles. <i>Materials Letters</i> , <b>2016</b> , 178, 115-119	3.3	13
103	Statistical analysis of the effects of carbonization parameters on the structure of carbonized electrospun organosolv lignin fibers. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	13
102	Impact of Butyl Glycidyl Ether Comonomer on Poly(glycerol succinate) Architecture and Dynamics for Multifunctional Hyperbranched Polymer Design. <i>Macromolecules</i> , <b>2017</b> , 50, 732-745	5.5	12
101	Reactive compatibilization and performance evaluation of miscanthus biofiber reinforced poly(hydroxybutyrate-co-hydroxyvalerate) biocomposites. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	12
100	Biodegradable and Bio-based Green Blends from Carbon Dioxide-Derived Bioplastic and Poly(Butylene Succinate). <i>Journal of Polymers and the Environment</i> , <b>2017</b> , 25, 499-509	4.5	12
99	Studies of Cu(II)D4-initiated graft copolymerization of methyl methacrylate from defatted pineapple leaf fibres. <i>Polymer International</i> , <b>1999</b> , 48, 868-872	3.3	12
98	Injection Moulded Biocomposites from Oat Hull and Polypropylene/Poly(lactide) Blend: Fabrication and Performance Evaluation. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 761840	1.2	12
97	Novel tunable super-tough materials from biodegradable polymer blends: nano-structuring through reactive extrusion.. <i>RSC Advances</i> , <b>2019</b> , 9, 2836-2847	3.7	11
96	Examination of a Biobased Carbon Nucleating Agent on Poly(lactic acid) Crystallization. <i>Journal of Renewable Materials</i> , <b>2017</b> , 5, 94-105	2.4	11
95	In Situ Cellulose Nanocrystal-Reinforced Glycerol-Based Biopolyester for Enhancing Poly(lactic acid) Biocomposites. <i>ACS Omega</i> , <b>2018</b> , 3, 3857-3867	3.9	11
94	Synthesis of Shape Memory Poly(glycerol sebacate)-Stearate Polymer. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1600294	3.9	11
93	Epoxidized pine oil-siloxane: Crosslinking kinetic study and thermomechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	11
92	Co-Injection Molded New Green Composites from Biodegradable Polyesters and Miscanthus Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 436-446	3.9	11
91	Life Cycle Assessment of renewable filler material (biochar) produced from perennial grass (Miscanthus). <i>AIMS Energy</i> , <b>2019</b> , 7, 430-440	1.8	11
90	Long-term performance of nucleated toughened polypropylene-biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 105, 274-280	8.4	11
89	Evaluation of the life cycle of an automotive component produced from biocomposite. <i>Journal of Cleaner Production</i> , <b>2020</b> , 273, 123051	10.3	11
88	Study on the 3D printability of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/poly(lactic acid) blends with chain extender using fused filament fabrication. <i>Scientific Reports</i> , <b>2020</b> , 10, 11804	4.9	11
87	Synergistic thermo-oxidative maleation of PA11 as compatibilization strategy for PA6 and PBT blend. <i>Polymer</i> , <b>2019</b> , 179, 121594	3.9	10



86	Melt Processing and Characterization of Bionanocomposites Made from Poly(butylene succinate) Bioplastic and Carbon Black. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 118-126	3.9	10
85	Hydrolytic stability of polycarbonate/poly(lactic acid) blends and its evaluation via poly(lactic) acid median melting point depression. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 134, 227-236	4.7	10
84	Environmental and economic prospects of biomaterials in the automotive industry. <i>Clean Technologies and Environmental Policy</i> , <b>2019</b> , 21, 1535-1548	4.3	10
83	Thermal, mechanical, and morphological investigation of injection molded poly(trimethylene terephthalate)/carbon fiber composites. <i>Polymer Composites</i> , <b>2012</b> , 33, 1933-1940	3	10
82	Physico-Mechanical and Morphological Study of Starch/Polyvinylalcohol Based Biocomposite Films Reinforced with Microcrystalline Cellulose. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2009</b> , 3, 100-107 <sup>1.4</sup>		10
81	Durable Polylactic Acid (PLA)-Based Sustainable Engineered Blends and Biocomposites: Recent Developments, Challenges, and Opportunities. <i>ACS Engineering Au</i> , <b>2021</b> , 1, 7-38		10
80	Development of hybrid composites reinforced with biocarbon/carbon fiber system. The comparative study for PC, ABS and PC/ABS based materials. <i>Composites Part B: Engineering</i> , <b>2020</b> , 200, 108319	10	10
79	Super-tough sustainable biobased composites from polylactide bioplastic and lignin for bio-elastomer application. <i>Polymer</i> , <b>2021</b> , 212, 123153	3.9	10
78	The effect of natural fillers on the marine biodegradation behaviour of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV). <i>Scientific Reports</i> , <b>2021</b> , 11, 911	4.9	10
77	Study of the effect of processing conditions on the co-injection of PBS/PBAT and PTT/PBT blends for parts with increased bio-content. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	9
76	Mechanical optimization of virgin and recycled poly(ethylene terephthalate) biocomposites with sustainable biocarbon through a factorial design. <i>Results in Materials</i> , <b>2020</b> , 5, 100060	2.3	9
75	Study of compostable behavior of jute nano fiber reinforced biocopolyester composites in aerobic compost environment. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 2952-2958	2.9	9
74	Comparison of conventional and regenerative electrostatic energy harvesters. <i>IET Circuits, Devices and Systems</i> , <b>2017</b> , 11, 638-647	1.1	9
73	A comparative life-cycle assessment of talc- and biochar-reinforced composites for lightweight automotive parts. <i>Clean Technologies and Environmental Policy</i> , <b>2020</b> , 22, 639-649	4.3	9
72	Hybrid Green Bionanocomposites of Bio-based Poly(butylene succinate) Reinforced with Pyrolyzed Perennial Grass Microparticles and Graphene Nanoplatelets. <i>ACS Omega</i> , <b>2019</b> , 4, 20476-20485	3.9	9
71	Progress in research and applications of Polyphenylene Sulfide blends and composites with carbons. <i>Composites Part B: Engineering</i> , <b>2021</b> , 209, 108553	10	9
70	Injection-Molded Bioblends from Lignin and Biodegradable Polymers: Processing and Performance Evaluation. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 2360-2373	4.5	9
69	Impacts of COVID-19 Outbreak on the Municipal Solid Waste Management: Now and beyond the Pandemic. <i>ACS Environmental Au</i> ,		9

68	Sustainable PHBV/Cellulose Acetate Blends: Effect of a Chain Extender and a Plasticizer. <i>ACS Omega</i> , <b>2020</b> , 5, 14221-14231	3.9	8
67	Toughening of Biodegradable Poly(3-hydroxybutyrate-3-hydroxyvalerate)/Poly(ε-caprolactone) Blends by In Situ Reactive Compatibilization. <i>ACS Omega</i> , <b>2020</b> , 5, 14900-14910	3.9	8
66	Effect of Compatibilization on Biobased Rubber-Toughened Poly(trimethylene terephthalate): Miscibility, Morphology, and Mechanical Properties. <i>ACS Omega</i> , <b>2018</b> , 3, 7300-7309	3.9	8
65	A statistical approach to engineer a biocomposite formulation from biofuel coproduct with balanced properties. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131,	2.9	8
64	A study of mechanical properties of biobased epoxy network: Effect of addition of epoxidized soybean oil and poly(furfuryl alcohol). <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	8
63	Hybrid Bio-Based Composites from UPE/EML Blends, Natural Fibers, and Nanoclay. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 1306-1315	3.9	8
62	Model and prototype of a green electrostatic harvester of vibration energy <b>2014</b> ,		8
61	Effect of Co-Rotation and Counter-Rotation Extrusion Processing on the Thermal and Mechanical Properties, and Morphology of Plasticized Soy Protein Isolate and Poly(butylene succinate) Blends. <i>Macromolecular Materials and Engineering</i> , <b>2011</b> , 296, 788-801	3.9	8
60	Biocomposites from biobased polyamide 4,10 and waste corn cob based biocarbon. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 145, 106340	8.4	8
59	Statistical design of sustainable composites from poly(lactic acid) and grape pomace. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49061	2.9	7
58	Studies on why the heat deflection temperature of polylactide bioplastic cannot be improved by overcrosslinking. <i>Polymer Crystallization</i> , <b>2019</b> , 2, e10088	0.9	7
57	The effect of particle size on the rheological properties of polyamide 6/biochar composites <b>2015</b> ,		7
56	Synthesis and characterization of novel nitrogen doped biocarbons from distillers dried grains with solubles (DDGS) for supercapacitor applications. <i>Bioresource Technology Reports</i> , <b>2020</b> , 9, 100375	4.1	7
55	Insights on the structure-performance relationship of polyphthalamide (PPA) composites reinforced with high-temperature produced biocarbon.. <i>RSC Advances</i> , <b>2020</b> , 10, 26917-26927	3.7	7
54	Processing, Carbonization, and Characterization of Lignin Based Electrospun Carbon Fibers: A Review. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	7
53	A Review on Current Status of Biochar Uses in Agriculture. <i>Molecules</i> , <b>2021</b> , 26,	4.8	7
52	A comprehensive review of renewable and sustainable biosourced carbon through pyrolysis in biocomposites uses: Current development and future opportunity. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111666	16.2	7
51	Novel Biocomposites from Biobased Epoxy and Corn-Based Distillers Dried Grains (DDG). <i>Journal of Polymers and the Environment</i> , <b>2015</b> , 23, 425-436	4.5	6

50	Experimental Investigation on Machinability of Polypropylene Reinforced with Miscanthus Fibers and Biochar. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
49	Surface Modification of Flax Fibers for Manufacture of Engineering Thermoplastic Biocomposites. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 64	3	6
48	Improvement of Impact Toughness of Biodegradable Poly(butylene succinate) by Melt Blending with Sustainable Biobased Glycerol Elastomers. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 1078-1087	4.5	6
47	Novel biocomposites from poly(trimethylene terephthalate) and recycled carbon fibres. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 6056-6065	4.3	6
46	Renewable resources-based PTT [poly(trimethylene terephthalate)]/switchgrass fiber composites: The effect of compatibilization. <i>Pure and Applied Chemistry</i> , <b>2012</b> , 85, 521-532	2.1	6
45	Additive manufacturing technology of polymeric materials for customized products: recent developments and future prospective.. <i>RSC Advances</i> , <b>2021</b> , 11, 36398-36438	3.7	6
44	Green Toughness Modifier from Downstream Corn Oil in Improving Poly(lactic acid) Performance. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 3396-3406	4.3	5
43	Morphology and performance relationship studies on biodegradable ternary blends of poly(3-hydroxybutyrate--3-hydroxyvalerate), polylactic acid, and polypropylene carbonate.. <i>RSC Advances</i> , <b>2020</b> , 10, 44624-44632	3.7	5
42	Zein-Based Materials: Effect of Nanocarbon Inclusion and Potential Applications. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 637-646	4.5	5
41	Plywood adhesives derived from distillers' dried grains with solubles (DDGS) incorporating 2-hydroxyethyl acrylate. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45689	2.9	4
40	The use of nanotechnology for fibre-reinforced polymer composites <b>2017</b> , 277-297		4
39	Binary blends of poly(butylene adipate-co-terephthalate) and poly(butylene succinate): A new matrix for biocomposites applications <b>2015</b> ,		4
38	Regenerative electrostatic energy harvester with improved output power range <b>2013</b> ,		4
37	A New Class of Injection Moulded Structural Biocomposites from PHBV Bioplastic and Carbon Fibre. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 789-795	3.9	4
36	Sustainable biocomposites from Nylon 6 and polypropylene blends and biocarbon <b>2020</b> , 129, 105680	8.4	4
35	Effect of jute fibers on morphological characteristics and properties of thermoplastic starch/biodegradable polyester blend. <i>Cellulose</i> , <b>2021</b> , 28, 5513	5.5	4
34	Pyrolyzed biomass from corn ethanol industry coproduct and their polypropylene-based composites: Effect of heat treatment temperature on performance of the biocomposites. <i>Composites Part B: Engineering</i> , <b>2021</b> , 215, 108714	10	4
33	Impact of renewable carbon on the properties of composites made by using three types of polymers having different polarity. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49948	2.9	4

32	Extrusion Based 3D Printing of Sustainable Biocomposites from Biocarbon and Poly(trimethylene terephthalate). <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
31	Formulation optimization of bioreinforced composites from polyolefins and dried distillers grains using statistical methods. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 119, 246-260	8.4	3
30	Rheological Monitoring of Chemical Gelation of Biodegradable Poly(butylene succinate): Importance of Peroxide Concentration and Temperature in Reactive Extrusion. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 1604-1612	4.3	3
29	Effect of maleated polypropylene emulsion on the mechanical and thermal properties of lignin-polypropylene blends <b>2015</b> ,		3
28	Studies on the Reaction of Acrylonitrile Butadiene Styrene to Melt Processing Conditions. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 750-757	3.9	3
27	Biological Treatment of Soy Straw: Physicochemical Characterization. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2009</b> , 3, 373-379	1.4	3
26	Sustainable 3D Printed Composites from Recycled Ocean Plastics and Pyrolyzed Soy-Hulls: Optimization of Printing Parameters, Performance Studies and Prototypes Development. <i>Composites Part C: Open Access</i> , <b>2021</b> , 100197	1.6	3
25	Novel puffball ( <i>Lycoperdon</i> Sp.) spores derived hierarchical nanostructured Biocarbon: A preliminary investigation on thermochemical conversion and characterization for supercapacitor applications. <i>Materials Letters</i> , <b>2021</b> , 291, 129432	3.3	3
24	Electrostatic energy harvester based on multiple variable capacitors <b>2016</b> ,		3
23	Sustainable Biocomposites from Recycled Bale Wrap Plastic and Agave Fiber: Processing and Property Evaluation. <i>ACS Omega</i> , <b>2021</b> , 6, 2856-2864	3.9	3
22	Novel sustainable materials from waste plastics: compatibilized blend from discarded bale wrap and plastic bottles.. <i>RSC Advances</i> , <b>2021</b> , 11, 8594-8605	3.7	3
21	Stereodynamic insight into the thermal history effects on poly(vinyl chloride) calorimetric sub-glass and glass transitions as a fragile glass model. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16333-16346 <sup>3.6</sup>		2
20	A Low Forward Bias Active Diode Circuit for Electrostatic Energy Harvesters <b>2018</b> ,		2
19	Green design of nanoporous materials and carbonaceous foams from polyfurfuryl alcohol and epoxidized linseed oil. <i>Materials Letters</i> , <b>2017</b> , 196, 238-241	3.3	1
18	Cross-Linkable Liquid-Crystalline Biopolyesteramide as a Multifunctional Polymeric Platform Designed from Corn Oil Side-Stream Product of Bioethanol Industry. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1900093	4.8	1
17	Understanding the morphology formation and properties of polyamide 6 and bio-based poly(trimethylene terephthalate) blends. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 2210-2218	2.3	1
16	An in-depth analysis of the physico-mechanical properties imparted by agricultural fibers and food processing residues in polypropylene biocomposites <b>2015</b> ,		1
15	Biocomposites from co-polypropylene and distillers grains <b>2015</b> ,		1

14	Multistage electrostatic energy harvester without startup battery <b>2014</b> ,		1
13	Studies on curing kinetics of polyphenylene sulfide: An insight into effects of curing temperature and time on structure and thermo-mechanical behavior. <i>Journal of Applied Polymer Science</i> , 51817	2.9	1
12	Evaluating the Performance of a Semiaromatic/Aliphatic Polyamide Blend: The Case for Polyphthalamide (PPA) and Polyamide 4,10 (PA410). <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
11	Advanced Electrospun Nanofibers of Layered Silicate Nanocomposites: A Review of Processing, Properties, and Applications <b>2014</b> , 361-388		1
10	Effect of a Small Amount of Synthetic Fiber on Performance of Biocarbon-Filled Nylon-Based Hybrid Biocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2000680	3.9	1
9	Studies on 3D Printability of Novel Impact Modified Nylon 6: Experimental Investigations and Performance Evaluation. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2000548	3.9	1
8	Impact of temperature and in situ FeCo catalysis on the architecture and Young's modulus of model wood-based biocarbon. <i>Green Chemistry</i> , <b>2021</b> , 23, 3015-3027	10	1
7	Biocomposites from Thermoplastic Postindustrial Waste Starches Filled with Mineral Fillers for Single-Use Flexible Packaging. <i>Macromolecular Materials and Engineering</i> , 2100960	3.9	1
6	Value-Added Bio-carbon Production through the Slow Pyrolysis of Waste Bio-oil: Fundamental Studies on Their Structure-Property-Processing Co-relation.. <i>ACS Omega</i> , <b>2022</b> , 7, 1612-1627	3.9	0
5	Microplastics in the ecosystems: Their implications and mitigation pathway		0
4	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. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 154, 106759	8.4	0
3	Injection Moldable Hybrid Sustainable Composites of PBS and PHBV Reinforced with Talc and Starch as Potential Alternatives to Single-Use Plastic Packaging. <i>Composites Part C: Open Access</i> , <b>2021</b> , 100201	1.6	0
2	Green Composites from a Bioplastic Blend of Poly(3-hydroxybutyrate--3-hydroxyvalerate) and Carbon Dioxide-Derived Poly(propylene carbonate) and Filled with a Corn Ethanol-Industry Co-product. <i>ACS Omega</i> , <b>2021</b> , 6, 20103-20111	3.9	0
1	Characterization of Carbonized Electrospun Lignin Fibers. <i>Plastics Engineering</i> , <b>2016</b> , 72, 38-41	0.8	