

Amar Kumar Mohanty

List of Publications by Year in Descending Order

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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.

332
papers

15,265
citations

63
h-index

109
g-index

346
ext. papers

17,695
ext. citations

4.8
avg, IF

7.3
L-index

#	Paper	IF	Citations
332	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> , 2022 , 7, 1612-1627	3.9	0
331	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> , 2022 , 154, 106759	8.4	0
330	Additive manufacturing technology of polymeric materials for customized products: recent developments and future prospective.. <i>RSC Advances</i> , 2021 , 11, 36398-36438	3.7	6
329	Evaluating the Performance of a Semiaromatic/Aliphatic Polyamide Blend: The Case for Polyphthalamide (PPA) and Polyamide 4,10 (PA410). <i>Polymers</i> , 2021 , 13,	4.5	1
328	Durable Polylactic Acid (PLA)-Based Sustainable Engineered Blends and Biocomposites: Recent Developments, Challenges, and Opportunities. <i>ACS Engineering Au</i> , 2021 , 1, 7-38		10
327	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> , 2021 , 100197	1.6	3
326	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> , 2021 , 100201	1.6	0
325	Effect of a Small Amount of Synthetic Fiber on Performance of Biocarbon-Filled Nylon-Based Hybrid Biocomposites. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000680	3.9	1
324	Effect of jute fibers on morphological characteristics and properties of thermoplastic starch/biodegradable polyester blend. <i>Cellulose</i> , 2021 , 28, 5513	5.5	4
323	Novel puffball (<i>Lycoperdon Sp.</i>) spores derived hierarchical nanostructured Biocarbon: A preliminary investigation on thermochemical conversion and characterization for supercapacitor applications. <i>Materials Letters</i> , 2021 , 291, 129432	3.3	3
322	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> , 2021 , 215, 108714	10	4
321	Challenges and new opportunities on barrier performance of biodegradable polymers for sustainable packaging. <i>Progress in Polymer Science</i> , 2021 , 117, 101395	29.6	79
320	Biocomposites from biobased polyamide 4,10 and waste corn cob based biocarbon. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 145, 106340	8.4	8
319	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> , 2021 , 138, 49948	2.9	4
318	Studies on 3D Printability of Novel Impact Modified Nylon 6: Experimental Investigations and Performance Evaluation. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000548	3.9	1
317	Path-dependent rheology of carbon particle-hydroxyethylcellulose fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 612, 126000	5.1	1
316	Progress in research and applications of Polyphenylene Sulfide blends and composites with carbons. <i>Composites Part B: Engineering</i> , 2021 , 209, 108553	10	9

315	Super-tough sustainable biobased composites from polylactide bioplastic and lignin for bio-elastomer application. <i>Polymer</i> , 2021 , 212, 123153	3.9	10
314	The effect of natural fillers on the marine biodegradation behaviour of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV). <i>Scientific Reports</i> , 2021 , 11, 911	4.9	10
313	Ocean plastics: environmental implications and potential routes for mitigation - a perspective.. <i>RSC Advances</i> , 2021 , 11, 21447-21462	3.7	14
312	Sustainable Biocomposites from Recycled Bale Wrap Plastic and Agave Fiber: Processing and Property Evaluation. <i>ACS Omega</i> , 2021 , 6, 2856-2864	3.9	3
311	Novel sustainable materials from waste plastics: compatibilized blend from discarded bale wrap and plastic bottles.. <i>RSC Advances</i> , 2021 , 11, 8594-8605	3.7	3
310	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> , 2021 , 6, 20103-20111	3.9	0
309	Extrusion Based 3D Printing of Sustainable Biocomposites from Biocarbon and Poly(trimethylene terephthalate). <i>Molecules</i> , 2021 , 26,	4.8	4
308	Evolution of drinking straws and their environmental, economic and societal implications. <i>Journal of Cleaner Production</i> , 2021 , 316, 128234	10.3	5
307	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> , 2021 , 152, 111666	16.2	7
306	Impact of temperature and in situ FeCo catalysis on the architecture and Young's modulus of model wood-based biocarbon. <i>Green Chemistry</i> , 2021 , 23, 3015-3027	10	1
305	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> , 2020 , 198, 108141	10	30
304	Sustainable composites from poly(3-hydroxybutyrate) (PHB) bioplastic and agave natural fibre. <i>Green Chemistry</i> , 2020 , 22, 3906-3916	10	26
303	Studies on durability of sustainable biobased composites: a review.. <i>RSC Advances</i> , 2020 , 10, 17955-17999	3.7	56
302	Sustainable PHBV/Cellulose Acetate Blends: Effect of a Chain Extender and a Plasticizer. <i>ACS Omega</i> , 2020 , 5, 14221-14231	3.9	8
301	Toughening of Biodegradable Poly(3-hydroxybutyrate--3-hydroxyvalerate)/Poly(E-caprolactone) Blends by In Situ Reactive Compatibilization. <i>ACS Omega</i> , 2020 , 5, 14900-14910	3.9	8
300	Statistical design of sustainable composites from poly(lactic acid) and grape pomace. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49061	2.9	7
299	Mechanical optimization of virgin and recycled poly(ethylene terephthalate) biocomposites with sustainable biocarbon through a factorial design. <i>Results in Materials</i> , 2020 , 5, 100060	2.3	9
298	Experimental Investigation on Machinability of Polypropylene Reinforced with Miscanthus Fibers and Biochar. <i>Materials</i> , 2020 , 13,	3.5	6

297	Surface Modification of Flax Fibers for Manufacture of Engineering Thermoplastic Biocomposites. <i>Journal of Composites Science</i> , 2020 , 4, 64	3	6
296	Thermal and Mechanical Properties of the Biocomposites of Biocarbon and Poly(3-ydroxybutyrate--3-ydroxyvalerate) (PHBV). <i>Polymers</i> , 2020 , 12,	4.5	20
295	Hybrid biocomposites from polypropylene, sustainable biocarbon and graphene nanoplatelets. <i>Scientific Reports</i> , 2020 , 10, 10714	4.9	20
294	Biocarbon from peanut hulls and their green composites with biobased poly(trimethylene terephthalate) (PTT). <i>Scientific Reports</i> , 2020 , 10, 3310	4.9	26
293	Underutilized Agricultural Co-Product as a Sustainable Biofiller for Polyamide 6,6: Effect of Carbonization Temperature. <i>Molecules</i> , 2020 , 25,	4.8	13
292	Characterization of Chicken Feather Biocarbon for Use in Sustainable Biocomposites. <i>Frontiers in Materials</i> , 2020 , 7,	4	19
291	Sustainable biocomposites from Nylon 6 and polypropylene blends and biocarbon [Studies on tailored morphologies and complex composite structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 129, 105680	8.4	4
290	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> , 2020 , 137, 48618	2.9	15
289	A comparative life-cycle assessment of talc- and biochar-reinforced composites for lightweight automotive parts. <i>Clean Technologies and Environmental Policy</i> , 2020 , 22, 639-649	4.3	9
288	Synthesis and characterization of novel nitrogen doped biocarbons from distillers dried grains with solubles (DDGS) for supercapacitor applications. <i>Bioresource Technology Reports</i> , 2020 , 9, 100375	4.1	7
287	Tailoring the toughness of sustainable polymer blends from biodegradable plastics via morphology transition observed by atomic force microscopy. <i>Polymer Degradation and Stability</i> , 2020 , 173, 109066	4.7	17
286	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> , 2020 , 8, 6576-6589	8.3	25
285	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> , 2020 , 129, 105695	8.4	27
284	Recent advances in additive manufacturing of engineering thermoplastics: challenges and opportunities.. <i>RSC Advances</i> , 2020 , 10, 36058-36089	3.7	15
283	Evaluation of the life cycle of an automotive component produced from biocomposite. <i>Journal of Cleaner Production</i> , 2020 , 273, 123051	10.3	11
282	Insights on the structure-performance relationship of polyphthalamide (PPA) composites reinforced with high-temperature produced biocarbon.. <i>RSC Advances</i> , 2020 , 10, 26917-26927	3.7	7
281	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> , 2020 , 10, 11804	4.9	11
280	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> , 2020 , 200, 108369	8.6	17

279	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> , 2020 , 200, 108319	10	10
278	Processing, Carbonization, and Characterization of Lignin Based Electrospun Carbon Fibers: A Review. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	7
277	Review of recent advances in the biodegradability of polyhydroxyalkanoate (PHA) bioplastics and their composites. <i>Green Chemistry</i> , 2020 , 22, 5519-5558	10	188
276	Morphology and performance relationship studies on biodegradable ternary blends of poly(3-hydroxybutyrate-3-hydroxyvalerate), polylactic acid, and polypropylene carbonate.. <i>RSC Advances</i> , 2020 , 10, 44624-44632	3.7	5
275	Sustainable Biocomposites from Poly(butylene succinate) and Apple Pomace: A Study on Compatibilization Performance. <i>Waste and Biomass Valorization</i> , 2020 , 11, 3775-3787	3.2	21
274	Novel tunable super-tough materials from biodegradable polymer blends: nano-structuring through reactive extrusion.. <i>RSC Advances</i> , 2019 , 9, 2836-2847	3.7	11
273	Super Toughened Poly(lactic acid)-Based Ternary Blends via Enhancing Interfacial Compatibility. <i>ACS Omega</i> , 2019 , 4, 1955-1968	3.9	21
272	Formulation optimization of bioreinforced composites from polyolefins and dried distillers grains using statistical methods. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 119, 246-260	8.4	3
271	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> , 2019 , 1, 1604-1612	4.3	3
270	Synergistic thermo-oxidative maleation of PA11 as compatibilization strategy for PA6 and PBT blend. <i>Polymer</i> , 2019 , 179, 121594	3.9	10
269	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> , 2019 , 40, e1900093	4.8	1
268	grass-derived carbon dots to selectively detect Fe ions.. <i>RSC Advances</i> , 2019 , 9, 8628-8637	3.7	22
267	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> , 2019 , 136, 47722-2.9	2.9	13
266	Injection molded biocomposites from polypropylene and lignin: Effect of compatibilizers on interfacial adhesion and performance. <i>Industrial Crops and Products</i> , 2019 , 132, 497-510	5.9	23
265	Comparative study of the extrinsic properties of poly(lactic acid)-based biocomposites filled with talc sustainable biocarbon.. <i>RSC Advances</i> , 2019 , 9, 6752-6761	3.7	25
264	Sustainable Hydrophobic and Moisture-Resistant Coating Derived from Downstream Corn Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8766-8774	8.3	16
263	Fabrication of conductive Lignin/PAN carbon nanofibers with enhanced graphene for the modified electrodes. <i>Carbon</i> , 2019 , 147, 262-275	10.4	55
262	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> , 2019 , 7, 14460-14470	8.3	19

261	Environmental and economic prospects of biomaterials in the automotive industry. <i>Clean Technologies and Environmental Policy</i> , 2019 , 21, 1535-1548	4.3	10
260	Tecoma stans flower extract assisted biogenic synthesis of functional Ag-Talc nanostructures for antimicrobial applications. <i>Bioresource Technology Reports</i> , 2019 , 7, 100298	4.1	7
259	Studies on why the heat deflection temperature of polylactide bioplastic cannot be improved by overcrosslinking. <i>Polymer Crystallization</i> , 2019 , 2, e10088	0.9	7
258	Injection Molded Novel Biocomposites from Polypropylene and Sustainable Biocarbon. <i>Molecules</i> , 2019 , 24,	4.8	17
257	Novel sustainable biobased flame retardant from functionalized vegetable oil for enhanced flame retardancy of engineering plastic. <i>Scientific Reports</i> , 2019 , 9, 15971	4.9	14
256	Green Toughness Modifier from Downstream Corn Oil in Improving Poly(lactic acid) Performance. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 3396-3406	4.3	5
255	Physicochemical analysis of apple and grape pomaces. <i>BioResources</i> , 2019 , 14, 3210-3230	1.3	21
254	Fruit waste valorization for biodegradable biocomposite applications: A review. <i>BioResources</i> , 2019 , 14, 10047-10092	1.3	27
253	Life Cycle Assessment of renewable filler material (biochar) produced from perennial grass (<i>Miscanthus</i>). <i>AIMS Energy</i> , 2019 , 7, 430-440	1.8	11
252	Strategy To Improve Printability of Renewable Resource-Based Engineering Plastic Tailored for FDM Applications. <i>ACS Omega</i> , 2019 , 4, 20297-20307	3.9	15
251	Hybrid Green Bionanocomposites of Bio-based Poly(butylene succinate) Reinforced with Pyrolyzed Perennial Grass Microparticles and Graphene Nanoplatelets. <i>ACS Omega</i> , 2019 , 4, 20476-20485	3.9	9
250	Physicochemical Characterization and Evaluation of Pecan Nutshell as Biofiller in a Matrix of Poly(lactic acid). <i>Journal of Polymers and the Environment</i> , 2019 , 27, 521-532	4.5	10
249	Novel Compatibilized Nylon-Based Ternary Blends with Polypropylene and Poly(lactic acid): Fractionated Crystallization Phenomena and Mechanical Performance. <i>ACS Omega</i> , 2018 , 3, 2845-2854	3.9	27
248	Understanding the morphology formation and properties of polyamide 6 and bio-based poly(trimethylene terephthalate) blends. <i>Polymer Engineering and Science</i> , 2018 , 58, 2210-2218	2.3	1
247	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> , 2018 , 3, 4400-4411	3.9	100
246	Graphitization of <i>Miscanthus</i> grass biocarbon enhanced by in situ generated FeCo nanoparticles. <i>Green Chemistry</i> , 2018 , 20, 2269-2278	10	40
245	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> , 2018 , 135, 46449	2.9	28
244	In Situ Cellulose Nanocrystal-Reinforced Glycerol-Based Biopolyester for Enhancing Poly(lactic acid) Biocomposites. <i>ACS Omega</i> , 2018 , 3, 3857-3867	3.9	11

243	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> , 2018 , 20, 16333-16346	3.6	2
242	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> , 2018 , 65, 420-428	4.5	26
241	Novel compatibilized nylon-based ternary blends with polypropylene and poly(lactic acid): morphology evolution and rheological behaviour.. <i>RSC Advances</i> , 2018 , 8, 15709-15724	3.7	33
240	Thermally Stable Pyrolytic Biocarbon as an Effective and Sustainable Reinforcing Filler for Polyamide Bio-composites Fabrication. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 3574-3589	4.5	44
239	Poly(glycerol-co-diacids) Polyesters: From Glycerol Biorefinery to Sustainable Engineering Applications, A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5681-5693	8.3	41
238	Recent advances and emerging opportunities in phytochemical synthesis of ZnO nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2018 , 80, 143-161	4.3	60
237	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> , 2018 , 26, 1078-1087	4.5	6
236	Blends of polylactic acid with thermoplastic copolyester elastomer: Effect of functionalized terpolymer type on reactive toughening. <i>Polymer Engineering and Science</i> , 2018 , 58, 280-290	2.3	23
235	Biodegradable compatibilized polymer blends for packaging applications: A literature review. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45726	2.9	139
234	Plywood adhesives derived from distillers' dried grains with solubles (DDGS) incorporating 2-hydroxyethyl acrylate. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45689	2.9	4
233	Tuning the compatibility to achieve toughened biobased poly(lactic acid)/poly(butylene terephthalate) blends.. <i>RSC Advances</i> , 2018 , 8, 27709-27724	3.7	17
232	Effect of Compatibilization on Biobased Rubber-Toughened Poly(trimethylene terephthalate): Miscibility, Morphology, and Mechanical Properties. <i>ACS Omega</i> , 2018 , 3, 7300-7309	3.9	8
231	Sustainable Carbonaceous Biofiller from Miscanthus: Size Reduction, Characterization, and Potential Bio-composites Applications. <i>BioResources</i> , 2018 , 13,	1.3	14
230	Long-term performance of Ehnucleated toughened polypropylene-biocarbon composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 105, 274-280	8.4	11
229	Slow pyrolysis of bio-oil and studies on chemical and physical properties of the resulting new bio-carbon. <i>Journal of Cleaner Production</i> , 2018 , 172, 2748-2758	10.3	27
228	Preparation of an Electric Double Layer Capacitor (EDLC) Using Miscanthus-Derived Biocarbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 318-324	8.3	39
227	Injection-Molded Bioblends from Lignin and Biodegradable Polymers: Processing and Performance Evaluation. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 2360-2373	4.5	9
226	Bio-poly(butylene succinate) and Its Composites with Grape Pomace: Mechanical Performance and Thermal Properties. <i>ACS Omega</i> , 2018 , 3, 15205-15216	3.9	44

225	Biodegradable Composites Developed from PBAT/PLA Binary Blends and Silk Powder: Compatibilization and Performance Evaluation. <i>ACS Omega</i> , 2018 , 3, 12412-12421	3.9	31
224	Biobased Poly(ethylene terephthalate)/Poly(lactic acid) Blends Tailored with Epoxide Compatibilizers. <i>ACS Omega</i> , 2018 , 3, 11759-11769	3.9	25
223	Composites from renewable and sustainable resources: Challenges and innovations. <i>Science</i> , 2018 , 362, 536-542	33.3	377
222	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> , 2018 , 5, 171970	3.3	35
221	Electrospinning Process and Structure Relationship of Biobased Poly(butylene succinate) for Nanoporous Fibers. <i>ACS Omega</i> , 2018 , 3, 5547-5557	3.9	17
220	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> , 2018 , 112, 1-10	8.4	36
219	Impact of Butyl Glycidyl Ether Comonomer on Poly(glycerol succinate) Architecture and Dynamics for Multifunctional Hyperbranched Polymer Design. <i>Macromolecules</i> , 2017 , 50, 732-745	5.5	12
218	Influence of epoxidized natural rubber on the phase structure and toughening behavior of biocarbon reinforced nylon 6 biocomposites. <i>RSC Advances</i> , 2017 , 7, 8727-8739	3.7	30
217	Exploring the Effect of Poly(propylene carbonate) Polyol in a Biobased Epoxy Interpenetrating Network. <i>ACS Omega</i> , 2017 , 2, 611-617	3.9	14
216	Reactive compatibilization and performance evaluation of miscanthus biofiber reinforced poly(hydroxybutyrate-co-hydroxyvalerate) biocomposites. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	12
215	A statistical approach to develop biocomposites from epoxy resin, poly(furfuryl alcohol), poly(propylene carbonate), and biochar. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45307	2.9	18
214	Sustainable Biocomposites from Pyrolyzed Grass and Toughened Polypropylene: Structure-Property Relationships. <i>ACS Omega</i> , 2017 , 2, 2191-2199	3.9	27
213	Biocomposite consisting of miscanthus fiber and biodegradable binary blend matrix: compatibilization and performance evaluation. <i>RSC Advances</i> , 2017 , 7, 27538-27548	3.7	39
212	Compatibilization of toughened polypropylene/biocarbon biocomposites: A full factorial design optimization of mechanical properties. <i>Polymer Testing</i> , 2017 , 61, 364-372	4.5	21
211	Sustainable biocarbon from pyrolyzed perennial grasses and their effects on impact modified polypropylene biocomposites. <i>Composites Part B: Engineering</i> , 2017 , 118, 116-124	10	65
210	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> , 2017 , 98, 32-44	8.4	56
209	Green design of nanoporous materials and carbonaceous foams from polyfurfuryl alcohol and epoxidized linseed oil. <i>Materials Letters</i> , 2017 , 196, 238-241	3.3	1
208	Accelerated hydrothermal aging of biocarbon reinforced nylon biocomposites. <i>Polymer Degradation and Stability</i> , 2017 , 139, 76-88	4.7	35

207	Miscibility and Performance Evaluation of Biocomposites Made from Polypropylene/Poly(lactic acid)/Poly(hydroxybutyrate--hydroxyvalerate) with a Sustainable Biocarbon Filler. <i>ACS Omega</i> , 2017 , 2, 6446-6454	3.9	27
206	Green Approaches To Engineer Tough Biobased Epoxies: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9528-9541	8.3	71
205	Examination of a Biobased Carbon Nucleating Agent on Poly(lactic acid) Crystallization. <i>Journal of Renewable Materials</i> , 2017 , 5, 94-105	2.4	11
204	Novel biocomposites from biobased PC/PLA blend matrix system for durable applications. <i>Composites Part B: Engineering</i> , 2017 , 130, 158-166	10	30
203	Biodegradable biocomposites from poly(butylene adipate-co-terephthalate) and miscanthus: Preparation, compatibilization, and performance evaluation. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45448	2.9	27
202	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> , 2017 , 7, 38594-38603	3.7	26
201	Statistical optimization of compatibilized blends of poly(lactic acid) and acrylonitrile butadiene styrene. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	20
200	Biodegradable and Bio-based Green Blends from Carbon Dioxide-Derived Bioplastic and Poly(Butylene Succinate). <i>Journal of Polymers and the Environment</i> , 2017 , 25, 499-509	4.5	12
199	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> , 2017 , 134,	2.9	8
198	Carbon nanotubes from renewable feedstocks: A move toward sustainable nanofabrication. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	26
197	Synthesis of Shape Memory Poly(glycerol sebacate)-Stearate Polymer. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600294	3.9	11
196	Sustainable biocomposites from biobased polyamide 6,10 and biocarbon from pyrolyzed miscanthus fibers. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	45
195	Biobased blends of poly(propylene carbonate) and poly(hydroxybutyrate-co-hydroxyvalerate): Fabrication and characterization. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	20
194	Influence of processing parameters on the impact strength of biocomposites: A statistical approach. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 83, 120-129	8.4	51
193	Reactive compatibilization of poly trimethylene terephthalate (PTT) and polylactic acid (PLA) using terpolymer: Factorial design optimization of mechanical properties. <i>Materials and Design</i> , 2016 , 110, 581-591	8.1	20
192	Biocomposites with Size-Fractionated Biocarbon: Influence of the Microstructure on Macroscopic Properties. <i>ACS Omega</i> , 2016 , 1, 636-647	3.9	62
191	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> , 2016 , 134, 227-236	4.7	10
190	Novel super-toughened bio-based blend from polycarbonate and poly(lactic acid) for durable applications. <i>RSC Advances</i> , 2016 , 6, 105094-105104	3.7	23

189	Crystallization behavior and morphology of polylactic acid (PLA) with aromatic sulfonate derivative. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	22
188	Sustainable biobased blends from the reactive extrusion of polylactide and acrylonitrile butadiene styrene. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	21
187	Novel Biodegradable Cast Film from Carbon Dioxide Based Copolymer and Poly(Lactic Acid). <i>Journal of Polymers and the Environment</i> , 2016 , 24, 23-36	4.5	30
186	Biobased polymer blends of poly(trimethylene terephthalate) and high density polyethylene. <i>Materials and Design</i> , 2016 , 90, 984-990	8.1	18
185	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> , 2016 , 4, 782-793	8.3	31
184	Carbonized Lignin as Sustainable Filler in Biobased Poly(trimethylene terephthalate) Polymer for Injection Molding Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 102-110	8.3	31
183	Microwave Synthesis and Melt Blending of Glycerol Based Toughening Agent with Poly(lactic acid). <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2142-2149	8.3	27
182	Oxidative acid treatment and characterization of new biocarbon from sustainable Miscanthus biomass. <i>Science of the Total Environment</i> , 2016 , 550, 241-247	10.2	42
181	Characterization of Carbonized Electrospun Lignin Fibers. <i>Plastics Engineering</i> , 2016 , 72, 38-41	0.8	
180	Alkali and Peroxide Bleach Treatments on Spring Harvested Switchgrass for Potential Composite Application. <i>BioResources</i> , 2016 , 11,	1.3	6
179	Characterization of Wastes and Coproducts from the Coffee Industry for Composite Material Production. <i>BioResources</i> , 2016 , 11,	1.3	54
178	Synthesis of Glycerol-Based Biopolyesters as Toughness Enhancers for Polylactic Acid Bioplastic through Reactive Extrusion. <i>ACS Omega</i> , 2016 , 1, 1284-1295	3.9	36
177	Perspective on Polylactic Acid (PLA) based Sustainable Materials for Durable Applications: Focus on Toughness and Heat Resistance. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2899-2916	8.3	446
176	Leaf extract mediated biogenic process for the decoration of graphene with silver nanoparticles. <i>Materials Letters</i> , 2016 , 178, 115-119	3.3	13
175	Statistical analysis of the effects of carbonization parameters on the structure of carbonized electrospun organosolv lignin fibers. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	13
174	A New Approach to Supertough Poly(lactic acid): A High Temperature Reactive Blending. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1443-1453	3.9	20
173	Thermo-mechanical characterization of bioblends from polylactide and poly(butylene adipate-co-terephthalate) and lignin. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 299-311	3.9	55
172	Green Composites from Residual Microalgae Biomass and Poly(butylene adipate-co-terephthalate): Processing and Plasticization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 614-624	8.3	70

171	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 & Interfaces</i> , 2015 , 7, 11203-14	9.5	128
170	Injection Molded Sustainable Biocomposites From Poly(butylene succinate) Bioplastic and Perennial Grass. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2767-2776	8.3	62
169	Novel Biocomposites from Biobased Epoxy and Corn-Based Distillers Dried Grains (DDG). <i>Journal of Polymers and the Environment</i> , 2015 , 23, 425-436	4.5	6
168	Improved utilization of crude glycerol from biodiesel industries: Synthesis and characterization of sustainable biobased polyesters. <i>Industrial Crops and Products</i> , 2015 , 78, 141-147	5.9	66
167	Melt Processing and Characterization of Bionanocomposites Made from Poly(butylene succinate) Bioplastic and Carbon Black. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 118-126	3.9	10
166	Iodine Treatment of Lignin Cellulose Acetate Electrospun Fibers: Enhancement of Green Fiber Carbonization. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 33-41	8.3	56
165	Electrospinning of aqueous lignin/poly(ethylene oxide) complexes. <i>Journal of Applied Polymer Science</i> , 2015 , 132,	2.9	49
164	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> , 2015 , 132,	2.9	9
163	The effect of particle size on the rheological properties of polyamide 6/biochar composites 2015 ,		7
162	An in-depth analysis of the physico-mechanical properties imparted by agricultural fibers and food processing residues in polypropylene biocomposites 2015 ,		1
161	Microscopic, structural, and electrical characterization of the carbonaceous materials synthesized from various lignin feedstocks. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	14
160	Effect of maleated polypropylene emulsion on the mechanical and thermal properties of lignin-polypropylene blends 2015 ,		3
159	Studies on the Reaction of Acrylonitrile Butadiene Styrene to Melt Processing Conditions. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 750-757	3.9	3
158	Epoxidized pine oil-siloxane: Crosslinking kinetic study and thermomechanical properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
157	Mechanical, Chemical, and Physical Properties of Wood and Perennial Grass Biochars for Possible Composite Application. <i>BioResources</i> , 2015 , 11,	1.3	34
156	Biocomposites from co-polypropylene and distillers grains 2015 ,		1
155	Biodegradable Blends from Corn Gluten Meal and Poly(butylene adipate-co-terephthalate) (PBAT): Studies on the Influence of Plasticization and Deconstructurization on Rheology, Tensile Properties and Interfacial Interactions. <i>Journal of Polymers and the Environment</i> , 2014 , 22, 167-175	4.5	16
154	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> , 2014 , 22, 209-218	4.5	41

153	Maple leaf (<i>Acer sp.</i>) extract mediated green process for the functionalization of ZnO powders with silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 169-75	6	45
152	Mechanical properties of compatibilized nylon 6/polypropylene blends; studies of the interfacial behavior through an emulsion model. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	14
151	Supertoughened renewable PLA reactive multiphase blends system: phase morphology and performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12436-48	9.5	165
150	Biodegradable Poly(butylene succinate) and Poly(butylene adipate-co-terephthalate) Blends: Reactive Extrusion and Performance Evaluation. <i>Journal of Polymers and the Environment</i> , 2014 , 22, 336-349	4.5	72
149	Study of the Curing Kinetics of Epoxy Resins with Biobased Hardener and Epoxidized Soybean Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2111-2116	8.3	119
148	A Study of Carbonized Lignin as an Alternative to Carbon Black. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1257-1263	8.3	89
147	Toughened Sustainable Green Composites from Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Based Ternary Blends and Miscanthus Biofiber. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2345-2354	8.3	50
146	Analysis of Porous Electrospun Fibers from Poly(l-lactic acid)/Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1976-1982	8.3	50
145	A statistical approach to engineer a biocomposite formulation from biofuel coproduct with balanced properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131,	2.9	8
144	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> , 2014 , 22, 439-448	4.5	50
143	Co-Injection Molded New Green Composites from Biodegradable Polyesters and Miscanthus Fibers. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 436-446	3.9	11
142	Renewable-Resource-Based Green Blends from Poly(furfuryl alcohol) Bioresin and Lignin. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 552-559	3.9	16
141	Hybrid Bio-Based Composites from UPE/EML Blends, Natural Fibers, and Nanoclay. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 1306-1315	3.9	8
140	Injection-moulded biocomposites from polylactic acid (PLA) and recycled carbon fibre: Evaluation of mechanical and thermal properties. <i>Journal of Thermoplastic Composite Materials</i> , 2014 , 27, 1286-1300	4.9	14
139	Biocomposites From Switchgrass and Lignin Hybrid and Poly(butylene succinate) Bioplastic: Studies on Reactive Compatibilization and Performance Evaluation. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 178-189	3.9	28
138	Electrospinning highly oriented and crystalline poly(lactic acid) fiber mats. <i>Journal of Materials Science</i> , 2014 , 49, 2430-2441	4.3	27
137	Effect of compatibilizer and fillers on the properties of injection molded lignin-based hybrid green composites. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 4110-4121	2.9	61
136	Renewable resource based green composites from kenaf biofiber and poly(furfuryl alcohol) bioresin. <i>Industrial Crops and Products</i> , 2013 , 41, 94-101	5.9	77

135	Characterization and Application in Biocomposites of Residual Microalgal Biomass Generated in Third Generation Biodiesel. <i>Journal of Polymers and the Environment</i> , 2013 , 21, 944-951	4.5	25
134	A New Biodegradable Injection Moulded Bioplastic from Modified Soy Meal and Poly (butylene adipate-co-terephthalate): Effect of Plasticizer and Denaturant. <i>Journal of Polymers and the Environment</i> , 2013 , 21, 615-622	4.5	16
133	Improving the interfacial adhesion in a new renewable resource-based biocomposites from biofuel coproduct and biodegradable plastic. <i>Journal of Materials Science</i> , 2013 , 48, 6025-6038	4.3	22
132	The Effect of Mold Temperature on the Performance of Injection Molded Poly(lactic acid)-Based Bioplastic. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 981-990	3.9	29
131	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> , 2013 , 42, 461-468	5.9	77
130	Biodegradable green composites from bioethanol co-product and poly(butylene adipate-co-terephthalate). <i>Industrial Crops and Products</i> , 2013 , 43, 812-819	5.9	54
129	Green polyurethane nanocomposites from soy polyol and bacterial cellulose. <i>Journal of Materials Science</i> , 2013 , 48, 2167-2175	4.3	46
128	Sustainable Green Composites: Value Addition to Agricultural Residues and Perennial Grasses. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 325-333	8.3	106
127	Lignin as a reactive reinforcing filler for water-blown rigid biofoam composites from soy oil-based polyurethane. <i>Industrial Crops and Products</i> , 2013 , 47, 13-19	5.9	124
126	Functionalization of lignin: Fundamental studies on aqueous graft copolymerization with vinyl acetate. <i>Industrial Crops and Products</i> , 2013 , 46, 191-196	5.9	45
125	Diameter-tuning of electrospun cellulose acetate fibers: a Box-Behnken design (BBD) study. <i>Carbohydrate Polymers</i> , 2013 , 92, 1100-6	10.3	27
124	Fundamental studies on water-washing of the corn ethanol coproduct (DDGS) and its characterization for biocomposite applications. <i>Biomass and Bioenergy</i> , 2013 , 55, 251-259	5.3	27
123	Biobased plastics and bionanocomposites: Current status and future opportunities. <i>Progress in Polymer Science</i> , 2013 , 38, 1653-1689	29.6	722
122	Green Composites From Soy-Based Biopolyurethane With Microcrystalline Cellulose. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 412-418	3.9	18
121	Performance Evaluation of Biofibers and Their Hybrids as Reinforcements in Bioplastic Composites. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 779-788	3.9	21
120	Enhanced conductivity and electrical relaxation studies of carbon-coated LiMnPO ₄ nanorods. <i>Ionics</i> , 2013 , 19, 461-469	2.7	18
119	Biodegradability and Compostability of Lignocellulosic Based Composite Materials. <i>Journal of Renewable Materials</i> , 2013 , 1, 253-272	2.4	30
118	A New Class of Injection Moulded Structural Biocomposites from PHBV Bioplastic and Carbon Fibre. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 789-795	3.9	4

117	Green Synthesis for Lignin Plasticization. <i>Journal of Renewable Materials</i> , 2013 , 1, 154-165	2.4	6
116	International Conference on Natural Fibers Sustainable Materials for Advanced Applications 2013. <i>Conference Papers in Materials Science</i> , 2013 , 2013, 1-1		
115	Injection Moulded Biocomposites from Oat Hull and Polypropylene/Poly lactide Blend: Fabrication and Performance Evaluation. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 761840	1.2	12
114	Material property characterization of co-products from biofuel industries: Potential uses in value-added biocomposites. <i>Biomass and Bioenergy</i> , 2012 , 37, 88-96	5.3	19
113	Optimization of tensile properties thermoplastic blends from soy and biodegradable polyesters: Taguchi design of experiments approach. <i>Journal of Materials Science</i> , 2012 , 47, 2591-2599	4.3	20
112	Thermal, mechanical, and morphological investigation of injection molded poly(trimethylene terephthalate)/carbon fiber composites. <i>Polymer Composites</i> , 2012 , 33, 1933-1940	3	10
111	Thermal, Mechanical and Rheological Behavior of Poly(lactic acid)/Talc Composites. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 1027-1037	4.5	52
110	Green Process for Impregnation of Silver Nanoparticles into Microcrystalline Cellulose and Their Antimicrobial Bionanocomposite Films. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2012 , 03, 371-376		51
109	Fully biodegradable and biorenewable ternary blends from polylactide, poly(3-hydroxybutyrate-co-hydroxyvalerate) and poly(butylene succinate) with balanced properties. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3091-101	9.5	214
108	Water-Blown Rigid Biofoams from Soy-Based Biopolyurethane and Microcrystalline Cellulose. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2012 , 89, 2057-2065	1.8	14
107	Mechanical Performance of Soy-Hull-Reinforced Bioplastic Green Composites: A Comparison with Polypropylene Composites. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 184-194	3.9	18
106	Biodegradable Blends From Plasticized Soy Meal, Polycaprolactone, and Poly(butylene succinate). <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 455-463	3.9	26
105	Studies on recyclability of polyhydroxybutyrate-co-valerate bioplastic: Multiple melt processing and performance evaluations. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E324-E331	2.9	45
104	Toughening of brittle poly(lactide) with hyperbranched poly(ester-amide) and isocyanate-terminated prepolymer of polybutadiene. <i>Journal of Materials Science</i> , 2012 , 47, 5158-5168	4.3	21
103	Novel biocomposites from poly(trimethylene terephthalate) and recycled carbon fibres. <i>Journal of Materials Science</i> , 2012 , 47, 6056-6065	4.3	6
102	A Study On The Electrospinning Behaviour And Nanofibre Morphology Of Anionically Charged Lignin. <i>Advanced Materials Letters</i> , 2012 , 3, 476-480	2.4	23
101	Renewable resources-based PTT [poly(trimethylene terephthalate)]/switchgrass fiber composites: The effect of compatibilization. <i>Pure and Applied Chemistry</i> , 2012 , 85, 521-532	2.1	6
100	Soybean (<i>Glycine Max</i>) Leaf Extract Based Green Synthesis of Palladium Nanoparticles. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2012 , 03, 14-19	1	138

99	Isolation of Cellulose Nanoparticles from Sesame Husk. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 871-876	3.9	61
98	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> , 2011 , 42, 41-49	8.4	34
97	Enhanced properties of lignin-based biodegradable polymer composites using injection moulding process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1710-1718	8.4	160
96	Carbon Coated LiMnPO ₄ Nanorods for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A227	3.9	73
95	Preparation and characterization of nanocrystalline CoFe ₂ O ₄ deposited on SiO ₂ : in situ sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 24-32	2.3	13
94	Effect of Maleated Compatibilizer on Performance of PLA/Wheat Straw-Based Green Composites. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 710-718	3.9	93
93	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> , 2011 , 296, 788-801	3.9	8
92	The Effects of Process Engineering on the Performance of PLA and PHBV Blends. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 719-728	3.9	87
91	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> , 2011 , 296, 1035-1045	3.9	28
90	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> , 2011 , 119, 2174-2182	2.9	35
89	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> , 2011 , 71, 653-657	8.6	97
88	Novel Polymeric Resin Route for the Surface Modification of Nanocrystalline LiCoO ₂ Particles with Al ₂ O ₃ . <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 161-165	0.8	3
87	Synthesis, characterization and electrical properties of carbon coated LiCoPO ₄ nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3314-22	1.3	12
86	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> , 2011 , 2, 429-434	2.4	124
85	Hybrid bio-composite from talc, wood fiber and bioplastic: Fabrication and characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 304-312	8.4	53
84	Single-walled carbon nanotubes dispersed in aqueous media via non-covalent functionalization: effect of dispersant on the stability, cytotoxicity, and epigenetic toxicity of nanotube suspensions. <i>Water Research</i> , 2010 , 44, 505-20	12.5	136
83	Physicomechanical and Thermal Properties of Jute-Nanofiber-Reinforced Biocopolyester Composites. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2775-2782	3.9	44
82	Poly lactide-based renewable green composites from agricultural residues and their hybrids. <i>Biomacromolecules</i> , 2010 , 11, 1654-60	6.9	164

81	Novel Materials from Sesame Husks and Unsaturated Polyester Resin. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6069-6074	3.9	7
80	Preparation and Characterization of Cross-Linked Starch/Poly(vinyl alcohol) Green Films with Low Moisture Absorption. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2176-2185	3.9	94
79	Compostability and biodegradation study of PLA-wheat straw and PLA-soy straw based green composites in simulated composting bioreactor. <i>Bioresource Technology</i> , 2010 , 101, 8489-91	11	68
78	Synergistic improvements in the impact strength and % elongation of polyhydroxybutyrate-co-valerate copolymers with functionalized soybean oils and POSS. <i>International Journal of Plastics Technology</i> , 2010 , 14, 1-16	2.7	14
77	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> , 2010 , 14, 45-50	2.7	20
76	Crystalline morphology of PLA/clay nanocomposite films and its correlation with other properties. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 143-151	2.9	59
75	A New Biodegradable Flexible Composite Sheet from Poly(lactic acid)/Poly(Ecaprolactone) Blends and Micro-Talc. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 750-762	3.9	83
74	Recent Advances in the Application of Natural Fiber Based Composites. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 975-989	3.9	265
73	Thermoplastics from Soy Protein: A Review on Processing, Blends and Composites. <i>Journal of Biobased Materials and Bioenergy</i> , 2010 , 4, 298-316	1.4	22
72	Novel Glycine Max (Soybean) Leaf Extract Based Biological Process for the Functionalization of Carbon Nanotubes with Silver Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , 2010 , 2, 240-243	0.8	13
71	Biological synthesis of silver nanoparticles using Glycine max (soybean) leaf extract: an investigation on different soybean varieties. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6828-33	1.3	49
70	Preparation and Characterization of Organoclay Reinforced Polylactic Acid Biocomposite Films. <i>Advanced Materials Research</i> , 2009 , 67, 289-293	0.5	
69	A study of the mechanical, thermal and morphological properties of microcrystalline cellulose particles prepared from cotton slivers using different acid concentrations. <i>Cellulose</i> , 2009 , 16, 783-793	5.5	70
68	A Study of Dynamic Mechanical and Thermal Behavior of Starch/Poly(vinylalcohol) Based Films. <i>Journal of Polymers and the Environment</i> , 2009 , 17, 49-55	4.5	21
67	A Study of Physicomechanical and Morphological Properties of Starch/Poly(vinylalcohol) Based Films. <i>Journal of Polymers and the Environment</i> , 2009 , 17, 56-63	4.5	13
66	Processing techniques for bio-based unsaturated-polyester/clay nanocomposites: Tensile properties, efficiency, and limits. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 394-403	8.4	37
65	Bio-based unsaturated polyester/layered silicate nanocomposites: Characterization and thermo-physical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 540-547	8.4	41
64	Physico-Mechanical and Morphological Study of Starch/Polyvinylalcohol Based Biocomposite Films Reinforced with Microcrystalline Cellulose. <i>Journal of Biobased Materials and Bioenergy</i> , 2009 , 3, 100-107	1.4	10

63	Biological Treatment of Soy Straw: Physicochemical Characterization. <i>Journal of Biobased Materials and Bioenergy</i> , 2009 , 3, 373-379	1.4	3
62	Effect of chemical modifications of the pineapple leaf fiber surfaces on the interfacial and mechanical properties of laminated biocomposites. <i>Composite Interfaces</i> , 2008 , 15, 169-191	2.3	136
61	Renewable resource based biocomposites from natural fiber and polyhydroxybutyrate-co-valerate (PHBV) bioplastic. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 875-886	8.4	160
60	A Preliminary Study on Antimicrobial Edible Films from Pectin and Other Food Hydrocolloids by Extrusion Method. <i>Journal of Natural Fibers</i> , 2008 , 5, 366-382	1.8	14
59	Hybrid bio-based composites from blends of unsaturated polyester and soybean oil reinforced with nanoclay and natural fibers. <i>Composites Science and Technology</i> , 2008 , 68, 3344-3351	8.6	136
58	Modification of Soy Protein Plastic with Functional Monomer with Reactive Extrusion. <i>Journal of Polymers and the Environment</i> , 2008 , 16, 177-182	4.5	22
57	Thermal and electrical behavior of vinylester resin matrix composites filled with fly ash particles. <i>Polymer Composites</i> , 2008 , 29, 58-62	3	20
56	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> , 2008 , 68, 424-432	8.6	522
55	Extruded Biodegradable Cast Films from Polyhydroxyalkanoate and Thermoplastic Starch Blends: Fabrication and Characterization. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 1218-1228	3.9	56
54	Influence of processing methods and fiber length on physical properties of kenaf fiber reinforced soy based biocomposites. <i>Composites Part B: Engineering</i> , 2007 , 38, 352-359	10	142
53	Processing and physical properties of native grass-reinforced biocomposites. <i>Polymer Engineering and Science</i> , 2007 , 47, 969-976	2.3	15
52	Novel biobased resins from blends of functionalized soybean oil and unsaturated polyester resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 698-704	2.6	63
51	Biodegradable nanocomposites from toughened polyhydroxybutyrate and titanate-modified montmorillonite clay. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3580-9	1.3	11
50	Modification of brittle polylactide by novel hyperbranched polymer-based nanostructures. <i>Biomacromolecules</i> , 2007 , 8, 2476-84	6.9	149
49	Welcome to the Journal of Biobased Materials and Bioenergy. <i>Journal of Biobased Materials and Bioenergy</i> , 2007 , 1, i-ii	1.4	11
48	Advances in the Properties of Polylactides Based Materials: A Review. <i>Journal of Biobased Materials and Bioenergy</i> , 2007 , 1, 191-209	1.4	78
47	Renewable Resource Based Biocomposites from Coproduct of Dry Milling Corn Ethanol Industry and Castor Oil Based Biopolyurethanes. <i>Journal of Biobased Materials and Bioenergy</i> , 2007 , 1, 257-265	1.4	16
46	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> , 2006 , 66, 1813-1824	8.6	368

45	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> , 2006 , 99, 1055-1068	2.9	117
44	Effect of the processing methods on the performance of polylactide films: Thermocompression versus solvent casting. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3736-3742	2.9	146
43	A Solvent Free Graft Copolymerization of Maleic Anhydride onto Cellulose Acetate Butyrate Bioplastic by Reactive Extrusion. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 90-95	3.9	23
42	Static and Dynamic Mechanical Properties of Vinylester Resin Matrix Composites Filled with Fly Ash. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 784-792	3.9	26
41	Preparation and Properties of Vinylester Resin/Clay Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1513-1520	3.9	29
40	Characterization and thermophysical properties of unsaturated polyester-layered silicate nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 464-71	1.3	20
39	Novel Talc-Filled Biodegradable Bacterial Polyester Composites. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7497-7503	3.9	29
38	Renewable resource-based green composites from recycled cellulose fiber and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) bioplastic. <i>Biomacromolecules</i> , 2006 , 7, 2044-51	6.9	172
37	Biodegradable toughened polymers from renewable resources: blends of polyhydroxybutyrate with epoxidized natural rubber and maleated polybutadiene. <i>Green Chemistry</i> , 2006 , 8, 206-213	10	64
36	Development of Biobased Unsaturated Polyester Containing Functionalized Linseed Oil. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1014-1018	3.9	39
35	Influence of Plasticizers on Thermal and Mechanical Properties and Morphology of Soy-Based Bioplastics. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7491-7496	3.9	72
34	Value-Added New Materials from Byproduct of Corn Based Ethanol Industries: Blends of Plasticized Corn Gluten Meal and Poly(ϵ -caprolactone). <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 6147-6152	3.9	27
33	Biobased epoxy/clay nanocomposites as a new matrix for CFRP. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006 , 37, 54-62	8.4	70
32	Biodegradable nanocomposites from cellulose acetate: Mechanical, morphological, and thermal properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006 , 37, 1428-1433	8.4	59
31	Effect of Accelerated Weathering on Biocomposites Processed by SMC and Compression Molding. <i>Journal of Polymers and the Environment</i> , 2006 , 14, 359-368	4.5	21
30	A Study on Biocomposites from Recycled Newspaper Fiber and Poly(lactic acid). <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 5593-5601	3.9	208
29	Injection Molded Glass Fiber Reinforced Poly(trimethylene terephthalate) Composites: Fabrication and Properties Evaluation. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 857-862	3.9	54
28	Hybrid biofiber-based composites for structural cellular plates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 581-593	8.4	46

27	Novel Biocomposites from Native Grass and Soy Based Bioplastic: Processing and Properties Evaluation. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7105-7112	3.9	38
26	Rheological, Thermal, and Morphological Characteristics of Plasticized Cellulose Acetate Composite with Natural Fibers. <i>Macromolecular Symposia</i> , 2005 , 224, 297-308	0.8	13
25	Novel biobased nanocomposites from functionalized vegetable oil and organically-modified layered silicate clay. <i>Polymer</i> , 2005 , 46, 445-453	3.9	76
24	Green Composites from soy based plastic and pineapple leaf fiber: fabrication and properties evaluation. <i>Polymer</i> , 2005 , 46, 2710-2721	3.9	257
23	Hierarchical cellular designs for load-bearing biocomposite beams and plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 390, 178-187	5.3	25
22	Fracture toughness and impact strength of anhydride-cured biobased epoxy. <i>Polymer Engineering and Science</i> , 2005 , 45, 487-495	2.3	142
21	Mechanical properties of carbon nanotubes and their polymer nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1593-615	1.3	124
20	Effect of titanate-based surface on hydrophilicity and interlayer spacing of montmorillonite clay for polymer nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 2138-43	1.3	2
19	Recent advances in biodegradable nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 497-526	1.3	219
18	"Green" nanocomposites from cellulose acetate bioplastic and clay: effect of eco-friendly triethyl citrate plasticizer. <i>Biomacromolecules</i> , 2004 , 5, 2281-8	6.9	219
17	Influence of fiber surface treatment on properties of Indian grass fiber reinforced soy protein based biocomposites. <i>Polymer</i> , 2004 , 45, 7589-7596	3.9	122
16	Thermo-Physical and Impact Properties of Epoxy Containing Epoxidized Linseed Oil, 2. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 636-641	3.9	80
15	Thermo-Physical and Impact Properties of Epoxy Containing Epoxidized Linseed Oil, 1. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 629-635	3.9	101
14	A Review on Pineapple Leaf Fibers, Sisal Fibers and Their Biocomposites. <i>Macromolecular Materials and Engineering</i> , 2004 , 289, 955-974	3.9	272
13	Effect of Clay and Alumina-Nanowhisker Reinforcements on the Mechanical Properties of Nanocomposites from Biobased Epoxy: A Comparative Study. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 7001-7009	3.9	47
12	Chopped Industrial Hemp Fiber Reinforced Cellulosic Plastic Biocomposites: Thermomechanical and Morphological Properties. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4883-4888	3.9	51
11	Effect of Compatibilizer on Nanostructure of the Biodegradable Cellulose Acetate/Organoclay Nanocomposites. <i>Macromolecules</i> , 2004 , 37, 9076-9082	5.5	144
10	Load-bearing natural fiber composite cellular beams and panels. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004 , 35, 645-656	8.4	61

9	Surface characterization of natural fibers; surface properties and the water up-take behavior of modified sisal and coir fibers. <i>Green Chemistry</i> , 2001 , 3, 100-107	10	145
8	Studies of Cu(II)EDTA-initiated graft copolymerization of methyl methacrylate from defatted pineapple leaf fibres. <i>Polymer International</i> , 1999 , 48, 868-872	3.3	12
7	Surface modification of coir fibers I: studies on graft copolymerization of methyl methacrylate on to chemically modified coir fibers. <i>Polymers for Advanced Technologies</i> , 1999 , 10, 336-344	3.2	23
6	Graft copolymerization of acrylonitrile onto acetylated jute fibers. <i>Journal of Applied Polymer Science</i> , 1989 , 37, 1171-1181	2.9	37
5	Characterization of methyl methacrylate grafted jute fibers. <i>Journal of Applied Polymer Science</i> , 1989 , 37, 1423-1427	2.9	2
4	Microplastics in the ecosystems: Their implications and mitigation pathway		0
3	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
2	Impacts of COVID-19 Outbreak on the Municipal Solid Waste Management: Now and beyond the Pandemic. <i>ACS Environmental Au</i> ,		9
1	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