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Biodegradability of polylactide bottles in real and simulated composting conditions

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#	Paper	IF	Citations
278	Compostability of polymers. 2008 , 57, 793-804		105
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276	Thermal and mechanical properties of chemical crosslinked polylactide (PLA). <i>Polymer Testing</i> , 2008 , 27, 957-963	4.5	252
275	Pa through Ph. 851-957		
274	Some Effects of Corona Plasma Treatment of Polylactide/Montmorillonite Nanocomposite Films. 2009 , 6, S387-S391		14
273	Plasticization of poly(lactide) with blends of tributyl citrate and low molecular weight poly(d,l-lactide)-b-poly(ethylene glycol) copolymers. 2009 , 45, 2839-2848		131
272	Environmental biodegradation of synthetic polymers I. Test methodologies and procedures. 2009 , 28, 1057-1072		97
271	Degradation of Biodegradable Polymers in Real and Simulated Composting Conditions. 2009 , 31-40		4
270	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
269	Atmospheric and soil degradation of aliphatic-aromatic polyester films. <i>Polymer Degradation and Stability</i> , 2010 , 95, 99-107	4.7	100
268	Synthesis and characterization of corn starch based green composites reinforced with Saccharum spontaneum L graft copolymers prepared under micro-wave and their effect on thermal, physio-chemical and mechanical properties. <i>Polymer Degradation and Stability</i> , 2010 , 95, 1694-1703	4.7	37
267	Comparative compostability and biodegradation studies of various components of green composites and their blends in simulated aerobic composting bioreactor. 2010 , 14, 45-50		20
266	Assessment of metal contaminations leaching out from recycling plastic bottles upon treatments. 2010 , 17, 1323-30		59
265	Critical Review of Norms and Standards for Biodegradable Agricultural Plastics Part II: Composting. 2010 , 18, 364-383		61
264	Poly-Lactic Acid: Production, Applications, Nanocomposites, and Release Studies. 2010 , 9, 552-571		911
263	Heat and humidity performance of injection molded PLA for durable applications. 2010 , 115, 1380-1389		47
262	Superhydrophobic PLA fabrics prepared by UV photo-grafting of hydrophobic silica particles possessing vinyl groups. 2010 , 344, 584-7		55

261	Design considerations for high-temperature respirometric biodegradation of polymers in compost. <i>Polymer Testing</i> , 2010 , 29, 147-157	4-5	12
260	Development of corn starch based green composites reinforced with <i>Saccharum spontaneum</i> L fiber and graft copolymers--evaluation of thermal, physico-chemical and mechanical properties. <i>Bioresource Technology</i> , 2010 , 101, 6843-51	11	85
259	An overview of the recent developments in polylactide (PLA) research. <i>Bioresource Technology</i> , 2010 , 101, 8493-501	11	1643
258	Studies on the biodegradation of natural and synthetic polyethylene by <i>Pseudomonas</i> spp. 2010 , 14,		20
257	Application in the Field of Commodity and Industry Product. 2010 , 208-239		3
256	The effect of processing and composition on the properties of polylactide-multiwall carbon nanotube composites prepared by solvent casting. 2010 , 19, 094003		10
255	Poly(lactic acid). 2010 ,		3
254	Control of Crystal Morphology in Poly(l-lactide) by Adding Nucleating Agent. 2011 , 44, 1233-1237		171
253	. 2011 ,		6
252	Overview of Biodegradable Packaging, Methods, and Current Trends. 2011 , 411-419		0
251	Characteristics and Applications of Poly(lactide). 2011 , 183-223		11
250	Degradation behaviour of poly(lactic acid) films and fibres in soil under Mediterranean field conditions and laboratory simulations testing. 2011 , 33, 648-658		115
249	Comparative Biodegradation in Soil Behaviour of two Biodegradable Polymers Based on Renewable Resources. 2011 , 19, 18-39		76
248	Biodegradable Polymers- A Review on Recent Trends and Emerging Perspectives. 2011 , 19, 637-676		431
247	Degradation of Poly(l-Lactic Acid) and Bio-Composites by Alkaline Medium Under Various Temperatures. 2011 , 19, 766-775		14
246	Synthesis, characterization of star-shaped copolymers of l-lactide and epoxidized soybean oil. 2011 , 66, 315-326		10
245	Preparation and characterization of PLLA/BSO/surface-grafted silica nanocomposites. 2011 , 67, 1261-1271		11
244	Photooxidation of polylactide/calcium sulphate composites. <i>Polymer Degradation and Stability</i> , 2011 , 96, 616-623	4-7	78

243	Enhanced impact properties of polylactide by poly(lactide-b-butadiene-b-lactide) triblock copolymer. 2011 , 19, 943-947		17
242	Biodegradability assessment of aliphatic polyesters-based blends using standard methods. 2011 , 119, 3338-3346		26
241	Biodegradability of injection molded bioplastic pots containing polylactic acid and poultry feather fiber. <i>Bioresource Technology</i> , 2011 , 102, 4930-3	11	59
240	Characterization of hydrolytic degradation of polylactic acid/rice hulls composites in water at different temperatures. 2011 , 5, 119-131		121
239	Effects of a Multifunctional Polymeric Chain Extender on the Properties of Polylactide and Polylactide/Clay Nanocomposites. 2012 , 27, 505-516		17
238	Compostability and Ecotoxicity of Poly(lactic acid) and Starch Blends. 2012 , 506, 323-326		7
237	Dynamic Mechanical Behaviour of Poly Ethylene Glycol Plasticized Polylacticacid. 2012 , 576, 224-227		
236	Study of the Biodegradability of Degradable/Biodegradable Plastic Material in a Controlled Composting Environment. 2012 , 19, 347-358		20
235	Biodegradability Characterization of Polymer Nanocomposites. 2012 , 323-346		6
234	Degradability studies of poly(l-lactide) after multi-reprocessing experiments in extruder. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1891-1897	4-7	38
233	Commercial biodegradable material for food contact: methodology for assessment of service life. 2012 , 61, 1648-1654		7
232	Surface modification of cellulose nanofibrils for poly(lactic acid) composite application. 2012 , 125, 3084-3091		54
231	Polyethylene and biodegradable mulches for agricultural applications: a review. 2012 , 32, 501-529		546
230	Use of mid- and near-infrared spectroscopy to track degradation of bio-based eating utensils during composting. <i>Bioresource Technology</i> , 2012 , 109, 93-7	11	16
229	Synthesis of EVA-g-PLA copolymers using transesterification reactions. 2012 , 134, 103-110		31
228	Biodegradation of sequentially surface treated lignocellulose reinforced polylactic acid composites: Carbon dioxide evolution and morphology. <i>Polymer Degradation and Stability</i> , 2012 , 97, 430-438	4-7	26
227	Study of optimization of the synthesis and properties of biocomposite films based on grafted chitosan. 2012 , 109, 752-761		31
226	PLA and Organoclays Nanocomposites: Degradation Process and Evaluation of ecotoxicity Using <i>Allium cepa</i> as Test Organism. 2013 , 21, 1052-1063		35

225	PLA and Montmorillonite Nanocomposites: Properties, Biodegradation and Potential Toxicity. 2013 , 21, 738-759		33
224	Biodegradation behavior of poly(butylene adipate-co-terephthalate) (PBAT), poly(lactic acid) (PLA), and their blend under soil conditions. <i>Polymer Testing</i> , 2013 , 32, 918-926	4-5	251
223	Structure, properties and interfacial interactions in poly(lactic acid)/polyurethane blends prepared by reactive processing. 2013 , 49, 3104-3113		51
222	Comparative thermal, biological and photodegradation kinetics of polylactide and effect on crystallization rates. <i>Polymer Degradation and Stability</i> , 2013 , 98, 771-784	4-7	44
221	Effect of ethylene-co-vinyl acetate-glycidylmethacrylate and cellulose microfibrils on the thermal, rheological and biodegradation properties of poly(lactic acid) based systems. <i>Polymer Degradation and Stability</i> , 2013 , 98, 2742-2751	4-7	36
220	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: properties evaluation. 2013 , 96, 621-7		82
219	Novel aspects of the degradation process of PLA based bulky samples under conditions of high partial pressure of water vapour. <i>Polymer Degradation and Stability</i> , 2013 , 98, 150-157	4-7	22
218	Effect of processing routes on the mechanical, thermal and morphological properties of PLA-based hybrid biocomposite. 2013 , 22, 123-131		33
217	Multifunctional nanostructured PLA materials for packaging and tissue engineering. 2013 , 38, 1720-1747		421
216	Biodegradation behavior of P(3HB,4HB)/PLA blends in real soil environments. <i>Polymer Testing</i> , 2013 , 32, 60-70	4-5	78
215	Poly(L-lactide) initiated by silver N-heterocyclic carbene complexes: synthesis, characterization and properties. 2013 , 70, 3475-3485		5
214	Degradation and Stability of Poly(lactic Acid). 2013 , 247-299		3
213	THE EFFECT OF BIODEGRADATION/DEGRADATION OF DEGRADABLE PLASTIC MATERIAL ON COMPOST QUALITY. 2013 , 20, 783-798		
212	Preparation and Properties of PLA/Nano-ZnO Composite. 2013 , 392, 41-45		3
211	Biodegradabilidad de Artículos Desechables en un Sistema de Composta con Lombriz. 2013 , 24, 47-56		2
210	Experimental Study of the Plasma Polymerization of Ethyl Lactate. 2013 , 10, 999-1009		27
209	Crystallization behavior and crystallite morphology control of poly(L-lactic acid) through N,N'-bis(benzoyl)sebacic acid dihydrazide. 2013 , 62, 647-657		24
208	Hybrid Fibre Polylactide Acid Composite with Empty Fruit Bunch: Chopped Glass Strands. 2014 , 2014, 1-7		14

207	Depolymerization of Post-Consumer Polylactic Acid Products. 2014 , 2, 157-165		7
206	Interactions, structure and properties in poly(lactic acid)/thermoplastic polymer blends. 2014 , 8, 2-14		80
205	Influence of biodegradable materials in the recycled polystyrene. 2014 , 131, n/a-n/a		11
204	Evaluation of biodegradability of plastics bags in composting conditions. 2014 , 21, 45-57		14
203	Nano-biocomposite films with modified cellulose nanocrystals and synthesized silver nanoparticles. 2014 , 101, 1122-33		136
202	Hydrothermal ageing of polylactide/sisal biocomposites. Studies of water absorption behaviour and Physico-Chemical performance. <i>Polymer Degradation and Stability</i> , 2014 , 108, 212-222	4-7	59
201	Combining mass spectrometry diagnostic and density functional theory calculations for a better understanding of the plasma polymerization of ethyl lactate. 2014 , 118, 4201-11		20
200	Identification of important abiotic and biotic factors in the biodegradation of poly(l-lactic acid). <i>International Journal of Biological Macromolecules</i> , 2014 , 71, 155-62	7-9	51
199	Crystalline properties of polylactide acid-filled aragonite CaCO ₃ derived from Polymesoda bengalensis (lokan) shell. 2014 , 18, S6-95-S6-99		1
198	Melt blending of polylactide and poly(methyl methacrylate): Thermal and mechanical properties and phase morphology characterization. 2015 , 132, n/a-n/a		25
197	Effects of poly(dimethyl siloxane) on the water absorption and natural degradation of poly(lactic acid)/oil-palm empty-fruit-bunch fiber biocomposites. 2015 , 132, n/a-n/a		16
196	Thermal hydrolysis of poly(l-lactic acid) films and cytotoxicity of water-soluble degradation products. 2015 , 132, n/a-n/a		6
195	Crystallization kinetics and morphology of biodegradable poly(lactic acid) with a hydrazide nucleating agent. <i>Polymer Testing</i> , 2015 , 45, 101-106	4-5	44
194	Compostable biopolymer use in the real world: Stakeholder interviews to better understand the motivations and realities of use and disposal in the US. <i>Resources, Conservation and Recycling</i> , 2015 , 105, 134-142	11-9	36
193	Selection of a Pseudonocardia sp. RM423 that accelerates the biodegradation of poly(lactic) acid in submerged cultures and in soil microcosms. 2015 , 99, 23-30		42
192	Lignocellulosic fibre mediated rubber composites: An overview. 2015 , 76, 180-191		71
191	Effect of processing conditions and lignin content on thermal, mechanical and degradative behavior of lignin nanoparticles/poly(lactic acid) bionanocomposites prepared by melt extrusion and solvent casting. 2015 , 71, 126-139		106
190	Selective degradation of biodegradable blends in simulated laboratory composting. <i>Polymer Degradation and Stability</i> , 2015 , 120, 435-442	4-7	64

189	Polyester-based (bio)degradable polymers as environmentally friendly materials for sustainable development. <i>International Journal of Molecular Sciences</i> , 2014 , 16, 564-96	6.3	153
188	Properties and medical applications of polylactic acid: A review. 2015 , 9, 435-455		378
187	Degradability of polylactide and its blend with poly[(R,S)-3-hydroxybutyrate] in industrial composting and compost extract. 2015 , 101, 32-41		46
186	Chemical foaming extrusion of poly(lactic acid) with chain-extenders: Physical and morphological characterizations. 2015 , 67, 40-49		30
185	Tough crystalline blends of polylactide with block copolymers of ethylene glycol and propylene glycol. <i>Polymer Testing</i> , 2015 , 46, 79-87	4.5	22
184	Experimental and Theoretical Study of the Plasma Chemistry of Ethyl Lactate Plasma Polymerization Discharges. 2015 , 12, 405-415		18
183	Tough and transparent blends of polylactide with block copolymers of ethylene glycol and propylene glycol. <i>Polymer Testing</i> , 2015 , 41, 209-218	4.5	19
182	Bio-Based Polymers with Potential for Biodegradability. <i>Polymers</i> , 2016 , 8,	4.5	126
181	The effect of the addition of poly(styrene-co-glycidyl methacrylate) copolymer on the properties of polylactide/poly(methyl methacrylate) blend. 2016 , 133,		18
180	Motion mode of poly(lactic acid) chains in film during strain-induced crystallization. 2016 , 133, n/a-n/a		3
179	Birefringent properties of poly-lactic acid at terahertz range. 2016 ,		
178	Alkaline Amendment for the Enhancement of Compost Degradation for Polylactic Acid Biopolymer Products. 2016 , 24, 159-173		15
177	Anaerobic digestion of aliphatic polyesters. 2016 , 73, 2386-93		8
176	Effect of cellulose and lignin on disintegration, antimicrobial and antioxidant properties of PLA active films. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 360-8	7.9	106
175	The Effect of Gamma and Electron Beam Irradiation on the Biodegradability of PLA Films. 2016 , 24, 230-240		13
174	Process-structure-property relationship of melt spun poly(lactic acid) fibers produced in the spunbond process. 2016 , 133,		7
173	Mechanical recycling of polylactide, upgrading trends and combination of valorization techniques. 2016 , 84, 22-39		60
172	Characteristics and Applications of PLA. 2016 , 171-224		5

171	Effect of pressure on poly-l-Lactic Acid morphology. 2016 , 99, 250-262		2
170	Mineralization of Poly(lactic acid) (PLA), Poly(3-hydroxybutyrate-co-valerate) (PHBV) and PLA/PHBV Blend in Compost and Soil Environments. 2016 , 4, 133-145		28
169	New Polymer Behavior Under the Landfill Conditions. 2016 , 7, 1459-1467		9
168	Controlled biodegradation of polymers using nanoparticles and its application. 2016 , 6, 67449-67480		51
167	Preformed and sprayable polymeric mulch film to improve agricultural water use efficiency. 2016 , 169, 1-13		65
166	Biodegradable electrospun bionanocomposite fibers based on plasticized PLA/PHB blends reinforced with cellulose nanocrystals. 2016 , 93, 290-301		89
165	Reinforced electrospun PLLA fiber membrane via chemical crosslinking. 2016 , 74, 101-108		35
164	Insights on the aerobic biodegradation of polymers by analysis of evolved carbon dioxide in simulated composting conditions. <i>Polymer Degradation and Stability</i> , 2017 , 137, 251-271	4-7	68
163	Degradability and Clearance of Silicon, Organosilica, Silsesquioxane, Silica Mixed Oxide, and Mesoporous Silica Nanoparticles. 2017 , 29, 1604634		369
162	Long-term properties and end-of-life of polymers from renewable resources. <i>Polymer Degradation and Stability</i> , 2017 , 137, 35-57	4-7	66
161	The effect of halloysite nanotubes and N,N'-ethylenebis (stearamide) on the properties of polylactide nanocomposites with amorphous matrix. <i>Polymer Testing</i> , 2017 , 61, 35-45	4-5	12
160	Photo- and Biodegradable Thermoplastic Elastomers: Combining Ketone-Containing Polybutadiene with Polylactide Using Ring-Opening Polymerization and Ring-Opening Metathesis Polymerization. 2017 , 50, 4180-4187		21
159	Improved flame-retardant and tensile properties of thermoplastic starch/flax fabric green composites. 2017 , 168, 201-211		37
158	Disintegration of compostable foodware and packaging and its effect on microbial activity and community composition in municipal composting. 2017 , 125, 157-165		7
157	The effect of halloysite nanotubes and N,N'-ethylenebis (stearamide) on morphology and properties of polylactide nanocomposites with crystalline matrix. <i>Polymer Testing</i> , 2017 , 64, 83-91	4-5	9
156	Complex study of the physical properties of a poly(lactic acid)/poly(3-hydroxybutyrate) blend and its carbon black composite during various outdoor and laboratory ageing conditions. 2017 , 7, 47132-47142		16
155	Increase of value and stability of electret characteristics of polylactide by magnesium oxide modification. 2017 ,		2
154	Degradability of polylactide films by commercial microbiological preparations for household composters. 2017 , 19, 44-48		3

153	Acceleration of polylactide degradation under biotic and abiotic conditions through utilization of a new, experimental, highly compatible additive. <i>Polymer Degradation and Stability</i> , 2017 , 142, 217-225	4-7	12
152	Isolation and characterization of bacteria capable of degrading poly(lactic acid) at ambient temperature. <i>Polymer Degradation and Stability</i> , 2017 , 144, 392-400	4-7	42
151	Design and Manufacturing of Sustainable Composites. 2017 , 533-601		
150	Hydrolysis and Biodegradation of Poly(lactic acid). 2017 , 119-151		39
149	Biodegradation of bioplastics in natural environments. 2017 , 59, 526-536		423
148	Compostable Polymeric Ecomaterials: Environment-Friendly Waste Management Alternative to Landfills. 2017 , 1-31		2
147	Biodegradation of Biopolymers. 2017 , 739-755		27
146	Synthesis and Biodegradation of Poly(l-lactide-co-ε-propiolactone). <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6-3	10
145	Preparation of TiO ₂ -loaded electrospun fibers of polylactide/poly(vinylpyrrolidone) blends for use as catalysts in epoxidation of unsaturated oils. 2018 , 20, 1		7
144	Peculiar effect of stereocomplexes on the photochemical ageing of PLA/PMMA blends. <i>Polymer Degradation and Stability</i> , 2018 , 150, 92-104	4-7	5
143	Chemical recycling of poly(lactic acid) by water-ethanol solutions. <i>Polymer Degradation and Stability</i> , 2018 , 149, 28-38	4-7	31
142	Numerical Simulation of the Crack Formation in the Quenched Poly(l-lactic acid) Spherulites. 2018 , 27, 1700043		1
141	(Bio)degradable polymeric materials for a sustainable future - part 1. Organic recycling of PLA/PBAT blends in the form of prototype packages with long shelf-life. 2018 , 77, 447-454		31
140	Catalysis as an Enabling Science for Sustainable Polymers. 2018 , 118, 839-885		422
139	How Performance and Fate of Biodegradable Mulch Films are Impacted by Field Ageing. 2018 , 26, 2588-2600		24
138	Bulk Modification of Poly(lactide) (PLA) via Copolymerization with Poly(propylene glycol) Diglycidylether (PPGDGE). <i>Polymers</i> , 2018 , 10,	4-5	10
137	Morphological structure, impact toughness, thermal property and kinetic analysis on the cold crystallization of poly (lactic acid) bio-composites toughened by precipitated barium sulfate. <i>Polymer Degradation and Stability</i> , 2018 , 158, 176-189	4-7	5
136	Polylactide-based self-reinforced composites biodegradation: Individual and combined influence of temperature, water and compost. <i>Polymer Degradation and Stability</i> , 2018 , 158, 40-51	4-7	19

135	Properties of PLA/PMMA blends with high polylactide content prepared by reactive mixing in presence of poly(styrene-co-glycidyl methacrylate) copolymer. 2018 , 135, 46825		4
134	A comparison study of high shear force and compatibilizer on the phase morphologies and properties of polypropylene/polylactide (PP/PLA) blends. 2018 , 154, 119-127		32
133	Computational determination of ring opening polymerization reaction mechanism of ϵ -angelica lactone. 2018 , 1142, 1-8		3
132	Accelerating biodegradation of PLA using microbial consortium from dairy wastewater sludge combined with PLA-degrading bacterium. 2018 , 132, 74-83		36
131	Present and Future of Biodegradable Polymers for Food Packaging Applications. 2018 , 431-467		33
130	Poly(lactic Acid) Based Hydrogels and Its Renewable Characters: Tissue Engineering Applications. 2018 , 1-24		1
129	Biodegradability and Compostability of Food Nanopackaging Materials. 2018 , 269-296		20
128	Three-dimensional printing of PLA and PLA/PHA dumbbell-shaped specimens of crisscross and transverse patterns as promising materials in emerging application areas: Prediction study. <i>Polymer Degradation and Stability</i> , 2018 , 156, 100-110	4-7	26
127	Biodegradation of Poly(lactic acid) in Soil Microcosms at Ambient Temperature: Evaluation of Natural Attenuation, Bio-augmentation and Bio-stimulation. 2018 , 26, 3848-3857		42
126	Investigation on the environmental-friendly poly(lactic acid) composites based on precipitated barium sulfate: Mechanical, thermal properties, and kinetic study of thermal degradation. 2019 , 136, 47995		2
125	Degradation and Stability of Poly(Lactic Acid). 2019 , 227-272		
124	A review on the thermomechanical properties and biodegradation behaviour of polyesters. 2019 , 121, 109296		58
123	Investigation of mechanical properties and applications of polylactic acids—review. 2019 , 6, 112002		14
122	Crystallization and Rheological Properties of the Eco-friendly Composites Based on Poly (lactic acid) and Precipitated Barium Sulfate. 2019 , 27, 2739-2755		2
121	Biodegradation Behavior of Poly (Lactic Acid) (PLA), Poly (Butylene Adipate-Co-Terephthalate) (PBAT), and Their Blends Under Digested Sludge Conditions. 2019 , 27, 2784-2792		18
120	Cellulose Nanocrystals in Food Packaging. 2019 ,		1
119	Methodologies to assess biodegradation of bioplastics during aerobic composting and anaerobic digestion: A review. <i>Waste Management and Research</i> , 2019 , 37, 959-975	4	60
118	Biodegradation of compostable polymer materials under real conditions. 2019 , 239-254		1

117	Extrusion blow molding of environmentally friendly bottles in biodegradable polyesters blends. <i>Polymer Testing</i> , 2019 , 77, 105885	4-5	10
116	Influence of Various Climatic Conditions on the Structural Changes of Semicrystalline PLA Spun-Bonded Mulching Nonwovens during Outdoor Composting. <i>Polymers</i> , 2019 , 11,	4-5	5
115	Disintegration and Biodegradation in Soil of PBAT Mulch Films: Influence of the Stabilization Systems Based on Carbon Black/Hindered Amine Light Stabilizer and Carbon Black/Vitamin E. 2019 , 27, 1584-1594		12
114	New Kids in Lactide Polymerization: Highly Active and Robust Iron Guanidine Complexes as Superior Catalysts. <i>ChemSusChem</i> , 2019 , 12, 2161-2165	8-3	33
113	Biodegradation of modified Poly(lactic acid) based biocomposite films under thermophilic composting conditions. <i>Polymer Testing</i> , 2019 , 76, 522-536	4-5	32
112	Application of Biodegradable Polymers in Food Packaging Industry: A Comprehensive Review. 2019 , 3, 77-96		139
111	A review on versatile applications of blends and composites of CNC with natural and synthetic polymers with mathematical modeling. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 591-626	7-9	33
110	Poly(lactic acid)-Based Hydrogels and Its Renewable Characters: Tissue Engineering Applications. 2019 , 1537-1559		1
109	Star-shaped and branched polylactides: Synthesis, characterization, and properties. 2019 , 89, 159-212		72
108	Poly(lactic acid) based hydrogels: formation, characteristics and biomedical applications. 2019 , 26, 881-901		31
107	Biodegradable geotextiles [An overview of existing and potential materials. 2019 , 47, 48-59		49
106	Properties and End-of-Life of Polymers From Renewable Resources. 2020 , 253-262		3
105	Preliminary evaluation of the anaerobic biodegradability of three biobased materials used for the production of disposable plastics. 2020 , 390, 121653		23
104	Undiscovered Potential: Ge Catalysts for Lactide Polymerization. 2020 , 26, 212-221		22
103	Synthesis, characterization and application of polyacrylamide grafted bioflocculant. 2020 , 115, 102821		9
102	Influence of substrate and temperature on the biodegradation of polyester-based materials: Polylactide and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) as model cases. <i>Polymer Degradation and Stability</i> , 2020 , 180, 109288	4-7	7
101	A Comparative Study between Bimetallic Iron@copper Nanoparticles with Iron and Copper Nanoparticles Synthesized Using a Bioflocculant: Their Applications and Biosafety. 2020 , 8, 1125		2
100	Reactive and Functional Polymers Volume Four. 2020 ,		

99	Biodegradation of Wasted Bioplastics in Natural and Industrial Environments: A Review. <i>Sustainability</i> , 2020 , 12, 6030	3.6	93
98	Benchmarking Bioplastics: A Natural Step Towards a Sustainable Future. 2020 , 28, 3055-3075		25
97	The Effect of Natural Additives on the Composting Properties of Aliphatic Polyesters. <i>Polymers</i> , 2020 , 12,	4.5	5
96	The Chemical Recycling of PLA: A Review. 2020 , 1, 1-22		42
95	Biodegradation of Bioplastic Using Anaerobic Digestion at Retention Time as per Industrial Biogas Plant and International Norms. <i>Sustainability</i> , 2020 , 12, 4231	3.6	19
94	Multifunctional polylactide nonwovens with 3D network of multiwall carbon nanotubes. 2020 , 527, 146898		3
93	Biodegradable kinetics and behavior of bio-based polyblends under simulated aerobic composting conditions. <i>Journal of Environmental Management</i> , 2020 , 261, 110211	7.9	12
92	Monitoring of mechanical performances of flax non-woven biocomposites during a home compost degradation. <i>Polymer Degradation and Stability</i> , 2020 , 177, 109166	4.7	23
91	Mycelium Materials. 2021 , 710-718		4
90	Anaerobic co-digestion of bioplastics as a sustainable mode of waste management with improved energy production - A review. <i>Bioresource Technology</i> , 2021 , 322, 124537	11	34
89	Processing of bio-based polymers for industrial and medical applications. 2021 , 191-238		
88	Economic and environmental concerns of bio-based polymers processing. 2021 , 239-254		
87	Application of biopolymers in bioplastics. 2021 , 1-44		1
86	Migration and Degradation in Composting Environment of Active Polylactic Acid Bilayer Nanocomposites Films: Combined Role of Umbelliferone, Lignin and Cellulose Nanostructures. <i>Polymers</i> , 2021 , 13,	4.5	2
85	Poly(lactic acid) (PLA) and polyhydroxyalkanoates (PHAs), green alternatives to petroleum-based plastics: a review.. 2021 , 11, 17151-17196		56
84	The sustainable cycle of a new cacao-based bioplastic: from manufacturing to exploitable biodegradation products.. 2021 , 11, 29976-29985		1
83	Degradation of Film and Rigid Bioplastics During the Thermophilic Phase and the Maturation Phase of Simulated Composting. 2021 , 29, 3015-3028		14
82	Pilot-Scale Composting Test of Polylactic Acid for Social Implementation. <i>Sustainability</i> , 2021 , 13, 1654	3.6	6

81	The Importance of Coupling Agent on Tensile and Thermomechanical Performance of Annealed Composites Based on Poly(Lactic Acid)/Poly(Methyl Methacrylate) Matrix and Sisal Fiber Bundles. 1-11			1
80	Demonstrating an ideal compostable plastic using biodegradability kinetics of poly(lactic acid) (PLA) based green biocomposite films under aerobic composting conditions. 2021 , 3, 100030			3
79	A Review of Bioplastics and Their Adoption in the Circular Economy. <i>Polymers</i> , 2021 , 13,	4.5		45
78	End-of-Life Options for (Bio)degradable Polymers in the Circular Economy. <i>Advances in Polymer Technology</i> , 2021 , 2021, 1-18	1.9		10
77	Bacteriostatic Behavior of PLA-BaTiO Composite Fibers Synthesized by Centrifugal Spinning and Subjected to Aging Test. <i>Molecules</i> , 2021 , 26,	4.8		7
76	The Chemical Recycling of Polyesters for a Circular Plastics Economy: Challenges and Emerging Opportunities. <i>ChemSusChem</i> , 2021 , 14, 4041-4070	8.3		40
75	Inspired by nature: Microbial production, degradation and valorization of biodegradable bioplastics for life-cycle-engineered products. <i>Biotechnology Advances</i> , 2021 , 53, 107772	17.8		10
74	Improving the sustainable performance of Biopolymers using nanotechnology. <i>Polymer-Plastics Technology and Materials</i> , 1-31	1.5		0
73	Effect of BaTiO ₃ on the aging process of PLA fibers obtained by centrifugal spinning. <i>Materials Today Chemistry</i> , 2021 , 20, 100461	6.2		2
72	Design and Control of Compostability in Synthetic Biopolyesters. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9151-9164	8.3		9
71	Effects of γ Radiation on structure and properties of poly(lactic acid) filaments. <i>Radiation Physics and Chemistry</i> , 2021 , 184, 109456	2.5		0
70	Organic recycling of post-consumer /industrial bio-based plastics through industrial aerobic composting and anaerobic digestion - Techno-economic sustainability criteria and indicators. <i>Polymer Degradation and Stability</i> , 2021 , 190, 109642	4.7		7
69	Biodegradable plastic as an integral part of the solution to plastic waste pollution of the environment. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 30, 100490	7.9		23
68	Effect of New Eco-Polyols Based on PLA Waste on the Basic Properties of Rigid Polyurethane and Polyurethane/Polyisocyanurate Foams. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3		2
67	Characterisation and Modelling of PLA Filaments and Evolution with Time. <i>Polymers</i> , 2021 , 13,	4.5		2
66	Preparation and properties of star-shaped UV-curable polyester methacrylate resins with Low viscosity derived from renewable resources. <i>Progress in Organic Coatings</i> , 2021 , 157, 106324	4.8		1
65	Study on the properties of composite superabsorbent resin doped with starch and cellulose. <i>Journal of Polymer Engineering</i> , 2021 ,	1.4		0
64	The role of waste management in reducing bioplastics' leakage into the environment: A review. <i>Bioresource Technology</i> , 2021 , 337, 125459	11		16

63	Characterization of degradation behavior of poly(glycerol maleate) films in various aqueous environments. <i>Polymer Degradation and Stability</i> , 2021 , 183, 109441	4.7	5
62	Green Adhesives for Biomedical Applications. 2020 , 85-120		1
61	A Review to Guide Eco-Design of Reactive Polymer-Based Materials. 2020 , 207-241		1
60	Compostable Polymeric Ecomaterials: Environment-Friendly Waste Management Alternative to Landfills. 2019 , 2733-2764		1
59	Fabrication of PLA-HAp-CS Based Biocompatible and Biodegradable Feedstock Filament Using Twin Screw Extrusion. 2019 , 325-345		10
58	Degradable Polymers. 2327-2349		3
57	Biodegradation Properties of Poly (Lactic) Acid Reinforced by Kenaf Fibers. <i>Acta Physica Polonica A</i> , 2016 , 129, 835-837	0.6	3
56	Biodegradable Polymers for Food Packing [Factors Influencing their Degradation and Certification Types] a Comprehensive Review. <i>Chemistry and Chemical Technology</i> , 2011 , 5, 115-122	0.9	19
55	UV Protective, Antioxidant, Antibacterial and Compostable Polylactic Acid Composites Containing Pristine and Chemically Modified Lignin Nanoparticles. <i>Molecules</i> , 2020 , 26,	4.8	15
54	Progress of Disintegration of Polylactide (PLA)/Poly(Butylene Succinate) (PBS) Blends Containing Talc and Chalk Inorganic Fillers under Industrial Composting Conditions. <i>Polymers</i> , 2020 , 13,	4.5	8
53	Life cycle assessment (LCA) of PET and PLA bottles for the packaging of fresh pasteurised milk: The role of the manufacturing process and the disposal scenario. <i>Packaging Technology and Science</i> ,	2.3	0
52	A review of trends in the development of bionanocomposites from lignocellulosic and polyacids biomolecules as packing material making alternative: A bibliometric analysis. <i>International Journal of Biological Macromolecules</i> , 2021 , 192, 832-868	7.9	0
51	Monitoring of Heavy Metals Migrated from Polylactide (PLA) Food Contact Materials in Korea. <i>Hanjug Sigpum Wisaeng Anjeonseong Haghoeji</i> , 2018 , 33, 102-109	0.4	
50	A Patent: Innovation in the Bottle and Environmental Approach for Liquid Packaging Material. <i>Global Journal of Agricultural Innovation Research & Development</i> , 2018 , 4, 30-35	0	
49	Cellulose Nanocrystals in Food Packaging. 2019 , 474-486		
48	Nano-biodegradation of polymers. 2022 , 213-238		1
47	Development and characterization of biopolymers films mechanically reinforced with garlic skin waste for fabrication of compostable dishes. <i>Food Hydrocolloids</i> , 2022 , 124, 107252	10.6	3
46	Advances in development of biodegradable food packaging material from agricultural and agro-industry waste. <i>Journal of Food Process Engineering</i> , e13930	2.4	0

45	Effects of Modified Thermoplastic Starch on Crystallization Kinetics and Barrier Properties of PLA. <i>Polymers</i> , 2021 , 13,	4.5	2
44	Assessment of Petroleum-Based Plastic and Bioplastics Degradation Using Anaerobic Digestion. <i>Sustainability</i> , 2021 , 13, 13295	3.6	5
43	Rigid and film bioplastics degradation under suboptimal composting conditions: A kinetic study. <i>Waste Management and Research</i> , 2021 , 734242X211063731	4	1
42	Two Birds with One Stone: Bioplastics and Food Waste Anaerobic Co-Digestion. <i>Environments - MDPI</i> , 2022 , 9, 9	3.2	4
41	Biotechnological Aspects and Mathematical Modeling of the Biodegradation of Plastics under Controlled Conditions.. <i>Polymers</i> , 2022 , 14,	4.5	4
40	Biodegradation and water absorption studies of natural gum rosin-based hydrogel. 2022 , 93-108		
39	Multiple recycling of a PLA / PHB biopolymer blend for sustainable packaging applications: Rheology-morphology, thermal, and mechanical performance analysis. <i>Polymer Engineering and Science</i> ,	2.3	0
38	Thermoplastic matrix-based composites produced by resin transfer molding: A review. <i>Polymer Composites</i> ,	3	2
37	The role of (bio)degradability on the management of petrochemical and bio-based plastic waste.. <i>Journal of Environmental Management</i> , 2022 , 310, 114769	7.9	2
36	A review of bioplastics at end-of-life: Linking experimental biodegradation studies and life cycle impact assessments. <i>Resources, Conservation and Recycling</i> , 2022 , 181, 106236	11.9	1
35	Hydrogel-based triboelectric nanogenerators: Properties, performance, and applications. <i>International Journal of Energy Research</i> , 2022 , 46, 5603-5624	4.5	2
34	Artificial Ageing, Chemical Resistance, and Biodegradation of Biocomposites from Poly(Butylene Succinate) and Wheat Bran.. <i>Materials</i> , 2021 , 14,	3.5	3
33	Systems Based on Biobased Thermoplastics: From Bioresources to Biodegradable Packaging Applications. <i>Polymer Reviews</i> , 1-69	14	1
32	A Comparative Study on the Aerobic Biodegradation of the Biopolymer Blends of Poly(butylene succinate), Poly(butylene adipate terephthalate) and Poly(lactic acid).. <i>Polymers</i> , 2022 , 14,	4.5	0
31	Degradation of polylactic acid and polylactic acid/natural rubber blown films in aquatic environment. <i>Journal of Polymer Research</i> , 2022 , 29,	2.7	1
30	Biodegradation of 3D-Printed Biodegradable/Non-biodegradable Plastic Blends. <i>ACS Applied Polymer Materials</i> ,	4.3	0
29	A comprehensive review on recent advancements in biodegradation and sustainable management of biopolymers. <i>Environmental Pollution</i> , 2022 , 307, 119600	9.3	3
28	Free-Radical Photopolymerization for Curing Products for Refinish Coatings Market. <i>Polymers</i> , 2022 , 14, 2856	4.5	4

27	Slow release of copper from jellyfish-based hydrogels for soil enrichment. 2022 , 27, 100417	
26	Preparation and Characterisation of Wood Polymer Composites Using Sustainable Raw Materials. 2022 , 14, 3183	3
25	Isolation of a <i>Nocardiopsis chromatogenes</i> strain that degrades PLA (polylactic acid) in pig waste-based compost. 2022 , 204,	0
24	Synthesis and characterization of novel potentially biodegradable aromatic polyesters consisting of divanillic acids with free phenolic hydroxyl groups. 2022 , 257, 125241	0
23	Comparative degradation study of a biodegradable composite based on polylactide with halloysite nanotubes and a polyacrylic acid copolymer. 2022 , 33, 104400	0
22	Mechanical Property Degradation of Polylactic Acid (PLA) 3D Printed Parts under Ultraviolet Radiation. 2022 , 26-33	0
21	Biodegradation Versus Composting. 2022 , 1-34	0
20	The crystalline behavior of poly(L-lactide) induced by nucleating agents with amide structure: The effect of benzamide molecule symmetry.	0
19	One-Pot Reactive Melt Recycling of PLA Post-Consumer Waste for the Production of Block Copolymer Nanocomposites of High Strength and Ductility. 2022 , 14, 3642	0
18	Enabling resource circularity through thermo-catalytic and solvent-based conversion of waste plastics. 2022 ,	0
17	End-of-life biodegradation? how to assess the composting of polyesters in the lab and the field. 2022 , 154, 36-48	1
16	Synthetic (bio)degradable polymers ¶when does recycling fail?.	0
15	Biodegradation of Biodegradable Polymers in Mesophilic Aerobic Environments. 2022 , 23, 12165	4
14	Biodegradable biopolymers for active packaging: demand, development and directions.	2
13	A novel approach to the impact modification of PLA. 2023 , 277, 108950	1
12	Sugar-Core Synthesized Multibranched Polylactic Acid and Its Diacrylate Blends as a UV LED-Curable Coating with Enhanced Toughness and Performance. 2022 , 10, 17027-17042	1
11	A road map on synthetic strategies and applications of biodegradable polymers.	0
10	3D printing of polylactic acid: recent advances and opportunities.	2

- 9 Synthesis of Polyethylene Glycol-9,10-dihydroxy Monostearate as Palm Oil-Based Polyol and Its Application on the Preparation of Poly(lactic acid)/Polyurethane Block Copolymer. **2022**, 64, 755-764 ○
- 8 Degradation of thermoplastic cellulose acetate-based bioplastics by full-scale experimentation of industrial anaerobic digestion and composting. **2023**, 462, 142301 ○
- 7 Assessing bioplastics biodegradability by standard and research methods: Current trends and open issues. **2023**, 11, 109424 ○
- 6 Biodegradation of Different Types of Bioplastics through Composting: A Recent Trend in Green Recycling. **2023**, 13, 294 1
- 5 Eco-Friendly Hierarchical Nanoporous Microfiber Respirator Filters Fabricated Using Rotary Jet Spinning Technology (RJS). **2023**, 5, 1657-1669 ○
- 4 Biodegradation Versus Composting. **2023**, 1275-1306 ○
- 3 Physical, Mechanical, and Structural Properties of the Polylactide and Polybutylene Adipate Terephthalate (PBAT)-Based Biodegradable Polymer during Compost Storage. **2023**, 15, 1619 ○
- 2 Biodégradabilité des plastiques biosourcés: revue bibliographique sur l'acide polylactique. **2022**, 110, 604 ○
- 1 Complex study of bioplastics: Degradation in soil and characterization by FTIR-ATR and FTIR-TGA methods. **2023**, 274, 127320 ○