

Luc Avrous

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

252
papers

14,149
citations

57
h-index

113
g-index

270
ext. papers

16,144
ext. citations

6.4
avg, IF

7.27
L-index

#	Paper	IF	Citations
252	Dihydrolevoglucosenone (Cyrene) as a versatile biobased solvent for lignin fractionation, processing, and chemistry. <i>Green Chemistry</i> , 2022 , 24, 338-349	10	4
251	Biobased vitrimers: Towards sustainable and adaptable performing polymer materials. <i>Progress in Polymer Science</i> , 2022 , 127, 101515	29.6	11
250	Study of the water sorption and barrier performances of potato starch nano-biocomposites based on halloysite nanotubes. <i>Carbohydrate Polymers</i> , 2022 , 277, 118805	10.3	0
249	Influence of the Macromolecular architecture on the properties of biobased polyurethane tissue adhesives. <i>European Polymer Journal</i> , 2022 , 164, 110968	5.2	1
248	Scalable single-step synthesis of lignin-based liquid polyols with ethylene carbonate for polyurethane foams. <i>Materials Today Chemistry</i> , 2022 , 24, 100793	6.2	5
247	Green Recycling Process for Polyurethane Foams by a Chem-Biotech Approach. <i>ChemSusChem</i> , 2021 , 14, 4234-4241	8.3	5
246	Aza-Michael Reaction as a Greener, Safer, and More Sustainable Approach to Biobased Polyurethane Thermosets. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4872-4884	8.3	7
245	Synthesis and characterization of renewable polyurethane foams using different biobased polyols from olive oil. <i>European Polymer Journal</i> , 2021 , 149, 110363	5.2	6
244	Fabrication and properties of alginate-hydroxyapatite biocomposites as efficient biomaterials for bone regeneration. <i>European Polymer Journal</i> , 2021 , 151, 110444	5.2	4
243	Green and controlled synthesis of short diol oligomers from polyhydroxyalkanoate to develop fully biobased thermoplastics. <i>European Polymer Journal</i> , 2021 , 153, 110531	5.2	2
242	Towards bio-upcycling of polyethylene terephthalate. <i>Metabolic Engineering</i> , 2021 , 66, 167-178	9.7	42
241	Isolation of Low Dispersity Fractions of Acetone Organosolv Lignins to Understand their Reactivity: Towards Aromatic Building Blocks for Polymers Synthesis. <i>ChemSusChem</i> , 2021 , 14, 387-397	8.3	7
240	Biobased polyurethanes for biomedical applications. <i>Bioactive Materials</i> , 2021 , 6, 1083-1106	16.7	55
239	Melt processing of nanocomposites of cellulose nanocrystals with biobased thermoplastic polyurethane. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50343	2.9	4
238	Click chemistry for the synthesis of biobased polymers and networks derived from vegetable oils. <i>Green Chemistry</i> , 2021 , 23, 4296-4327	10	10
237	From Lab to Market: Current Strategies for the Production of Biobased Polyols. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10664-10677	8.3	18
236	Structure-properties relationships of cellular materials from biobased polyurethane foams. <i>Materials Science and Engineering Reports</i> , 2021 , 145, 100608	30.9	20

235	Breakthrough in polyurethane bio-recycling: An efficient laccase-mediated system for the degradation of different types of polyurethanes. <i>Waste Management</i> , 2021 , 132, 23-30	8.6	9
234	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. <i>Environmental Sciences Europe</i> , 2021 , 33, 99	5	10
233	Lipase-catalyzed synthesis of furan-based aliphatic-aromatic biobased copolyesters: Impact of the solvent. <i>European Polymer Journal</i> , 2021 , 159, 110717	5.2	4
232	Characterization of the enzymatic degradation of polyurethanes. <i>Methods in Enzymology</i> , 2021 , 648, 317-336	1.7	1
231	Wood-polymer composites and nanocomposites: Building and reconstruction materials of the future 2021 , 617-632		1
230	Oxazolidone formation: myth or fact? The case of biobased polyurethane foams from different epoxidized triglycerides. <i>Polymer Chemistry</i> , 2021 , 12, 3004-3014	4.9	0
229	Network Design to Control Polyimine Vitrimer Properties: Physical Versus Chemical Approach. <i>Macromolecules</i> , 2020 , 53, 3796-3805	5.5	52
228	Morphology and properties of thermoplastic starch blended with biodegradable polyester and filled with halloysite nanoclay. <i>Carbohydrate Polymers</i> , 2020 , 242, 116392	10.3	15
227	Optimized Bioproduction of Itaconic and Fumaric Acids Based on Solid-State Fermentation of Lignocellulosic Biomass. <i>Molecules</i> , 2020 , 25,	4.8	13
226	Synthesis and behavior of responsive biobased polyurethane networks cross-linked by click chemistry: Effect of the cross-linkers and backbone structures. <i>European Polymer Journal</i> , 2020 , 135, 109840	5.2	6
225	Dynamic network based on eugenol-derived epoxy as promising sustainable thermoset materials. <i>European Polymer Journal</i> , 2020 , 135, 109860	5.2	20
224	Mild and controlled lignin methylation with trimethyl phosphate: towards a precise control of lignin functionality. <i>Green Chemistry</i> , 2020 , 22, 1671-1680	10	11
223	Biological properties of novel polysuccinimide derivatives synthesized via quaternary ammonium grafting. <i>European Polymer Journal</i> , 2020 , 131, 109705	5.2	9
222	Evaluation of biological degradation of polyurethanes. <i>Biotechnology Advances</i> , 2020 , 39, 107457	17.8	61
221	Renewable Responsive Systems Based on Original Click and Polyurethane Cross-Linked Architectures with Advanced Properties. <i>ChemSusChem</i> , 2020 , 13, 238-251	8.3	12
220	Renewable and Responsive Cross-Linked Systems Based on Polyurethane Backbones from Clickable Biobased Bismaleimide Architecture. <i>Macromolecules</i> , 2020 , 53, 5869-5880	5.5	17
219	Biobased Polyurethanes. <i>Proceedings (mdpi)</i> , 2020 , 57, 80	0.3	
218	Biobased Polyurethane Foams Based on New Polyol Architectures from Microalgae Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12187-12196	8.3	17

217	Production and characterization of two medium-chain-length polyhydroxyalkanoates by engineered strains of <i>Yarrowia lipolytica</i> . <i>Microbial Cell Factories</i> , 2019 , 18, 99	6.4	30
216	Nanocomposite foams based on flexible biobased thermoplastic polyurethane and ZnO nanoparticles as potential wound dressing materials. <i>Materials Science and Engineering C</i> , 2019 , 104, 109893	8.3	35
215	From the Synthesis of Biobased Cyclic Carbonate to Polyhydroxyurethanes: A Promising Route towards Renewable Non-Isocyanate Polyurethanes. <i>ChemSusChem</i> , 2019 , 12, 3410-3430	8.3	101
214	EDC-Mediated Grafting of Quaternary Ammonium Salts onto Chitosan for Antibacterial and Thermal Properties Improvement. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1800530	2.6	7
213	Plastic Biodegradation: Challenges and Opportunities 2019 , 333-361		1
212	Synthesis and behavior of click cross-linked alginate hydrogels: Effect of cross-linker length and functionality. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 612-619	7.9	14
211	New Consolidants for the Conservation of Archeological Wood. <i>Cultural Heritage Science</i> , 2019 , 65-77	1.4	1
210	A fully bio-based polyimine vitrimer derived from fructose. <i>Green Chemistry</i> , 2019 , 21, 1596-1601	10	104
209	New Insight on the Study of the Kinetic of Biobased Polyurethanes Synthesis Based on Oleo-Chemistry. <i>Molecules</i> , 2019 , 24,	4.8	8
208	Enzymatic recycling of thermoplastic polyurethanes: Synergistic effect of an esterase and an amidase and recovery of building blocks. <i>Waste Management</i> , 2019 , 85, 141-150	8.6	57
207	Recent developments in the conservation of materials properties of historical wood. <i>Progress in Materials Science</i> , 2019 , 102, 167-221	42.2	40
206	Isolation and characterization of different promising fungi for biological waste management of polyurethanes. <i>Microbial Biotechnology</i> , 2019 , 12, 544-555	6.3	39
205	Calcium phosphates grown on bacterial cellulose template. <i>Ceramics International</i> , 2018 , 44, 9433-9441	5.1	20
204	Synthesis and evaluation of functional alginate hydrogels based on click chemistry for drug delivery applications. <i>Carbohydrate Polymers</i> , 2018 , 190, 271-280	10.3	77
203	Plastic Biodegradation: Challenges and Opportunities 2018 , 1-29		20
202	Elaboration and Characterization of Advanced Biobased Polyurethane Foams Presenting Anisotropic Behavior. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700501	3.9	10
201	Novel Rigid Polyisocyanurate Foams from Synthesized Biobased Polyester Polyol with Enhanced Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6577-6589	8.3	18
200	Elaboration and Properties of Innovative Biobased PUIR Foams from Microalgae. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 254-262	4.5	12

199	Renewable polyols for advanced polyurethane foams from diverse biomass resources. <i>Polymer Chemistry</i> , 2018 , 9, 4258-4287	4.9	90
198	Functional Biocomposites Based on Plasticized Starch/halloysite Nanotubes for Drug-Release Applications. <i>Starch/Staerke</i> , 2018 , 70, 1700358	2.3	8
197	From D-sorbitol to five-membered bis(cyclo-carbonate) as a platform molecule for the synthesis of different original biobased chemicals and polymers. <i>Scientific Reports</i> , 2018 , 8, 9134	4.9	24
196	Original Macromolecular Architectures Based on poly(ϵ -caprolactone) and poly(ϵ -thiocaprolactone) Grafted onto Chitosan Backbone. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	5
195	Nanocomposites based on renewable thermoplastic polyurethane and chemically modified cellulose nanocrystals with improved mechanical properties. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46736	2.9	8
194	Preparation and Characterization of Thermoplastic Potato Starch/Halloysite Nano-Biocomposites: Effect of Plasticizer Nature and Nanoclay Content. <i>Polymers</i> , 2018 , 10,	4.5	32
193	Enzymatic Synthesis of Amino Acids Endcapped Polycaprolactone: A Green Route Towards Functional Polyesters. <i>Molecules</i> , 2018 , 23,	4.8	7
192	Starch/graphene hydrogels via click chemistry with relevant electrical and antibacterial properties. <i>Carbohydrate Polymers</i> , 2018 , 202, 372-381	10.3	36
191	Biotic and Abiotic Synthesis of Renewable Aliphatic Polyesters from Short Building Blocks Obtained from Biotechnology. <i>ChemSusChem</i> , 2018 , 11, 3836-3870	8.3	24
190	Clicking Biobased Polyphenols: A Sustainable Platform for Aromatic Polymeric Materials. <i>ChemSusChem</i> , 2018 , 11, 2472-2491	8.3	18
189	Enzymatic synthesis of poly(ϵ -caprolactone- co - ϵ -thiocaprolactone). <i>European Polymer Journal</i> , 2017 , 87, 147-158	5.2	26
188	Tailoring the Structure, Morphology, and Crystallization of Isodimorphic Poly(butylene succinate-ran-butylene adipate) Random Copolymers by Changing Composition and Thermal History. <i>Macromolecules</i> , 2017 , 50, 597-608	5.5	46
187	The study of the pseudo-polyrotaxane architecture as a route for mild surface functionalization by click chemistry of poly(ϵ -caprolactone)-based electrospun fibers. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2181-2189	7.3	9
186	Titanium-catalyzed transesterification as a route to the synthesis of fully biobased poly(3-hydroxybutyrate- co -butylene dicarboxylate) copolyesters, from their homopolyesters. <i>European Polymer Journal</i> , 2017 , 90, 92-104	5.2	8
185	Renewable biocomposites based on cellulose fibers and dimer fatty acid polyamide: Experiments and modeling of the stress-strain behavior. <i>Polymer Engineering and Science</i> , 2017 , 57, 95-104	2.3	10
184	Solvent- and Halogen-Free Modification of Biobased Polyphenols to Introduce Vinyl Groups: Versatile Aromatic Building Blocks for Polymer Synthesis. <i>ChemSusChem</i> , 2017 , 10, 1813-1822	8.3	13
183	Original method for synthesis of chitosan-based antimicrobial agent by quaternary ammonium grafting. <i>Carbohydrate Polymers</i> , 2017 , 157, 1922-1932	10.3	49
182	Enzymatic synthesis of biobased poly(1,4-butylene succinate-ran-2,3-butylene succinate) copolyesters and characterization. Influence of 1,4- and 2,3-butanediol contents. <i>European Polymer Journal</i> , 2017 , 93, 103-115	5.2	10

181	Synthesis and characterization of fully biobased poly(propylene succinate-ran-propylene adipate). Analysis of the architecture-dependent physicochemical behavior. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 2738-2748	2.5	6
180	Combined effect of nucleating agent and plasticizer on the crystallization behaviour of polylactide. <i>Polymer Bulletin</i> , 2017 , 74, 4857-4886	2.4	18
179	Synthesis and characterization of block poly(ester-ether-urethane)s from bacterial poly(3-hydroxybutyrate) oligomers. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1949-1961	2.5	16
178	Lignin-Based Materials Through Thiol-Maleimide "Click" Polymerization. <i>ChemSusChem</i> , 2017 , 10, 984-992	2.3	30
177	Innovative plasticized alginate obtained by thermo-mechanical mixing: Effect of different biobased polyols systems. <i>Carbohydrate Polymers</i> , 2017 , 157, 669-676	10.3	22
176	Biobased and Aromatic Reversible Thermoset Networks from Condensed Tannins via the Diels-Alder Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1199-1207	8.3	62
175	Synthesis and characterization of biobased poly(butylene succinate-ran-butylene adipate). Analysis of the composition-dependent physicochemical properties. <i>European Polymer Journal</i> , 2017 , 87, 84-98	5.2	37
174	Synthesis and characterization of polyurethane foams derived of fully renewable polyester polyols from sorbitol. <i>European Polymer Journal</i> , 2017 , 97, 319-327	5.2	24
173	Lipase-catalyzed synthesis of biobased and biodegradable aliphatic copolyesters from short building blocks. Effect of the monomer length. <i>European Polymer Journal</i> , 2017 , 97, 328-337	5.2	12
172	Cyclic Carbonates as Safe and Versatile Etherifying Reagents for the Functionalization of Lignins and Tannins. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7334-7343	8.3	56
171	Thermally healable and remendable lignin-based materials through Diels-Alder click polymerization. <i>Polymer</i> , 2017 , 133, 78-88	3.9	41
170	Study on the structure-properties relationship of biodegradable and biobased aliphatic copolyesters based on 1,3-propanediol, 1,4-butanediol, succinic and adipic acids. <i>Polymer</i> , 2017 , 122, 105-116	3.9	27
169	Effect of TiO ₂ nanoparticles on the properties of thermoplastic chitosan-based nano-biocomposites obtained by mechanical kneading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 93, 33-40	8.4	39
168	Sepiolite as a promising nanoclay for nano-biocomposites based on starch and biodegradable polyester. <i>Materials Science and Engineering C</i> , 2017 , 70, 296-302	8.3	53
167	Properties of glycerol-plasticized alginate films obtained by thermo-mechanical mixing. <i>Food Hydrocolloids</i> , 2017 , 63, 414-420	10.6	84
166	Thermomechanical and cyclic behavior of biocomposites based on renewable thermoplastics from dimer fatty acids. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	8
165	Fungal Fermentation of Lignocellulosic Biomass for Itaconic and Fumaric Acid Production. <i>Journal of Microbiology and Biotechnology</i> , 2017 , 27, 1-8	3.3	23
164	Elaboration and behavior of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)- nano-biocomposites based on montmorillonite or sepiolite nanoclays. <i>European Polymer Journal</i> , 2016 , 81, 64-76	5.2	11

163	New Insights on the Chemical Modification of Lignin: Acetylation versus Silylation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5212-5222	8.3	59
162	Towards Biobased Aromatic Polymers from Lignins 2016 , 385-436		4
161	Tannins: A Resource to Elaborate Aromatic and Biobased Polymers 2016 , 97-148		5
160	Characteristics and Applications of PLA 2016 , 171-224		5
159	Synthesis of potentially biobased copolyesters based on adipic acid and butanediols: Kinetic study between 1,4- and 2,3-butanediol and their influence on crystallization and thermal properties. <i>Polymer</i> , 2016 , 99, 204-213	3.9	31
158	Enzymatic Synthesis of a Bio-Based Copolyester from Poly(butylene succinate) and Poly((R)-3-hydroxybutyrate): Study of Reaction Parameters on the Transesterification Rate. <i>Biomacromolecules</i> , 2016 , 17, 4054-4063	6.9	30
157	PBS Makes its Entrance into the Family of Biobased Plastics 2016 , 225-285		15
156	Synthesis and characterization of advanced biobased thermoplastic nonisocyanate polyurethanes, with controlled aromatic-aliphatic architectures. <i>European Polymer Journal</i> , 2016 , 84, 759-769	5.2	45
155	Morphological, thermal, and mechanical properties of poly(ε-caprolactone)/poly(ε-caprolactone)-grafted-cellulose nanocrystals mats produced by electrospinning. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	36
154	Biocomposites based on chemically modified cellulose fibers with renewable fatty-acid-based thermoplastic systems: Effect of different fiber treatments. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	16
153	Characterization and Physicochemical Properties of Condensed Tannins from Acacia catechu. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 1751-60	5.7	39
152	Itaconic and Fumaric Acid Production from Biomass Hydrolysates by <i>Aspergillus</i> Strains. <i>Journal of Microbiology and Biotechnology</i> , 2016 , 26, 1557-65	3.3	27
151	Nanoclays for Lipase Immobilization: Biocatalyst Characterization and Activity in Polyester Synthesis. <i>Polymers</i> , 2016 , 8,	4.5	18
150	Renewable thermoplastic multiphase systems from dimer fatty acids, with mineral microfillers. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	6
149	Novel multiphase systems based on thermoplastic chitosan: Analysis of the structure-properties relationships 2016 ,		3
148	Advanced biobased and rigid foams, based on urethane-modified isocyanurate from oxypropylated gambier tannin polyol. <i>Polymer Degradation and Stability</i> , 2016 , 132, 62-68	4.7	25
147	Oxyalkylation of Condensed Tannin with Propylene Carbonate as an Alternative to Propylene Oxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3103-3112	8.3	34
146	2016 ,		13

145	Chemical modification of tannins to elaborate aromatic biobased macromolecular architectures. <i>Green Chemistry</i> , 2015 , 17, 2626-2646	10	178
144	Poly (butylene adipate-co-terephthalate)/hydroxyapatite composite structures for bone tissue recovery. <i>Polymer Degradation and Stability</i> , 2015 , 120, 61-69	4.7	37
143	Mixed systems to assist enzymatic ring opening polymerization of lactide stereoisomers. <i>RSC Advances</i> , 2015 , 5, 84627-84635	3.7	20
142	Star-pseudopolyrotaxane organized in nanoplatelets for poly(ϵ -caprolactone)-based nanofibrous scaffolds with enhanced surface reactivity. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 292-7	4.8	13
141	Elaboration, morphology and properties of starch/polyester nano-biocomposites based on sepiolite clay. <i>Carbohydrate Polymers</i> , 2015 , 118, 250-6	10.3	60
140	Nucleation, Crystallization, and Thermal Fractionation of Poly (ϵ -Caprolactone)-Grafted-Lignin: Effects of Grafted Chains Length and Lignin Content. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1736-1750	2.6	32
139	Effect of Oligo-Hydroxyalkanoates on Poly(3-Hydroxybutyrate-co-4-Hydroxybutyrate)-Based Systems. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 661-666	3.9	8
138	Mechanical performance of starch-based biocomposites 2015 , 53-92		2
137	Oxyalkylation of gambier tannin. Synthesis and characterization of ensuing biobased polyols. <i>Industrial Crops and Products</i> , 2015 , 67, 295-304	5.9	37
136	Solvent- and catalyst-free synthesis of fully biobased nonisocyanate polyurethanes with different macromolecular architectures. <i>RSC Advances</i> , 2015 , 5, 100390-100400	3.7	40
135	Elaboration, morphology and properties of renewable thermoplastics blends, based on polyamide and polyurethane synthesized from dimer fatty acids. <i>European Polymer Journal</i> , 2015 , 67, 418-427	5.2	34
134	Enzymatic ring-opening (co)polymerization of lactide stereoisomers catalyzed by lipases. Toward the in situ synthesis of organic/inorganic nanohybrids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 115, 20-28		20
133	Advanced Nano-biocomposites Based on Starch 2015 , 1467-1553		3
132	Chemical modification of lignins: Towards biobased polymers. <i>Progress in Polymer Science</i> , 2014 , 39, 1266-1290	10.1140	
131	Original biobased nonisocyanate polyurethanes: solvent- and catalyst-free synthesis, thermal properties and rheological behaviour. <i>RSC Advances</i> , 2014 , 4, 54018-54025	3.7	88
130	Synthesis, structure and properties of fully biobased thermoplastic polyurethanes, obtained from a diisocyanate based on modified dimer fatty acids, and different renewable diols. <i>European Polymer Journal</i> , 2014 , 61, 197-205	5.2	70
129	Original polyols based on organosolv lignin and fatty acids: new bio-based building blocks for segmented polyurethane synthesis. <i>Green Chemistry</i> , 2014 , 16, 3958-3970	10	100
128	Elaboration and properties of novel biobased nanocomposites with halloysite nanotubes and thermoplastic polyurethane from dimerized fatty acids. <i>Polymer</i> , 2014 , 55, 5226-5234	3.9	38

127	Elaboration and Characterization of Coaxial Electrospun Poly(ϵ -Caprolactone)/Gelatin Nanofibers for Biomedical Applications. <i>Advances in Polymer Technology</i> , 2014 , 33, n/a-n/a	1.9	8
126	Differentiation of human adipose-derived stem cells seeded on mineralized electrospun co-axial poly(ϵ -caprolactone) (PCL)/gelatin nanofibers. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1137-48	4.5	33
125	Formulation and Development of Biodegradable and Bio-Based Multiphase Materials: Plasticized Starch-Based Materials 2014 , 155-199		
124	Advanced Nano-biocomposites Based on Starch 2014 , 1-75		12
123	Nanobiocomposites Based on Plasticized Starch 2014 , 211-239		6
122	Synthesis and characterization of fully biobased aromatic polyols [oxybutylation of condensed tannins towards new macromolecular architectures. <i>RSC Advances</i> , 2014 , 4, 61564-61572	3.7	25
121	Starch Polymers: From the Field to Industrial Products 2014 , 3-10		15
120	Lipase catalyzed synthesis of polycaprolactone and clay-based nanohybrids. <i>Polymer</i> , 2014 , 55, 1648-1655	5.9	25
119	CHAPTER 6: Polyhydroxyalkanoate-based Multiphase Materials. <i>RSC Green Chemistry</i> , 2014 , 119-140	0.9	1
118	Synthesis, thermal properties, rheological and mechanical behaviors of lignins-grafted-poly(ϵ -caprolactone). <i>Polymer</i> , 2013 , 54, 3882-3890	3.9	57
117	Crystallinity study of nano-biocomposites based on plasticized poly(hydroxybutyrate-co-hydroxyvalerate) with organo-modified montmorillonite. <i>Polymer Testing</i> , 2013 , 32, 1253-1260	4.5	19
116	On the heterogeneous composition of bacterial polyhydroxyalkanoate terpolymers. <i>Bioresource Technology</i> , 2013 , 147, 434-441	11	8
115	Plasma-polymer coatings onto different biodegradable polyesters surfaces. <i>European Polymer Journal</i> , 2013 , 49, 882-892	5.2	17
114	Glycerol plasticised chitosan: A study of biodegradation via carbon dioxide evolution and nuclear magnetic resonance. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1236-1246	4.7	22
113	Synthesis, Properties, Environmental and Biomedical Applications of Polylactic Acid 2013 , 171-188		10
112	Nonisothermal crystallization kinetics of poly(lactide) Effect of plasticizers and nucleating agent. <i>Polymer Engineering and Science</i> , 2013 , 53, 1085-1098	2.3	37
111	Macro-, Micro-, and Nanocomposites Based on Biodegradable Polymers 2013 , 173-210		1
110	Elaboration and properties of plasticised chitosan-based exfoliated nano-biocomposites. <i>Polymer</i> , 2013 , 54, 3654-3662	3.9	42

109	Starch-based nano-biocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1590-1628	29.6	376
108	Innovative thermoplastic chitosan obtained by thermo-mechanical mixing with polyol plasticizers. <i>Carbohydrate Polymers</i> , 2013 , 95, 241-51	10.3	96
107	Growth rate, morphology, chemical composition and oligomerization state of plasma polymer films made from acrylic and methacrylic acid under dielectric barrier discharge. <i>Reactive and Functional Polymers</i> , 2012 , 72, 341-348	4.6	21
106	Rheology to understand and optimize processibility, structures and properties of starch polymeric materials. <i>Progress in Polymer Science</i> , 2012 , 37, 595-623	29.6	184
105	Design of Flexible Free Standing Plasma Polymer-Based Films As Hosts for Enzyme Immobilization. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21356-21365	3.8	8
104	Green Nano-Biocomposites. <i>Green Energy and Technology</i> , 2012 , 1-11	0.6	17
103	Clay Nano-Biocomposites Based on PBAT Aromatic Copolyesters. <i>Green Energy and Technology</i> , 2012 , 219-235	0.6	1
102	One step preparation of plasma based polymer films for drug release. <i>Materials Science and Engineering C</i> , 2012 , 32, 2103-2108	8.3	15
101	Biodegradable Polymers. <i>Green Energy and Technology</i> , 2012 , 13-39	0.6	98
100	Relationship between morphology, properties and degradation parameters of novative biobased thermoplastic polyurethanes obtained from dimer fatty acids. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1964-1969	4.7	79
99	Influence of the microstructure and mechanical strength of nanofibers of biodegradable polymers with hydroxyapatite in stem cells growth. Electrospinning, characterization and cell viability. <i>Polymer Degradation and Stability</i> , 2012 , 97, 2037-2051	4.7	39
98	Environmental Silicate Nano-Biocomposites. <i>Green Energy and Technology</i> , 2012 ,	0.6	70
97	Viabilidade celular de nanofibras de polímeros biodegradáveis e seus nanocompósitos com argila montmorilonita. <i>Polimeros</i> , 2012 , 22, 34-41	1.6	16
96	Effect of crystallization on barrier properties of formulated polylactide. <i>Polymer International</i> , 2012 , 61, 180-189	3.3	62
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