

Luc Avrous

List of Publications by Citations

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

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	Poly(lactic acid): plasticization and properties of biodegradable multiphase systems. <i>Polymer</i> , 2001 , 42, 6209-6219	3.9	1224
251	Chemical modification of lignins: Towards biobased polymers. <i>Progress in Polymer Science</i> , 2014 , 39, 1266-1290	11.40	1140
250	Nano-biocomposites: Biodegradable polyester/nanoclay systems. <i>Progress in Polymer Science</i> , 2009 , 34, 125-155	29.6	793
249	Biodegradable Multiphase Systems Based on Plasticized Starch: A Review. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2004 , 44, 231-274		516
248	Properties of thermoplastic blends: starch/polycaprolactone. <i>Polymer</i> , 2000 , 41, 4157-4167	3.9	438
247	Biocomposites based on plasticized starch: thermal and mechanical behaviours. <i>Carbohydrate Polymers</i> , 2004 , 56, 111-122	10.3	420
246	Starch-based nano-biocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1590-1628	29.6	376
245	Cellulose-Based Bio- and Nanocomposites: A Review. <i>International Journal of Polymer Science</i> , 2011 , 2011, 1-35	2.4	367
244	Antioxidant properties of lignin in polypropylene. <i>Polymer Degradation and Stability</i> , 2003 , 81, 9-18	4.7	304
243	Plasticized starch/cellulose interactions in polysaccharide composites. <i>Polymer</i> , 2001 , 42, 6565-6572	3.9	268
242	Progress in nano-biocomposites based on polysaccharides and nanoclays. <i>Materials Science and Engineering Reports</i> , 2009 , 67, 1-17	30.9	243
241	Mixed culture polyhydroxyalkanoate (PHA) production from volatile fatty acid (VFA)-rich streams: effect of substrate composition and feeding regime on PHA productivity, composition and properties. <i>Journal of Biotechnology</i> , 2011 , 151, 66-76	3.7	198
240	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
239	Chemical modification of tannins to elaborate aromatic biobased macromolecular architectures. <i>Green Chemistry</i> , 2015 , 17, 2626-2646	10	178
238	Polyurethanes Based on Castor Oil: Kinetics, Chemical, Mechanical and Thermal Properties. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 922-929	3.9	165
237	Properties of biocomposites based on lignocellulosic fillers. <i>Carbohydrate Polymers</i> , 2006 , 66, 480-493	10.3	161
236	Biocomposites based on plasticized starch. <i>Biofuels, Bioproducts and Biorefining</i> , 2009 , 3, 329-343	5.3	145

235	Structure and properties of glycerol-plasticized chitosan obtained by mechanical kneading. <i>Carbohydrate Polymers</i> , 2011 , 83, 947-952	10.3	140
234	Properties of Biodegradable Multilayer Films Based on Plasticized Wheat Starch. <i>Starch/Staerke</i> , 2001 , 53, 372	2.3	131
233	New approach to elaborate exfoliated starch-based nanobiocomposites. <i>Biomacromolecules</i> , 2008 , 9, 896-900	6.9	128
232	Aromatic Copolyester-based Nano-biocomposites: Elaboration, Structural Characterization and Properties. <i>Journal of Polymers and the Environment</i> , 2006 , 14, 393-401	4.5	127
231	Starch nano-biocomposites based on needle-like sepiolite clays. <i>Carbohydrate Polymers</i> , 2010 , 80, 145-153	5.3	125
230	Blends of thermoplastic starch and polyestamide: processing and properties. <i>Journal of Applied Polymer Science</i> , 2000 , 76, 1117-1128	2.9	124
229	Thermal and thermo-mechanical degradation of poly(3-hydroxybutyrate)-based multiphase systems. <i>Polymer Degradation and Stability</i> , 2008 , 93, 413-421	4.7	121
228	Association between plasticized starch and polyesters: Processing and performances of injected biodegradable systems. <i>Polymer Engineering and Science</i> , 2001 , 41, 727-734	2.3	116
227	Starch-based biodegradable blends: morphology and interface properties. <i>Polymer International</i> , 2004 , 53, 2115-2124	3.3	114
226	Starch-based nano-biocomposites: Plasticizer impact on the montmorillonite exfoliation process. <i>Carbohydrate Polymers</i> , 2010 , 79, 941-947	10.3	112
225	A fully bio-based polyimine vitrimer derived from fructose. <i>Green Chemistry</i> , 2019 , 21, 1596-1601	10	104
224	Properties of thermoplastic composites based on wheat-straw lignocellulosic fillers. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 428-436	2.9	102
223	Starch-Based Biodegradable Materials Suitable for Thermoforming Packaging. <i>Starch/Staerke</i> , 2001 , 53, 368	2.3	102
222	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
221	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
220	Biodegradable Polymers. <i>Green Energy and Technology</i> , 2012 , 13-39	0.6	98
219	Structure and Properties of PHA/Clay Nano-Biocomposites Prepared by Melt Intercalation. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1473-1484	2.6	98
218	Innovative thermoplastic chitosan obtained by thermo-mechanical mixing with polyol plasticizers. <i>Carbohydrate Polymers</i> , 2013 , 95, 241-51	10.3	96

217	Analysis of the Structure-Properties Relationships of Different Multiphase Systems Based on Plasticized Poly(Lactic Acid). <i>Journal of Polymers and the Environment</i> , 2011 , 19, 362-371	4.5	92
216	Renewable polyols for advanced polyurethane foams from diverse biomass resources. <i>Polymer Chemistry</i> , 2018 , 9, 4258-4287	4.9	90
215	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
214	Effect of clay organomodifiers on degradation of polyhydroxyalkanoates. <i>Polymer Degradation and Stability</i> , 2009 , 94, 789-796	4.7	87
213	Properties of glycerol-plasticized alginate films obtained by thermo-mechanical mixing. <i>Food Hydrocolloids</i> , 2017 , 63, 414-420	10.6	84
212	Effects of lignin content on the properties of lignocellulose-based biocomposites. <i>Carbohydrate Polymers</i> , 2006 , 66, 537-545	10.3	82
211	Poly(lactic Acid): Synthesis, Properties and Applications 2008 , 433-450		80
210	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
209	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
208	Biodegradable Blends Based on Starch and Poly(Lactic Acid): Comparison of Different Strategies and Estimate of Compatibilization. <i>Journal of Polymers and the Environment</i> , 2008 , 16, 286-297	4.5	77
207	How does water diffuse in starch/montmorillonite nano-biocomposite materials?. <i>Carbohydrate Polymers</i> , 2010 , 82, 128-135	10.3	74
206	Disruption of oxidation pathway in <i>Pseudomonas putida</i> KT2442 to produce new functionalized PHAs with thioester groups. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 1583-98	5.7	71
205	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
204	Environmental Silicate Nano-Biocomposites. <i>Green Energy and Technology</i> , 2012 ,	0.6	70
203	Dimer acid-based thermoplastic bio-polyamides: Reaction kinetics, properties and structure. <i>Polymer</i> , 2010 , 51, 5895-5902	3.9	70
202	In-line determination of plasticized wheat starch viscoelastic behavior: impact of processing. <i>Carbohydrate Polymers</i> , 2003 , 53, 169-182	10.3	63
201	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
200	Effect of crystallization on barrier properties of formulated polylactide. <i>Polymer International</i> , 2012 , 61, 180-189	3.3	62

199	Micromechanical modeling and characterization of the effective properties in starch-based nano-biocomposites. <i>Acta Biomaterialia</i> , 2008 , 4, 1707-14	10.8	61
198	Evaluation of biological degradation of polyurethanes. <i>Biotechnology Advances</i> , 2020 , 39, 107457	17.8	61
197	Elaboration, morphology and properties of starch/polyester nano-biocomposites based on sepiolite clay. <i>Carbohydrate Polymers</i> , 2015 , 118, 250-6	10.3	60
196	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
195	Synthesis, thermal properties, rheological and mechanical behaviors of lignins-grafted-poly(ε-caprolactone). <i>Polymer</i> , 2013 , 54, 3882-3890	3.9	57
194	Structure and properties of clay nano-biocomposites based on poly(lactic acid) plasticized with polyadipates. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 2206-2213	3.2	57
193	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
192	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
191	Biobased polyurethanes for biomedical applications. <i>Bioactive Materials</i> , 2021 , 6, 1083-1106	16.7	55
190	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
189	Network Design to Control Polyimine Vitriimer Properties: Physical Versus Chemical Approach. <i>Macromolecules</i> , 2020 , 53, 3796-3805	5.5	52
188	Structure and Morphology of New Bio-Based Thermoplastic Polyurethanes Obtained From Dimeric Fatty Acids. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 777-784	3.9	51
187	Original method for synthesis of chitosan-based antimicrobial agent by quaternary ammonium grafting. <i>Carbohydrate Polymers</i> , 2017 , 157, 1922-1932	10.3	49
186	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
185	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
184	Nonisothermal crystallization behavior of poly(butylene adipate-co-terephthalate)/clay nano-biocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1503-1510	2.6	45
183	2011 ,		44
182	Renewable biocomposites of dimer fatty acid-based polyamides with cellulose fibres: Thermal, physical and mechanical properties. <i>Composites Science and Technology</i> , 2010 , 70, 504-509	8.6	43

181	Elaboration and properties of plasticised chitosan-based exfoliated nano-biocomposites. <i>Polymer</i> , 2013 , 54, 3654-3662	3.9	42
180	Towards bio-upcycling of polyethylene terephthalate. <i>Metabolic Engineering</i> , 2021 , 66, 167-178	9.7	42
179	Thermally healable and remendable lignin-based materials through Diels Alder click polymerization. <i>Polymer</i> , 2017 , 133, 78-88	3.9	41
178	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
177	Recent developments in the conservation of materials properties of historical wood. <i>Progress in Materials Science</i> , 2019 , 102, 167-221	42.2	40
176	Characterization and Physicochemical Properties of Condensed Tannins from <i>Acacia catechu</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 1751-60	5.7	39
175	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
174	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
173	Isolation and characterization of different promising fungi for biological waste management of polyurethanes. <i>Microbial Biotechnology</i> , 2019 , 12, 544-555	6.3	39
172	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
171	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
170	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
169	Oxyalkylation of gambier tanninSynthesis and characterization of ensuing biobased polyols. <i>Industrial Crops and Products</i> , 2015 , 67, 295-304	5.9	37
168	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
167	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
166	Starch/graphene hydrogels via click chemistry with relevant electrical and antibacterial properties. <i>Carbohydrate Polymers</i> , 2018 , 202, 372-381	10.3	36
165	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
164	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

163	Correlation between Composition, Structure and Properties of Poly(lactic acid)/Polyadipate-Based Nano-Biocomposites. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 551-558	3.9	34
162	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
161	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
160	Elaboration and Characterization of Nano-Biocomposites Based on Plasticized Poly(Hydroxybutyrate-Co-Hydroxyvalerate) with Organo-Modified Montmorillonite. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 283-290	4.5	33
159	Evolution of the three-dimensional orientation distribution of glass fibers in injected isotactic polypropylene. <i>Polymer Engineering and Science</i> , 1997 , 37, 329-337	2.3	33
158	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
157	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
156	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
155	Processing and characterization of biodegradable polymer nanocomposites: detection of dispersion state. <i>Rheologica Acta</i> , 2008 , 47, 543-553	2.3	31
154	Lignin-Based Materials Through Thiol-Maleimide "Click" Polymerization. <i>ChemSusChem</i> , 2017 , 10, 984-992	3	30
153	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
152	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
151	Accelerated artificial ageing of new dimer fatty acid-based polyamides. <i>Polymer Degradation and Stability</i> , 2011 , 96, 1097-1103	4.7	30
150	Biorenewable nanocomposites. <i>MRS Bulletin</i> , 2011 , 36, 703-710	3.2	30
149	High strain rate behaviour of renewable biocomposites based on dimer fatty acid polyamides and cellulose fibres. <i>Composites Science and Technology</i> , 2011 , 71, 674-682	8.6	28
148	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
147	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
146	Enzymatic synthesis of poly(ϵ -caprolactone- co - ϵ -thiocaprolactone). <i>European Polymer Journal</i> , 2017 , 87, 147-158	5.2	26

145	Synthesis and characterization of fully biobased aromatic polyols by butylation of condensed tannins towards new macromolecular architectures. <i>RSC Advances</i> , 2014 , 4, 61564-61572	3.7	25
144	Lipase catalyzed synthesis of polycaprolactone and clay-based nanohybrids. <i>Polymer</i> , 2014 , 55, 1648-1655	3.9	25
143	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
142	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
141	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
140	Novative Biomaterials Based on Chitosan and Poly(ϵ -Caprolactone): Elaboration of Porous Structures. <i>Journal of Polymers and the Environment</i> , 2011 , 19, 819-826	4.5	24
139	Evaluation of starch-PE multilayers: Processing and properties. <i>Polymer Engineering and Science</i> , 2005 , 45, 217-224	2.3	24
138	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
137	Study of pseudo-multilayer structures based on starch-polycaprolactone extruded blends. <i>Polymer Engineering and Science</i> , 2009 , 49, 1177-1186	2.3	23
136	Characterization of Nano-Structured Poly(D,L-lactic acid) Nonwoven Mats Obtained from Different Solutions by Electrospinning. <i>Journal of Macromolecular Science - Physics</i> , 2009 , 48, 1222-1240	1.4	23
135	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
134	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
133	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
132	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
131	Granulometric Characterization of Short Fiberglass in Reinforced Polypropylene. Relation to Processing Conditions and Mechanical Properties. <i>International Journal of Polymer Analysis and Characterization</i> , 1995 , 1, 339-347	1.7	21
130	Mixed systems to assist enzymatic ring opening polymerization of lactide stereoisomers. <i>RSC Advances</i> , 2015 , 5, 84627-84635	3.7	20
129	Dynamic network based on eugenol-derived epoxy as promising sustainable thermoset materials. <i>European Polymer Journal</i> , 2020 , 135, 109860	5.2	20
128	Calcium phosphates grown on bacterial cellulose template. <i>Ceramics International</i> , 2018 , 44, 9433-9441	5.1	20

127	Plastic Biodegradation: Challenges and Opportunities 2018 , 1-29		20
126	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
125	Natural Fibers, Bio- and Nanocomposites. <i>International Journal of Polymer Science</i> , 2011 , 2011, 1-2	2.4	20
124	Comprehensive experimental study of a starch/polyesteramide coextrusion. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 2586-2600	2.9	20
123	Structure-properties relationships of cellular materials from biobased polyurethane foams. <i>Materials Science and Engineering Reports</i> , 2021 , 145, 100608	30.9	20
122	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
121	Yield behaviour of renewable biocomposites of dimer fatty acid-based polyamides with cellulose fibres. <i>Composites Science and Technology</i> , 2010 , 70, 525-529	8.6	19
120	Combined effect of nucleating agent and plasticizer on the crystallization behaviour of polylactide. <i>Polymer Bulletin</i> , 2017 , 74, 4857-4886	2.4	18
119	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
118	Nanoclays for Lipase Immobilization: Biocatalyst Characterization and Activity in Polyester Synthesis. <i>Polymers</i> , 2016 , 8,	4.5	18
117	Clicking Biobased Polyphenols: A Sustainable Platform for Aromatic Polymeric Materials. <i>ChemSusChem</i> , 2018 , 11, 2472-2491	8.3	18
116	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
115	Plasma-polymer coatings onto different biodegradable polyesters surfaces. <i>European Polymer Journal</i> , 2013 , 49, 882-892	5.2	17
114	Green Nano-Biocomposites. <i>Green Energy and Technology</i> , 2012 , 1-11	0.6	17
113	Current Progress on Biodegradable Materials Based on Plasticized Starch. <i>Australian Journal of Chemistry</i> , 2005 , 58, 457	1.2	17
112	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
111	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
110	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

109	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
108	Viabilidade celular de nanofibras de polímeros biodegradáveis e seus nanocompósitos com argila montmorilonita. <i>Polimeros</i> , 2012 , 22, 34-41	1.6	16
107	Cellulose-based biocomposites: comparison of different multiphasic systems. <i>Composite Interfaces</i> , 2007 , 14, 787-805	2.3	16
106	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
105	PBS Makes its Entrance into the Family of Biobased Plastics 2016 , 225-285		15
104	Starch Polymers: From the Field to Industrial Products 2014 , 3-10		15
103	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
102	Production, Chemistry and Properties of Polyhydroxyalkanoates 2011 , 65-86		15
101	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
100	Determination of the microtexture of reinforced thermoplastics by image analysis. <i>Composites Science and Technology</i> , 1998 , 58, 377-387	8.6	14
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