

Jean-Marie Raquez

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.

191 papers	8,467 citations	48 h-index	87 g-index
200 ext. papers	9,597 ext. citations	5.6 avg, IF	6.26 L-index

#	Paper	IF	Citations
191	Poly(lactide (PLA)-based nanocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1504-1542	29.6	801
190	Thermosetting (bio)materials derived from renewable resources: A critical review. <i>Progress in Polymer Science</i> , 2010 , 35, 487-509	29.6	690
189	From interfacial ring-opening polymerization to melt processing of cellulose nanowhisker-filled polylactide-based nanocomposites. <i>Biomacromolecules</i> , 2011 , 12, 2456-65	6.9	316
188	Surface-initiated controlled polymerization as a convenient method for designing functional polymer brushes: From self-assembled monolayers to patterned surfaces. <i>Progress in Polymer Science</i> , 2012 , 37, 157-181	29.6	204
187	Shape-memory polymers for multiple applications in the materials world. <i>European Polymer Journal</i> , 2016 , 80, 268-294	5.2	202
186	Surface-modification of cellulose nanowhiskers and their use as nanoreinforcers into polylactide: A sustainably-integrated approach. <i>Composites Science and Technology</i> , 2012 , 72, 544-549	8.6	187
185	Poly(ε-caprolactone) based nanocomposites reinforced by surface-grafted cellulose nanowhiskers via extrusion processing: Morphology, rheology, and thermo-mechanical properties. <i>Polymer</i> , 2011 , 52, 1532-1538	3.9	183
184	New approach on the development of plasticized polylactide (PLA): Grafting of poly(ethylene glycol) (PEG) via reactive extrusion. <i>European Polymer Journal</i> , 2011 , 47, 2134-2144	5.2	169
183	Recent Advances in Reactive Extrusion Processing of Biodegradable Polymer-Based Compositions. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 447-470	3.9	165
182	High molecular weight poly(butylene succinate-co-butylene furandicarboxylate) copolyesters: from catalyzed polycondensation reaction to thermomechanical properties. <i>Biomacromolecules</i> , 2012 , 13, 2973-81	6.9	161
181	Nucleation and Crystallization in Double Crystalline Poly(p-dioxanone)-b-poly(ε-caprolactone) Diblock Copolymers. <i>Macromolecules</i> , 2003 , 36, 1633-1644	5.5	160
180	Crystallization Kinetics and Morphology of Biodegradable Double Crystalline PLLA-b-PCL Diblock Copolymers. <i>Macromolecules</i> , 2010 , 43, 4149-4160	5.5	146
179	Polylactide/cellulose nanocrystal nanocomposites: Efficient routes for nanofiber modification and effects of nanofiber chemistry on PLA reinforcement. <i>Polymer</i> , 2015 , 65, 9-17	3.9	136
178	Non-Isocyanate Polyurethanes from Carbonated Soybean Oil Using Monomeric or Oligomeric Diamines To Achieve Thermosets or Thermoplastics. <i>Macromolecules</i> , 2016 , 49, 2162-2171	5.5	135
177	Production of starch foams by twin-screw extrusion: effect of maleated poly(butylene adipate-co-terephthalate) as a compatibilizer. <i>Biomacromolecules</i> , 2005 , 6, 807-17	6.9	130
176	Designing Multiple-Shape Memory Polymers with Miscible Polymer Blends: Evidence and Origins of a Triple-Shape Memory Effect for Miscible PLLA/PMMA Blends. <i>Macromolecules</i> , 2014 , 47, 6791-6803	5.5	122
175	Self-nucleation and crystallization kinetics of double crystalline poly(p-dioxanone)-b-poly(ε-caprolactone) diblock copolymers. <i>Faraday Discussions</i> , 2005 , 128, 231-52; discussion 321-39	3.6	122

174	CO ₂ -blown microcellular non-isocyanate polyurethane (NIPU) foams: from bio- and CO ₂ -sourced monomers to potentially thermal insulating materials. <i>Green Chemistry</i> , 2016 , 18, 2206-2215	10	121
173	Maleated thermoplastic starch by reactive extrusion. <i>Carbohydrate Polymers</i> , 2008 , 74, 159-169	10.3	116
172	Thermoreversibly crosslinked poly(ε-caprolactone) as recyclable shape-memory polymer network. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1264-9	4.8	106
171	Recent advances in high performance poly(lactide): from "green" plasticization to super-tough materials via (reactive) compounding. <i>Frontiers in Chemistry</i> , 2013 , 1, 32	5	104
170	New development on plasticized poly(lactide): Chemical grafting of citrate on PLA by reactive extrusion. <i>European Polymer Journal</i> , 2012 , 48, 404-415	5.2	98
169	Design of cross-linked semicrystalline poly(ε-caprolactone)-based networks with one-way and two-way shape-memory properties through Diels-Alder reactions. <i>Chemistry - A European Journal</i> , 2011 , 17, 10135-43	4.8	98
168	In situ compatibilization of maleated thermoplastic starch/polyester melt-blends by reactive extrusion. <i>Polymer Engineering and Science</i> , 2008 , 48, 1747-1754	2.3	92
167	Poly(lactic acid)/carbon nanotube nanocomposites with integrated degradation sensing. <i>Polymer</i> , 2013 , 54, 6818-6823	3.9	83
166	Polyester-grafted cellulose nanowhiskers: a new approach for tuning the microstructure of immiscible polyester blends. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3364-71	9.5	83
165	Tailoring polylactide (PLA) properties for automotive applications: Effect of addition of designed additives on main mechanical properties. <i>Polymer Testing</i> , 2014 , 36, 1-9	4.5	73
164	How Composition Determines the Properties of Isodimorphic Poly(butylene succinate-ran-butylene azelate) Random Biobased Copolymers: From Single to Double Crystalline Random Copolymers. <i>Macromolecules</i> , 2015 , 48, 43-57	5.5	73
163	Toughening of polylactide by tailoring phase-morphology with P[CL-co-LA] random copolyesters as biodegradable impact modifiers. <i>European Polymer Journal</i> , 2013 , 49, 914-922	5.2	71
162	Stereocomplexation of polylactide enhanced by poly(methyl methacrylate): improved processability and thermomechanical properties of stereocomplexable polylactide-based materials. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11797-807	9.5	70
161	PLLA/PMMA blends: A shear-induced miscibility with tunable morphologies and properties?. <i>Polymer</i> , 2013 , 54, 3931-3939	3.9	68
160	Effects of interfacial stereocomplexation in cellulose nanocrystal-filled polylactide nanocomposites. <i>Cellulose</i> , 2013 , 20, 2877-2885	5.5	64
159	Surface-modified cellulose nanocrystals for biobased epoxy nanocomposites. <i>Polymer</i> , 2018 , 134, 155-162	9.9	64
158	Healing by the Joule effect of electrically conductive poly(ester-urethane)/carbon nanotube nanocomposites. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4089-4097	13	63
157	Design of Multistimuli-Responsive Shape-Memory Polymer Materials by Reactive Extrusion. <i>Chemistry of Materials</i> , 2014 , 26, 5860-5867	9.6	56

- 156 Random aliphatic copolyesters as new biodegradable impact modifiers for polylactide materials. *European Polymer Journal*, **2012**, 48, 331-340 5.2 54
- 155 Coordination-insertion/ring-opening polymerization of 1,4-dioxan-2-one and controlled synthesis of diblock copolymers with ϵ -caprolactone. *Macromolecular Rapid Communications*, **2000**, 21, 1063-1071 4.8 54
- 154 Effect of the addition of polyester-grafted-cellulose nanocrystals on the shape memory properties of biodegradable PLA/PCL nanocomposites. *Polymer Degradation and Stability*, **2018**, 152, 126-138 4.7 53
- 153 One-Pot Microwave-Assisted Synthesis of Graphene/Layered Double Hydroxide (LDH) Nanohybrids. *Nano-Micro Letters*, **2015**, 7, 332-340 19.5 52
- 152 Ultra-tough polylactide-based materials synergistically designed in the presence of rubbery ϵ -caprolactone-based copolyester and silica nanoparticles. *Composites Science and Technology*, **2013**, 84, 86-91 8.6 51
- 151 Biodegradable materials by reactive extrusion: from catalyzed polymerization to functionalization and blend compatibilization. *Comptes Rendus Chimie*, **2006**, 9, 1370-1379 2.7 51
- 150 Simple Approach for a Self-Healable and Stiff Polymer Network from Iminoboronate-Based Boroxine Chemistry. *Chemistry of Materials*, **2019**, 31, 3736-3744 9.6 50
- 149 Preparation of Cellulose Nanocrystal-Reinforced Poly(lactic acid) Nanocomposites through Noncovalent Modification with PLLA-Based Surfactants. *ACS Omega*, **2017**, 2, 2678-2688 3.9 49
- 148 Tailoring Polylactide Properties for Automotive Applications: Effects of Co-Addition of Halloysite Nanotubes and Selected Plasticizer. *Macromolecular Materials and Engineering*, **2015**, 300, 684-698 3.9 49
- 147 Poly(ϵ -pentadecalactone)-b-poly(L-lactide) Block Copolymers via Organic-Catalyzed Ring Opening Polymerization and Potential Applications. *ACS Macro Letters*, **2015**, 4, 408-411 6.6 49
- 146 Stereocomplexed PLA nanocomposites: From in situ polymerization to materials properties. *European Polymer Journal*, **2014**, 54, 138-150 5.2 49
- 145 Biobased polyesters with composition-dependent thermomechanical properties: synthesis and characterization of poly(butylene succinate-co-butylene azelate). *Biomacromolecules*, **2013**, 14, 890-9 6.9 49
- 144 Novel High-Performance Talc/Poly[(butylene adipate)-co-terephthalate] Hybrid Materials. *Macromolecular Materials and Engineering*, **2008**, 293, 310-320 3.9 49
- 143 Poly(L-lactide) and poly(butylene succinate) immiscible blends: from electrospinning to biologically active materials. *Materials Science and Engineering C*, **2014**, 41, 119-26 8.3 48
- 142 Recent advances in production of poly(lactic acid) (PLA) nanocomposites: a versatile method to tune crystallization properties of PLA. *Nanocomposites*, **2015**, 1, 71-82 3.4 48
- 141 Polylactide/Poly(ϵ -hydroxytetradecanoic acid) Reactive Blending: A Green Renewable Approach to Improving Polylactide Properties. *Biomacromolecules*, **2015**, 16, 1818-26 6.9 44
- 140 Fast IR-Actuated Shape-Memory Polymers Using in Situ Silver Nanoparticle-Grafted Cellulose Nanocrystals. *ACS Applied Materials & Interfaces*, **2018**, 10, 29933-29942 9.5 44
- 139 Well defined thermostable cellulose nanocrystals via two-step ionic liquid swelling-hydrolysis extraction. *Cellulose*, **2014**, 21, 4195-4207 5.5 44

138	Current progress in the production of PLA/ZnO nanocomposites: Beneficial effects of chain extender addition on key properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	44
137	From polyester grafting onto POSS nanocage by ring-opening polymerization to high performance polyester/POSS nanocomposites. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9415		44
136	Green and Efficient Synthesis of Dispersible Cellulose Nanocrystals in Biobased Polyesters for Engineering Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2517-2527	8.3	43
135	Dynamic Iminoboronate-Based Boroxine Chemistry for the Design of Ambient Humidity-Sensitive Self-Healing Polymers. <i>Chemistry - A European Journal</i> , 2017 , 23, 6730-6735	4.8	41
134	Hierarchical chemomechanical encoding of multi-responsive hydrogel actuators via 3D printing. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15395-15403	13	40
133	Confinement Effects on the Crystallization Kinetics and Self-Nucleation of Double Crystalline Poly(p-dioxanone)-b-poly(ϵ -caprolactone) Diblock Copolymers. <i>Macromolecular Symposia</i> , 2004 , 215, 369-382	0.8	40
132	Enzymatic reactive extrusion: moving towards continuous enzyme-catalysed polyester polymerisation and processing. <i>Green Chemistry</i> , 2015 , 17, 4146-4150	10	39
131	Single crystals morphology of biodegradable double crystalline PLLA-b-PCL diblock copolymers. <i>Polymer</i> , 2011 , 52, 5166-5177	3.9	38
130	PLA/SiO ₂ composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45367	2.9	37
129	Controlled Synthesis and Characterization of Poly[ethylene-block-(L,L-lactide)]s by Combining Catalytic Ethylene Oligomerization with π -Coordination-Insertion/Ring-Opening Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 896-902	2.6	37
128	Poly(amino-methacrylate) as versatile agent for carbon nanotube dispersion: an experimental, theoretical and application study. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6873		36
127	Some Thermodynamic, Kinetic, and Mechanistic Aspects of the Ring-Opening Polymerization of 1,4-Dioxan-2-one Initiated by Al(OiPr) ₃ in Bulk. <i>Macromolecules</i> , 2001 , 34, 8419-8425	5.5	36
126	One-component Diels-Alder based polyurethanes: a unique way to self-heal. <i>RSC Advances</i> , 2017 , 7, 48047-48053	3.7	35
125	Poly(methyl methacrylate) capsules as an alternative to the proof-of-concept glass capsules used in self-healing concrete. <i>Cement and Concrete Composites</i> , 2018 , 89, 260-271	8.6	35
124	Monomer/Linear Macromolecules/Cyclic Oligomers Equilibria in the Polymerization of 1,4-Dioxan-2-one. <i>Macromolecules</i> , 2004 , 37, 52-59	5.5	35
123	Shape-Memory Behavior of Polylactide/Silica Ionic Hybrids. <i>Macromolecules</i> , 2017 , 50, 2896-2905	5.5	33
122	Advances in intrinsic self-healing polyurethanes and related composites.. <i>RSC Advances</i> , 2020 , 10, 137663-137823	3.1	31
121	Multiresponsive Shape Memory Blends and Nanocomposites Based on Starch. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19197-201	9.5	31

120	Oxidative degradations of oxodegradable LDPE enhanced with thermoplastic pea starch: Thermo-mechanical properties, morphology, and UV-ageing studies. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 489-496	2.9	31
119	Imidazolium end-functionalized poly(L-lactide) for efficient carbon nanotube dispersion. <i>Chemical Communications</i> , 2010 , 46, 5527-9	5.8	30
118	Thermal and composting degradation of EVA/Thermoplastic starch blends and their nanocomposites. <i>Polymer Degradation and Stability</i> , 2019 , 159, 184-198	4.7	30
117	Toughening of poly(lactide) using polyethylene glycol methyl ether acrylate: Reactive versus physical blending. <i>Polymer Engineering and Science</i> , 2015 , 55, 1408-1419	2.3	29
116	Feasibility study into the potential use of fused-deposition modeling to manufacture 3D-printed enteric capsules in compounding pharmacies. <i>International Journal of Pharmaceutics</i> , 2019 , 569, 118581	6.5	29
115	Biomimetic Water-Responsive Self-Healing Epoxy with Tunable Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17853-17862	9.5	28
114	Design of highly tough poly(l-lactide)-based ternary blends for automotive applications. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	28
113	Tunable and Durable Toughening of Polylactide Materials Via Reactive Extrusion. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 583-595	3.9	28
112	Poly(ethylene oxide)-b-poly(L-lactide) diblock copolymer/carbon nanotube-based nanocomposites: LiCl as supramolecular structure-directing agent. <i>Biomacromolecules</i> , 2011 , 12, 4086-94	6.9	28
111	Thermal degradation of poly(l-lactide): Accelerating effect of residual DBU-based organic catalysts. <i>Polymer Degradation and Stability</i> , 2011 , 96, 739-744	4.7	28
110	Hydrolytic Degradation of Double Crystalline PPDX-b-PCL Diblock Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 903-914	2.6	28
109	Melt-stable poly(1,4-dioxan-2-one) (co)polymers by ring-opening polymerization via continuous reactive extrusion. <i>Polymer Engineering and Science</i> , 2005 , 45, 622-629	2.3	28
108	The Complex Amorphous Phase in Poly(butylene succinate-ran-butylene azelate) Isodimorphic Copolyesters. <i>Macromolecules</i> , 2017 , 50, 1569-1578	5.5	26
107	Investigation of the parameters used in fused deposition modeling of poly(lactic acid) to optimize 3D printing sessions. <i>International Journal of Pharmaceutics</i> , 2019 , 565, 367-377	6.5	26
106	Simulation-Aided Design of Tubular Polymeric Capsules for Self-Healing Concrete. <i>Materials</i> , 2016 , 10,	3.5	26
105	Processing of PVDF-based electroactive/ferroelectric films: importance of PMMA and cooling rate from the melt state on the crystallization of PVDF beta-crystals. <i>Soft Matter</i> , 2018 , 14, 4591-4602	3.6	26
104	Novel poly(ester-urethane)s based on polylactide: From reactive extrusion to crystallization and thermal properties. <i>Polymer</i> , 2012 , 53, 5657-5665	3.9	26
103	Ultra-stretchable ionic nanocomposites: from dynamic bonding to multi-responsive behavior. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13357-13363	13	25

102	A supramolecular approach toward organo-dispersible graphene and its straightforward polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18124		25
101	Bone-guided regeneration: from inert biomaterials to bioactive polymer (nano)composites. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 463-475	3.2	25
100	Tailoring of Co-Continuous Polymer Blend Morphology: Joint Action of Nanoclays and Compatibilizers. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1433-1440	2.6	25
99	Biobased waterborne polyurethanes for coating applications: How fully biobased polyols may improve the coating properties. <i>Progress in Organic Coatings</i> , 2016 , 97, 175-183	4.8	24
98	In-depth investigation on the effect and role of cardanol in the compatibilization of PLA/ABS immiscible blends by reactive extrusion. <i>European Polymer Journal</i> , 2017 , 93, 272-283	5.2	23
97	Supramolecular design of high-performance poly(L-lactide)/carbon nanotube nanocomposites: from melt-processing to rheological, morphological and electrical properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16190		23
96	A Review on Liquid Crystal Polymers in Free-Standing Reversible Shape Memory Materials. <i>Molecules</i> , 2020 , 25,	4.8	22
95	Magnetic poly(vinylpyridine)-coated carbon nanotubes: an efficient supramolecular tool for wastewater purification. <i>ChemSusChem</i> , 2013 , 6, 367-73	8.3	22
94	Acid-free extraction of cellulose type I nanocrystals using Brønsted acid-type ionic liquids. <i>Nanocomposites</i> , 2016 , 2, 65-75	3.4	21
93	Crystallization-induced toughness of rubber-modified polylactide: combined effects of biodegradable impact modifier and effective nucleating agent. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 814-822	3.2	21
92	Preparation and characterization of maleated thermoplastic starch-based nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 639-647	2.9	20
91	A comprehensive review of the structures and properties of ionic polymeric materials. <i>Polymer Chemistry</i> , 2020 , 11, 5914-5936	4.9	18
90	Bilayer solvent and vapor-triggered actuators made of cross-linked polymer architectures via Diels-Alder pathways. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5556-5563	7.3	17
89	Application of SSA thermal fractionation and X-ray diffraction to elucidate comonomer inclusion or exclusion from the crystalline phases in poly(butylene succinate-ran-butylene azelate) random copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2346-2358	2.6	17
88	Humidity-Activated Shape Memory Effects on Thermoplastic Starch/EVA Blends and Their Compatibilized Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700388	2.6	16
87	The role of curvature in Diels-Alder functionalization of carbon-based materials. <i>Chemical Communications</i> , 2016 , 52, 7608-11	5.8	16
86	Natural Phenolic Antioxidants As a Source of Biocompatibilizers for Immiscible Polymer Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13349-13357	8.3	16
85	Binary Mixed Homopolymer Brushes Tethered to Cellulose Nanocrystals: A Step Towards Compatibilized Polyester Blends. <i>Biomacromolecules</i> , 2016 , 17, 3048-59	6.9	15

- 84 Tailoring the isothermal crystallization kinetics of isodimorphic poly (butylene succinate-ran-butylene azelate) random copolymers by changing composition. *Polymer*, **2019**, 183, 121863^{3.9} 15
- 83 Semi-crystalline poly(ϵ -caprolactone) brushes on gold substrate via grafting from method: New insights with AFM characterization. *European Polymer Journal*, **2011**, 47, 31-39 5.2 15
- 82 Synthesis of melt-stable and semi-crystalline poly(1,4-dioxan-2-one) by ring-opening (co)polymerisation of 1,4-dioxan-2-one with different lactones. *Polymer Degradation and Stability*, **2004**, 86, 159-169 4.7 15
- 81 A dual approach to compatibilize PLA/ABS immiscible blends with epoxidized cardanol derivatives. *European Polymer Journal*, **2019**, 114, 118-126 5.2 15
- 80 The role of PLLA-g-montmorillonite nanohybrids in the acceleration of the crystallization rate of a commercial PLA. *CrystEngComm*, **2016**, 18, 9334-9344 3.3 14
- 79 Polylactide stereocomplex crystallization prompted by multiwall carbon nanotubes. *Journal of Applied Polymer Science*, **2013**, 130, n/a-n/a 2.9 14
- 78 Degradation of Film and Rigid Bioplastics During the Thermophilic Phase and the Maturation Phase of Simulated Composting. *Journal of Polymers and the Environment*, **2021**, 29, 3015-3028 4.5 14
- 77 Interphase Design of Cellulose Nanocrystals/Poly(hydroxybutyrate--valerate) Bionanocomposites for Mechanical and Thermal Properties Tuning. *Biomacromolecules*, **2020**, 21, 1892-1901 6.9 13
- 76 Poly(lactic acid)-Based Materials for Automotive Applications. *Advances in Polymer Science*, **2017**, 177-219³ 13
- 75 Stereocomplexes from Biosourced Lactide/Butylene Succinate-Based Copolymers and Their Role as Crystallization Accelerating Agent. *Macromolecular Chemistry and Physics*, **2012**, 213, 643-653 2.6 13
- 74 Synthesis of clicked imidazolium-containing biosourced copolymers and application in carbon nanotube dispersion. *Macromolecular Rapid Communications*, **2011**, 32, 1960-4 4.8 13
- 73 On the Sputtering of Titanium and Silver onto Liquids, Discussing the Formation of Nanoparticles. *Journal of Physical Chemistry C*, **2018**, 122, 26605-26612 3.8 13
- 72 Mechanistic insights on nanosilica self-networking inducing ultra-toughness of rubber-modified polylactide-based materials. *Nanocomposites*, **2015**, 1, 113-125 3.4 12
- 71 Reversible positioning at submicrometre scale of carbon nanotubes mediated by pH-sensitive poly(amino-methacrylate) patterns. *Chemical Communications*, **2011**, 47, 1163-5 5.8 12
- 70 Diblock Copolymers Based on 1,4-Dioxan-2-one and ϵ -Caprolactone: Characterization and Thermal Properties. *Macromolecular Chemistry and Physics*, **2004**, 205, 1764-1773 2.6 12
- 69 Poly(ϵ -caprolactone) and Poly(ϵ -pentadecalactone)-Based Networks with Two-Way Shape-Memory Effect through [2+2] Cycloaddition Reactions. *Macromolecular Chemistry and Physics*, **2018**, 219, 1700345^{2.6} 11
- 68 Resolving Inclusion Structure and Deformation Mechanisms in Polylactide Plasticized by Reactive Extrusion. *Macromolecular Materials and Engineering*, **2017**, 302, 1700326 3.9 11
- 67 On the Nanoscale Mapping of the Mechanical and Piezoelectric Properties of Poly (L-Lactic Acid) Electrospun Nanofibers. *Applied Sciences (Switzerland)*, **2020**, 10, 652 2.6 11

66	Microwave-assisted depolymerization of carrageenans from <i>Kappaphycus alvarezii</i> and <i>Eucheuma spinosum</i> : Controlled and green production of oligosaccharides from the algae biomass. <i>Algal Research</i> , 2020 , 51, 102054	5	11
65	Melt-processing of bionanocomposites based on ethylene-co-vinyl acetate and starch nanocrystals. <i>Carbohydrate Polymers</i> , 2019 , 208, 382-390	10.3	11
64	Strain-induced deformation mechanisms of polylactide plasticized with acrylated poly(ethylene glycol) obtained by reactive extrusion. <i>Polymer International</i> , 2015 , 64, 1544-1554	3.3	10
63	Development of Inherently Flame-Retardant Phosphorylated PLA by Combination of Ring-Opening Polymerization and Reactive Extrusion. <i>Materials</i> , 2019 , 13,	3.5	10
62	Mechanistic insights on ultra-tough polylactide-based ionic nanocomposites. <i>Composites Science and Technology</i> , 2020 , 191, 108075	8.6	9
61	Hydrolytic degradation of poly(L-lactic acid)/poly(methyl methacrylate) blends. <i>Polymer International</i> , 2018 , 67, 1393-1400	3.3	9
60	Supramolecular Approach for Efficient Processing of Polylactide/Starch Nanocomposites. <i>ACS Omega</i> , 2018 , 3, 1069-1080	3.9	8
59	Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. <i>Carbohydrate Polymers</i> , 2019 , 224, 115188	10.3	8
58	Self-assembly of poly(L-lactide-co-glycolide) and magnetic nanoparticles into nanoclusters for controlled drug delivery. <i>European Polymer Journal</i> , 2020 , 133, 109795	5.2	8
57	Unique two-way free-standing thermo- and photo-responsive shape memory azobenzene-containing polyurethane liquid crystal network. <i>Science China Materials</i> , 2020 , 63, 2590-2598	7.1	8
56	Mechanistic Insights on Spontaneous Moisture-Driven Healing of Urea-Based Polyurethanes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46176-46182	9.5	8
55	Microbial biofilm composition and polymer degradation of compostable and non-compostable plastics immersed in the marine environment. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126526	12.8	8
54	Design of New Cardanol Derivative: Synthesis and Application as Potential Biobased Plasticizer for Poly(lactide). <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1267-1278	3.9	7
53	Toward "Green" Hybrid Materials: Core-Shell Particles with Enhanced Impact Energy Absorbing Ability. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3757-3765	8.3	7
52	Synthesis of melt-processable PLA-based stereocomplexes through a sustainable melt-approach. <i>Green Chemistry</i> , 2014 , 16, 1759	10	7
51	Imidazolium End-Functionalized ATRP Polymers as Directing Agents for CNT Dispersion and Confinement. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1259-1265	2.6	7
50	N-Heterocyclic carbene catalysis - from simple organic reactions to polymerization of cyclic esters. <i>Polimery</i> , 2008 , 53, 255-267	3.4	6
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