

Jean-Marie Raquez

List of Publications by Year in descending order

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192
papers

10,833
citations

30068

54
h-index

36025

97
g-index

200
all docs

200
docs citations

200
times ranked

10169
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(lactide (PLA)-based nanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1504-1542.	24.7	992
2	Thermosetting (bio)materials derived from renewable resources: A critical review. <i>Progress in Polymer Science</i> , 2010, 35, 487-509.	24.7	782
3	From Interfacial Ring-Opening Polymerization to Melt Processing of Cellulose Nanowhisker-Filled Poly(lactide)-Based Nanocomposites. <i>Biomacromolecules</i> , 2011, 12, 2456-2465.	5.4	365
4	Shape-memory polymers for multiple applications in the materials world. <i>European Polymer Journal</i> , 2016, 80, 268-294.	5.4	260
5	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.	24.7	224
6	Surface-modification of cellulose nanowhiskers and their use as nanoreinforcers into poly(lactide): A sustainably-integrated approach. <i>Composites Science and Technology</i> , 2012, 72, 544-549.	7.8	219
7	New approach on the development of plasticized poly(lactide (PLA): Grafting of poly(ethylene glycol) (PEG) via reactive extrusion. <i>European Polymer Journal</i> , 2011, 47, 2134-2144.	5.4	209
8	Recent Advances in Reactive Extrusion Processing of Biodegradable Polymer-Based Compositions. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 447-470.	3.6	204
9	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.	3.8	200
10	High Molecular Weight Poly(butylene succinate-co-butylene furandicarboxylate) Copolyesters: From Catalyzed Polycondensation Reaction to Thermomechanical Properties. <i>Biomacromolecules</i> , 2012, 13, 2973-2981.	5.4	192
11	Non-Isocyanate Polyurethanes from Carbonated Soybean Oil Using Monomeric or Oligomeric Diamines To Achieve Thermosets or Thermoplastics. <i>Macromolecules</i> , 2016, 49, 2162-2171.	4.8	185
12	Nucleation and Crystallization in Double Crystalline Poly(p-dioxanone)-b-poly(μ -caprolactone) Diblock Copolymers. <i>Macromolecules</i> , 2003, 36, 1633-1644.	4.8	167
13	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.	9.0	165
14	Crystallization Kinetics and Morphology of Biodegradable Double Crystalline PLLA-b-PCL Diblock Copolymers. <i>Macromolecules</i> , 2010, 43, 4149-4160.	4.8	163
15	Poly(lactide)/cellulose nanocrystal nanocomposites: Efficient routes for nanofiber modification and effects of nanofiber chemistry on PLA reinforcement. <i>Polymer</i> , 2015, 65, 9-17.	3.8	163
16	Production of Starch Foams by Twin-Screw Extrusion: Effect of Maleated Poly(butylene) Tj ETQq0 0 0 rgBT /Overlap 10 Tf 50,142 Td (5.4	158
17	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.	4.8	147
18	Self-nucleation and crystallization kinetics of double crystalline poly(p-dioxanone)-b-poly(μ -caprolactone) diblock copolymers. <i>Faraday Discussions</i> , 2005, 128, 231-252.	3.2	135

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19	Maleated thermoplastic starch by reactive extrusion. <i>Carbohydrate Polymers</i> , 2008, 74, 159-169.	10.2	133
20	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.	3.6	129
21	Thermoreversibly Crosslinked Poly(ϵ -caprolactone) as Recyclable Shape-Memory Polymer Network. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1264-1269.	3.9	120
22	New development on plasticized poly(lactide): Chemical grafting of citrate on PLA by reactive extrusion. <i>European Polymer Journal</i> , 2012, 48, 404-415.	5.4	115
23	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, 10135-10143.	3.3	114
24	In situ compatibilization of maleated thermoplastic starch/polyester melt blends by reactive extrusion. <i>Polymer Engineering and Science</i> , 2008, 48, 1747-1754.	3.1	110
25	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.	4.8	106
26	How Composition Determines the Properties of Isodimorphic Poly(butylene) Terephthalate (succinate-co-terephthalate) Crystalline Random Copolymers. <i>Macromolecules</i> , 2015, 48, 43-57.	4.8	105
27	Polyester-Grafted Cellulose Nanowhiskers: A New Approach for Tuning the Microstructure of Immiscible Polyester Blends. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3364-3371.	8.0	98
28	Surface-modified cellulose nanocrystals for biobased epoxy nanocomposites. <i>Polymer</i> , 2018, 134, 155-162.	3.8	93
29	Poly(lactic acid)/carbon nanotube nanocomposites with integrated degradation sensing. <i>Polymer</i> , 2013, 54, 6818-6823.	3.8	88
30	Simple Approach for a Self-Healable and Stiff Polymer Network from Iminoboronate-Based Boroxine Chemistry. <i>Chemistry of Materials</i> , 2019, 31, 3736-3744.	6.7	87
31	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, 11797-11807.	8.0	85
32	Effect of the addition of polyester-grafted-cellulose nanocrystals on the shape memory properties of biodegradable PLA/PCL nanocomposites. <i>Polymer Degradation and Stability</i> , 2018, 152, 126-138.	5.8	81
33	PLLA/PMMA blends: A shear-induced miscibility with tunable morphologies and properties?. <i>Polymer</i> , 2013, 54, 3931-3939.	3.8	78
34	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.	5.4	77
35	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.	10.3	75
36	Hierarchical chemomechanical encoding of multi-responsive hydrogel actuators via 3D printing. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15395-15403.	10.3	73

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37	Advances in intrinsic self-healing polyurethanes and related composites. RSC Advances, 2020, 10, 13766-13782.	3.6	72
38	Effects of interfacial stereocomplexation in cellulose nanocrystal-filled polylactide nanocomposites. Cellulose, 2013, 20, 2877-2885.	4.9	71
39	Poly(methyl methacrylate) capsules as an alternative to the "proof-of-concept" glass capsules used in self-healing concrete. Cement and Concrete Composites, 2018, 89, 260-271.	10.7	66
40	Fast IR-Actuated Shape-Memory Polymers Using in Situ Silver Nanoparticle-Grafted Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 29933-29942.	8.0	66
41	One-Pot Microwave-Assisted Synthesis of Graphene/Layered Double Hydroxide (LDH) Nanohybrids. Nano-Micro Letters, 2015, 7, 332-340.	27.0	65
42	Poly(L-lactide) and poly(butylene succinate) immiscible blends: From electrospinning to biologically active materials. Materials Science and Engineering C, 2014, 41, 119-126.	7.3	64
43	Design of Multistimuli-Responsive Shape-Memory Polymer Materials by Reactive Extrusion. Chemistry of Materials, 2014, 26, 5860-5867.	6.7	64
44	Recent advances in production of poly(lactic acid) (PLA) nanocomposites: a versatile method to tune crystallization properties of PLA. Nanocomposites, 2015, 1, 71-82.	4.2	63
45	Preparation of Cellulose Nanocrystal-Reinforced Poly(lactic acid) Nanocomposites through Noncovalent Modification with PLLA-Based Surfactants. ACS Omega, 2017, 2, 2678-2688.	3.5	61
46	"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.	3.9	60
47	Biobased Polyesters with Composition-Dependent Thermomechanical Properties: Synthesis and Characterization of Poly(butylene succinate-co-butylene azelate). Biomacromolecules, 2013, 14, 890-899.	5.4	60
48	Biodegradable materials by reactive extrusion: from catalyzed polymerization to functionalization and blend compatibilization. Comptes Rendus Chimie, 2006, 9, 1370-1379.	0.5	59
49	Novel High-Performance Talc/Poly[(butylene adipate)-co-(terephthalate)] Hybrid Materials. Macromolecular Materials and Engineering, 2008, 293, 310-320.	3.6	59
50	Current progress in the production of PLA-ZnO nanocomposites: Beneficial effects of chain extender addition on key properties. Journal of Applied Polymer Science, 2015, 132, .	2.6	58
51	Green and Efficient Synthesis of Dispersible Cellulose Nanocrystals in Biobased Polyesters for Engineering Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 2517-2527.	6.7	58
52	Ultra-tough polylactide-based materials synergistically designed in the presence of rubbery μ -caprolactone-based copolyester and silica nanoparticles. Composites Science and Technology, 2013, 84, 86-91.	7.8	57
53	Poly(ϵ -pentadecalactone)- <i>b</i> -poly(<i>l</i> -lactide) Block Copolymers via Organic-Catalyzed Ring Opening Polymerization and Potential Applications. ACS Macro Letters, 2015, 4, 408-411.	4.8	56
54	Random aliphatic copolyesters as new biodegradable impact modifiers for polylactide materials. European Polymer Journal, 2012, 48, 331-340.	5.4	55

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55	Well defined thermostable cellulose nanocrystals via two-step ionic liquid swelling-hydrolysis extraction. <i>Cellulose</i> , 2014, 21, 4195-4207.	4.9	55
56	Tailoring Polylactide Properties for Automotive Applications: Effects of Co-Addition of Halloysite Nanotubes and Selected Plasticizer. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 684-698.	3.6	55
57	Degradation of Film and Rigid Bioplastics During the Thermophilic Phase and the Maturation Phase of Simulated Composting. <i>Journal of Polymers and the Environment</i> , 2021, 29, 3015-3028.	5.0	55
58	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.	3.3	54
59	Stereocomplexed PLA nanocomposites: From in situ polymerization to materials properties. <i>European Polymer Journal</i> , 2014, 54, 138-150.	5.4	51
60	Polylactide/Poly(ϵ -hydroxytetradecanoic acid) Reactive Blending: A Green Renewable Approach to Improving Polylactide Properties. <i>Biomacromolecules</i> , 2015, 16, 1818-1826.	5.4	51
61	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.	5.2	51
62	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.	5.2	51
63	Enzymatic reactive extrusion: moving towards continuous enzyme-catalysed polyester polymerisation and processing. <i>Green Chemistry</i> , 2015, 17, 4146-4150.	9.0	49
64	Biomimetic Water-Responsive Self-Healing Epoxy with Tunable Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17853-17862.	8.0	48
65	Thermal and composting degradation of EVA/Thermoplastic starch blends and their nanocomposites. <i>Polymer Degradation and Stability</i> , 2019, 159, 184-198.	5.8	48
66	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.	12.4	48
67	One-component Diels-Alder based polyurethanes: a unique way to self-heal. <i>RSC Advances</i> , 2017, 7, 48047-48053.	3.6	47
68	A comprehensive review of the structures and properties of ionic polymeric materials. <i>Polymer Chemistry</i> , 2020, 11, 5914-5936.	3.9	46
69	Monomer-Linear Macromolecules-Cyclic Oligomers Equilibria in the Polymerization of 1,4-Dioxan-2-one. <i>Macromolecules</i> , 2004, 37, 52-59.	4.8	45
70	Controlled Synthesis and Characterization of Poly[ethylene-block-(L,L-lactide)]s by Combining Catalytic Ethylene Oligomerization with σ -Coordination-Insertion-Ring-Opening Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 896-902.	2.2	45
71	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.	6.7	45
72	Confinement Effects on the Crystallization Kinetics and Self-Nucleation of Double Crystalline Poly(p-dioxanone)-b-poly(μ -caprolactone) Diblock Copolymers. <i>Macromolecular Symposia</i> , 2004, 215, 369-382.	0.7	43

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73	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.	2.6	43
74	Shape-Memory Behavior of Polylactide/Silica Ionic Hybrids. <i>Macromolecules</i> , 2017, 50, 2896-2905.	4.8	43
75	Single crystals morphology of biodegradable double crystalline PLLA-b-PCL diblock copolymers. <i>Polymer</i> , 2011, 52, 5166-5177.	3.8	42
76	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.	2.6	42
77	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.	4.8	41
78	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.	6.7	41
79	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.	3.9	41
80	A Review on Liquid Crystal Polymers in Free-Standing Reversible Shape Memory Materials. <i>Molecules</i> , 2020, 25, 1241.	3.8	41
81	Multiresponsive Shape Memory Blends and Nanocomposites Based on Starch. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19197-19201.	8.0	40
82	Design of highly tough poly(lactide)-based ternary blends for automotive applications. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	39
83	Simulation-Aided Design of Tubular Polymeric Capsules for Self-Healing Concrete. <i>Materials</i> , 2017, 10, 10.	2.9	36
84	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.	2.7	36
85	Thermal degradation of poly(l-lactide): Accelerating effect of residual DBU-based organic catalysts. <i>Polymer Degradation and Stability</i> , 2011, 96, 739-744.	5.8	35
86	Toughening of poly(lactide) using polyethylene glycol methyl ether acrylate: Reactive versus physical blending. <i>Polymer Engineering and Science</i> , 2015, 55, 1408-1419.	3.1	35
87	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.	3.1	34
88	Imidazolium end-functionalized poly(l-lactide) for efficient carbon nanotube dispersion. <i>Chemical Communications</i> , 2010, 46, 5527.	4.1	34
89	Tunable and Durable Toughening of Polylactide Materials Via Reactive Extrusion. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 583-595.	3.6	34
90	The Complex Amorphous Phase in Poly(butylene succinate- <i>ran</i> -butylene azelate) Isodimorphic Copolyesters. <i>Macromolecules</i> , 2017, 50, 1569-1578.	4.8	34

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91	Bone-guided regeneration: from inert biomaterials to bioactive polymer (nano)composites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 463-475.	3.2	33
92	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.	5.4	33
93	Ultra-stretchable ionic nanocomposites: from dynamic bonding to multi-responsive behavior. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13357-13363.	10.3	31
94	Poly(ethylene oxide)- <i>b</i> -poly(<i>l</i> -lactide) Diblock Copolymer/Carbon Nanotube-Based Nanocomposites: LiCl as Supramolecular Structure-Directing Agent. <i>Biomacromolecules</i> , 2011, 12, 4086-4094.	5.4	29
95	A supramolecular approach toward organo-dispersible graphene and its straightforward polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 18124.	6.7	29
96	Acid-free extraction of cellulose type I nanocrystals using Brønsted acid-type ionic liquids. <i>Nanocomposites</i> , 2016, 2, 65-75.	4.2	29
97	Hydrolytic Degradation of Double Crystalline PPDx-b-PCL Diblock Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 903-914.	2.2	28
98	Development of Inherently Flame-Retardant Phosphorylated PLA by Combination of Ring-Opening Polymerization and Reactive Extrusion. <i>Materials</i> , 2020, 13, 13.	2.9	28
99	Novel poly(ester-urethane)s based on polylactide: From reactive extrusion to crystallization and thermal properties. <i>Polymer</i> , 2012, 53, 5657-5665.	3.8	27
100	Magnetic Poly(vinylpyridine)-Coated Carbon Nanotubes: An Efficient Supramolecular Tool for Wastewater Purification. <i>ChemSusChem</i> , 2013, 6, 367-373.	6.8	27
101	Natural Phenolic Antioxidants As a Source of Biocompatibilizers for Immiscible Polymer Blends. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13349-13357.	6.7	27
102	Tailoring the isothermal crystallization kinetics of isodimorphic poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (succinate-r-121863.	3.8	27
103	Tailoring of Co-Continuous Polymer Blend Morphology: Joint Action of Nanoclays and Compatibilizers. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1433-1440.	2.2	26
104	Poly(lactic acid)-Based Materials for Automotive Applications. <i>Advances in Polymer Science</i> , 2017, , 177-219.	0.8	26
105	A dual approach to compatibilize PLA/ABS immiscible blends with epoxidized cardanol derivatives. <i>European Polymer Journal</i> , 2019, 114, 118-126.	5.4	26
106	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.	2.1	25
107	Supramolecular design of high-performance poly(<i>l</i> -lactide)/carbon nanotube nanocomposites: from melt-processing to rheological, morphological and electrical properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 16190.	6.7	23
108	Polylactide stereocomplex crystallization prompted by multiwall carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4327-4337.	2.6	23

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109	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.	4.6	23
110	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	22
111	Binary Mixed Homopolymer Brushes Tethered to Cellulose Nanocrystals: A Step Towards Compatibilized Polyester Blends. <i>Biomacromolecules</i> , 2016, 17, 3048-3059.	5.4	22
112	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.	5.8	22
113	Programmable Stimuli-Responsive Actuators for Complex Motions in Soft Robotics: Concept, Design and Challenges. <i>Actuators</i> , 2020, 9, 131.	2.3	22
114	On the Nanoscale Mapping of the Mechanical and Piezoelectric Properties of Poly (L-Lactic Acid) Electrospun Nanofibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 652.	2.5	22
115	Effect of extrusion and fused filament fabrication processing parameters of recycled poly(ethylene Terephthalate) (PET) on the mechanical properties of the resulting filaments. <i>Journal of Applied Polymer Science</i> , 2020, 122, 102518.	3.0	22
116	Preparation and characterization of maleated thermoplastic starch-based nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011, 122, 639-647.	2.6	21
117	The role of curvature in Diels-Alder functionalization of carbon-based materials. <i>Chemical Communications</i> , 2016, 52, 7608-7611.	4.1	20
118	Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. <i>Carbohydrate Polymers</i> , 2019, 224, 115188.	10.2	20
119	Melt-processing of bionanocomposites based on ethylene-co-vinyl acetate and starch nanocrystals. <i>Carbohydrate Polymers</i> , 2019, 208, 382-390.	10.2	20
120	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.	6.3	20
121	Composite Elastomer Exhibiting a Stress-Dependent Color Change and High Toughness Prepared by Self-Assembly of Silica Particles in a Polymer Network. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4078-4089.	4.4	20
122	Catalyst-free reprocessable crosslinked biobased polybenzoxazine-polyurethane based on dynamic carbamate chemistry. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	20
123	The role of PLLA-g-montmorillonite nanohybrids in the acceleration of the crystallization rate of a commercial PLA. <i>CrystEngComm</i> , 2016, 18, 9334-9344.	2.6	19
124	Humidity-Activated Shape Memory Effects on Thermoplastic Starch/EVA Blends and Their Compatibilized Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700388.	2.2	19
125	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. <i>Polymer Degradation and Stability</i> , 2004, 86, 159-169.	5.8	18
126	Mechanistic Insights on Spontaneous Moisture-Driven Healing of Urea-Based Polyurethanes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46176-46182.	8.0	18

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127	Semi-crystalline poly(μ -caprolactone) brushes on gold substrate via ϵ -grafting from ϵ -method: New insights with AFM characterization. <i>European Polymer Journal</i> , 2011, 47, 31-39.	5.4	17
128	On the Sputtering of Titanium and Silver onto Liquids, Discussing the Formation of Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26605-26612.	3.1	17
129	Interphase Design of Cellulose Nanocrystals/Poly(hydroxybutyrate- <i>ran</i> -valerate) Bionanocomposites for Mechanical and Thermal Properties Tuning. <i>Biomacromolecules</i> , 2020, 21, 1892-1901.	5.4	17
130	Poly(μ -caprolactone) and Poly(ϵ -pentadecalactone)-Based Networks with Two-Way Shape-Memory Effect through [2+2] Cycloaddition Reactions. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700345.	2.2	16
131	Resolving Inclusion Structure and Deformation Mechanisms in Polylactide Plasticized by Reactive Extrusion. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700326.	3.6	15
132	Dynamic Thermal-Regulating Textiles with Metallic Fibers Based on a Switchable Transmittance. <i>Physical Review Applied</i> , 2020, 14, .	3.8	15
133	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.	5.4	15
134	Stereocomplexes from Biosourced Lactide/Butylene Succinate-Based Copolymers and Their Role as Crystallization Accelerating Agent. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 643-653.	2.2	14
135	Tough and Three-Dimensional-Printable Poly(2-methoxyethyl acrylate)-Silica Composite Elastomer with Antiplatelet Adhesion Property. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46621-46628.	8.0	14
136	Diblock Copolymers Based on 1,4-Dioxan-2-one and ϵ -Caprolactone: Characterization and Thermal Properties. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1764-1773.	2.2	13
137	Reversible positioning at submicrometre scale of carbon nanotubes mediated by pH-sensitive poly(amino-methacrylate) patterns. <i>Chemical Communications</i> , 2011, 47, 1163-1165.	4.1	13
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