Andrew Dove

List of Publications by Year
in descending order

197 papers	15,307 citations	14653 66 h-index	19747 117 g-index
205 all docs	205 docs citations	205 times ranked	10071 citing authors

#	Article	IF	Citations
1	Stereocontrolled ring-opening polymerisation of lactide. Chemical Society Reviews, 2010, 39, 486-494.	38.1	755
2	Guanidine and Amidine Organocatalysts for Ring-Opening Polymerization of Cyclic Esters. Macromolecules, 2006, 39, 8574-8583.	4.8	689
3	Organic Catalysis for Ring-Opening Polymerization. ACS Macro Letters, 2012, 1, 1409-1412.	4.8	438
4	Critical advances and future opportunities in upcycling commodity polymers. Nature, 2022, 603, 803-814.	27.8	404
5	Thiourea-Based Bifunctional Organocatalysis:Â Supramolecular Recognition for Living Polymerization. Journal of the American Chemical Society, 2005, 127, 13798-13799.	13.7	380
6	Exploration, Optimization, and Application of Supramolecular Thioureaâ˘Amine Catalysts for the Synthesis of Lactide (Co)polymers. Macromolecules, 2006, 39, 7863-7871.	4.8	371
7	Cylindrical micelles from the living crystallization-driven self-assembly of poly(lactide)-containing block copolymers. Chemical Science, 2011, 2, 955-960.	7.4	310
8	Organocatalytic Ring Opening Polymerization of Trimethylene Carbonate. Biomacromolecules, 2007, 8, 153-160.	5.4	302
9	Synthesis and post-polymerisation modifications of aliphatic poly(carbonate)s prepared by ring-opening polymerisation. Chemical Society Reviews, 2013, 42, 1312-1336.	38.1	302
10	Plastics recycling with a difference. Science, 2018, 360, 380-381.	12.6	296
11	Controlled ring-opening polymerisation of cyclic esters: polymer blocks in self-assembled nanostructures. Chemical Communications, 2008, , 6446.	4.1	279
12	Hydrogel scaffolds for differentiation of adipose-derived stem cells. Chemical Society Reviews, 2017, 46, 6255-6275.	38.1	268
13	Synthesis, properties and biomedical applications of hydrolytically degradable materials based on aliphatic polyesters and polycarbonates. Biomaterials Science, 2017, 5, 9-21.	5.4	261
14	Synthetic, Structural, Mechanistic, and Computational Studies on Single-Site Î2-Diketiminate Tin(II) Initiators for the Polymerization ofrac-Lactide. Journal of the American Chemical Society, 2006, 128, 9834-9843.	13.7	209
15	Organocatalysis for depolymerisation. Polymer Chemistry, 2019, 10, 172-186.	3.9	207
16	Simultaneous Orthogonal Dual-Click Approach to Tough, <i>in-Situ</i>-Forming Hydrogels for Cell Encapsulation. Journal of the American Chemical Society, 2015, 137, 1618-1622.	13.7	197
17	Implementation of metal-free ring-opening polymerization in the preparation of aliphatic polycarbonate materials. Progress in Polymer Science, 2014, 39, 1144-1164.	24.7	189
18	Stereochemical enhancement of polymer properties. Nature Reviews Chemistry, 2019, 3, 514-535.	30.2	188

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19	Metal free thiolâ€“maleimide â€˜Clickâ€™ reaction as a mild functionalisation strategy for degradable polymers. Chemical Communications, 2008, , 5158.	4.1	186
20	Magnesium and zinc complexes of a potentially tridentate Î²-diketiminate ligand. Dalton Transactions, 2004, , 570-578.	3.3	183
21	Organocatalysed depolymerisation of PET in a fully sustainable cycle using thermally stable protic ionic salt. Green Chemistry, 2018, 20, 1205-1212.	9.0	182
22	Additive-Free Clicking for Polymer Functionalization and Coupling by Tetrazineâ€“Norbornene Chemistry. Journal of the American Chemical Society, 2011, 133, 13828-13831.	13.7	175
23	100th Anniversary of Macromolecular Science Viewpoint: Toward Catalytic Chemical Recycling of Waste (and Future) Plastics. ACS Macro Letters, 2020, 9, 1494-1506.	4.8	172
24	Stereoselective polymerization of rac- and meso-lactide catalyzed by sterically encumbered N-heterocyclic carbenes. Chemical Communications, 2006, , 2881.	4.1	169
25	Single-Component Catalyst/Initiators for the Organocatalytic Ring-Opening Polymerization of Lactide. Journal of the American Chemical Society, 2005, 127, 9079-9084.	13.7	168
26	Exploiting the role of nanoparticle shape in enhancing hydrogel adhesive and mechanical properties. Nature Communications, 2020, 11, 1420.	12.8	167
27	1D vs. 2D shape selectivity in the crystallization-driven self-assembly of polylactide block copolymers. Chemical Science, 2017, 8, 4223-4230.	7.4	165
28	Precision Epitaxy for Aqueous 1D and 2D Poly(Îµ-caprolactone) Assemblies. Journal of the American Chemical Society, 2017, 139, 16980-16985.	13.7	159
29	Towards poly(ester) nanoparticles: recent advances in the synthesis of functional poly(ester)s by ring-opening polymerization. Polymer Chemistry, 2010, 1, 260.	3.9	154
30	Aliphatic Polycarbonates from Cyclic Carbonate Monomers and Their Application as Biomaterials. Chemical Reviews, 2021, 121, 10865-10907.	47.7	150
31	Alcohol Adducts ofN-Heterocyclic Carbenes:Â Latent Catalysts for the Thermally-Controlled Living Polymerization of Cyclic Esters. Macromolecules, 2006, 39, 5617-5628.	4.8	144
32	Latent, Thermally Activated Organic Catalysts for the On-Demand Living Polymerization of Lactide. Angewandte Chemie - International Edition, 2005, 44, 4964-4968.	13.8	142
33	N-Heterocyclic carbenes: Effective organic catalysts for living polymerization. Polymer, 2006, 47, 4018-4025.	3.8	141
34	A well defined tin(ii) initiator for the living polymerisation of lactide. Chemical Communications, 2001, , 283-284.	4.1	135
35	Organocatalytic Synthesis and Postpolymerization Functionalization of Allyl-Functional Poly(carbonate)s. Macromolecules, 2011, 44, 2084-2091.	4.8	134
36	Recent Advances and Challenges in the Design of Organic Photoacid and Photobase Generators for Polymerizations. Angewandte Chemie - International Edition, 2019, 58, 10410-10422.	13.8	132

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37	Directed differentiation and neurite extension of mouse embryonic stem cell on aligned poly(lactide) nanofibers functionalized with YIGSR peptide. Biomaterials, 2013, 34, 9089-9095.	11.4	130
38	Synthesis of Poly(lactide)s with Modified Thermal and Mechanical Properties. Macromolecular Rapid Communications, 2010, 31, 1923-1937.	3.9	128
39	Structural reorganization of cylindrical nanoparticles triggered by polylactide stereocomplexation. Nature Communications, 2014, 5, 5746.	12.8	125
40	Update and Challenges in Carbon Dioxideâ€Based Polycarbonate Synthesis. ChemSusChem, 2020, 13, 469-487.	6.8	121
41	N-Heterocyclic carbenes as organocatalysts for polymerizations: trends and frontiers. Polymer Chemistry, 2015, 6, 3185-3200.	3.9	118
42	Dual Catalysis for Selective Ring-Opening Polymerization of Lactones: Evolution toward Simplicity. Journal of the American Chemical Society, 2015, 137, 14439-14445.	13.7	118
43	Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst. Angewandte Chemie - International Edition, 2021, 60, 6710-6717.	13.8	118
44	Tuning the Size of Cylindrical Micelles from Poly(<scp>l</scp>-lactide)-<i>b</i>-poly(acrylic acid) Diblock Copolymers Based on Crystallization-Driven Self-Assembly. Macromolecules, 2013, 46, 9074-9082.	4.8	113
45	Shape Effect of Glyco-Nanoparticles on Macrophage Cellular Uptake and Immune Response. ACS Macro Letters, 2016, 5, 1059-1064.	4.8	112
46	Self-assembly of cyclic polymers. Polymer Chemistry, 2015, 6, 2998-3008.	3.9	111
47	Low coordinate magnesium chemistry supported by a bulky Î²-diketiminate ligand. Dalton Transactions, 2003, , 3088-3097.	3.3	109
48	Organocatalytic, Regioselective Nucleophilic â€œClickâ€• Addition of Thiols to Propiolic Acid Esters for Polymerâ€“Polymer Coupling. Angewandte Chemie - International Edition, 2013, 52, 4132-4136.	13.8	109
49	Nâ€Heterocyclic Olefins as Organocatalysts for Polymerization: Preparation of Wellâ€Defined Poly(propylene oxide). Angewandte Chemie - International Edition, 2015, 54, 9550-9554.	13.8	105
50	Uniform Biodegradable Fiber-Like Micelles and Block Comicelles via â€œLivingâ€• Crystallization-Driven Self-Assembly of Poly(<scp>l</scp>-lactide) Block Copolymers: The Importance of Reducing Unimer Self-Nucleation via Hydrogen Bond Disruption. Journal of the American Chemical Society, 2019, 141, 19088-19098.	13.7	104
51	Crystallization-driven sphere-to-rod transition of poly(lactide)-b-poly(acrylic acid) diblock copolymers: mechanism and kinetics. Soft Matter, 2012, 8, 7408.	2.7	101
52	Click Nucleophilic Conjugate Additions to Activated Alkynes: Exploring Thiol-yne, Amino-yne, and Hydroxyl-yne Reactions from (Bio)Organic to Polymer Chemistry. Chemical Reviews, 2021, 121, 6744-6776.	47.7	99
53	Synthesis and Functionalization of Thiol-Reactive Biodegradable Polymers. Macromolecules, 2012, 45, 1715-1722.	4.8	98
54	Controlling the Size of Two-Dimensional Polymer Platelets for Water-in-Water Emulsifiers. ACS Central Science, 2018, 4, 63-70.	11.3	94

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55	Synthesis and postâ€polymerization modification of maleimideâ€containing polymers by â€˜thiolâ€eneâ€™ click and Dielsâ€“Alder chemistries. Polymer International, 2011, 60, 1149-1157.	3.1	91
56	â€˜Immortalâ€™ ring-opening polymerization of Ï‰-pentadecalactone by Mg(BHT)₂(THF)₂. Polymer Chemistry, 2014, 5, 2691-2694.	3.9	85
57	One-Pot Synthesis of Î±,Ï‰-Chain End Functional, Stereoregular, Star-Shaped Poly(lactide). Macromolecules, 2009, 42, 141-147.	4.8	84
58	Organocatalytic ring-opening polymerization of l-lactide in bulk: A long standing challenge. European Polymer Journal, 2017, 95, 628-634.	5.4	83
59	Synthesis of Ï‰-Pentadecalactone Copolymers with Independently Tunable Thermal and Degradation Behavior. Macromolecules, 2015, 48, 950-958.	4.8	78
60	A Simple and Efficient Synthesis of an Acid-Labile Polyphosphoramidate by Organobase-Catalyzed Ring-Opening Polymerization and Transformation to Polyphosphoester Ionomers by Acid Treatment. Macromolecules, 2013, 46, 5141-5149.	4.8	77
61	Synthesis of Stereoregular Cyclic Poly(lactide)s via â€œThiolâˆ’Eneâ€•Click Chemistry. Macromolecules, 2010, 43, 6538-6541.	4.8	76
62	Functional Degradable Polymers by Xanthate-Mediated Polymerization. Macromolecules, 2014, 47, 2847-2852.	4.8	76
63	Highly Polarized Alkenes as Organocatalysts for the Polymerization of Lactones and Trimethylene Carbonate. ACS Macro Letters, 2016, 5, 134-138.	4.8	76
64	In situ-forming robust chitosan-poly(ethylene glycol) hydrogels prepared by copper-free azideâ€“alkyne click reaction for tissue engineering. Biomaterials Science, 2014, 2, 167-175.	5.4	75
65	Ring-opening polymerization of an O-carboxyanhydride monomer derived from l-malic acid. Polymer Chemistry, 2011, 2, 2204.	3.9	71
66	Functional Degradable Polymers by Radical Ring-Opening Copolymerization of MDO and Vinyl Bromobutanoate: Synthesis, Degradability and Post-Polymerization Modification. Biomacromolecules, 2015, 16, 2049-2058.	5.4	69
67	Synthesis of Functionalized Cyclic Carbonates through Commodity Polymer Upcycling. ACS Macro Letters, 2020, 9, 443-447.	4.8	69
68	Expanding the scope of the crystallization-driven self-assembly of polylactide-containing polymers. Polymer Chemistry, 2014, 5, 1427-1436.	3.9	68
69	Rational Study of DBU Salts for the CO₂ Insertion into Epoxides for the Synthesis of Cyclic Carbonates. ACS Sustainable Chemistry and Engineering, 2019, 7, 10633-10640.	6.7	68
70	Nonswelling Thiolâ€“Yne Cross-Linked Hydrogel Materials as Cytocompatible Soft Tissue Scaffolds. Biomacromolecules, 2018, 19, 1378-1388.	5.4	67
71	Orthogonal Modification of Norbornene-Functional Degradable Polymers. ACS Macro Letters, 2012, 1, 1285-1290.	4.8	64
72	Synthesis and Organocatalytic Ring-Opening Polymerization of Cyclic Esters Derived from <scp>l</scp>-Malic Acid. Biomacromolecules, 2010, 11, 1930-1939.	5.4	63

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73	Efficient In Situ Nucleophilic Thiol-yne Click Chemistry for the Synthesis of Strong Hydrogel Materials with Tunable Properties. ACS Macro Letters, 2017, 6, 93-97.	4.8	63
74	Glyco-Platelets with Controlled Morphologies via Crystallization-Driven Self-Assembly and Their Shape-Dependent Interplay with Macrophages. ACS Macro Letters, 2019, 8, 596-602.	4.8	63
75	Isoselective Ring-Opening Polymerization of <i>rac</i>-Lactide from Chiral Takemotoâ€™s Organocatalysts: Elucidation of Stereocontrol. ACS Macro Letters, 2018, 7, 1413-1419.	4.8	62
76	3D Printing for the Clinic: Examining Contemporary Polymeric Biomaterials and Their Clinical Utility. Biomacromolecules, 2020, 21, 1037-1059.	5.4	61
77	Cyclic Graft Copolymer Unimolecular Micelles: Effects of Cyclization on Particle Morphology and Thermoresponsive Behavior. Macromolecules, 2016, 49, 2802-2813.	4.8	60
78	4D polycarbonates via stereolithography as scaffolds for soft tissue repair. Nature Communications, 2021, 12, 3771.	12.8	59
79	Metal-Free Functionalization of Linear Polyurethanes by Thiol-Maleimide Coupling Reactions. Macromolecules, 2011, 44, 7874-7878.	4.8	57
80	Nanosponge Formation from Organocatalytically Synthesized Poly(carbonate) Copolymers. ACS Macro Letters, 2012, 1, 915-918.	4.8	56
81	Preparation of in situ-forming poly(5-methyl-5-allyloxycarbonyl-1,3-dioxan-2-one)-poly(ethylene glycol) hydrogels with tuneable swelling, mechanical strength and degradability. Journal of Materials Chemistry B, 2013, 1, 221-229.	5.8	56
82	Elastomeric polyamide biomaterials with stereochemically tuneable mechanical properties and shape memory. Nature Communications, 2020, 11, 3250.	12.8	56
83	Nâ€Heterocyclic carbenes for metalâ€free polymerization catalysis: an update. Polymer International, 2016, 65, 16-27.	3.1	55
84	Triarylsulfonium hexafluorophosphate salts as photoactivated acidic catalysts for ring-opening polymerisation. Chemical Communications, 2013, 49, 1205.	4.1	53
85	Dual-catalytic depolymerization of polyethylene terephthalate (PET). Polymer Chemistry, 2020, 11, 1450-1453.	3.9	53
86	Tetrazineâ€Norbornene Click Reactions to Functionalize Degradable Polymers Derived from Lactide. Macromolecular Rapid Communications, 2011, 32, 1362-1366.	3.9	51
87	Controlling the synthesis of degradable vinyl polymers by xanthate-mediated polymerization. Polymer Chemistry, 2015, 6, 7447-7454.	3.9	51
88	Poly(oligo(ethylene glycol) vinyl acetate)s: A Versatile Class of Thermoresponsive and Biocompatible Polymers. Angewandte Chemie - International Edition, 2017, 56, 9178-9182.	13.8	51
89	Terpene- and terpenoid-based polymeric resins for stereolithography 3D printing. Polymer Chemistry, 2019, 10, 5959-5966.	3.9	50
90	Robust alginate/hyaluronic acid thiolâ€“yne click-hydrogel scaffolds with superior mechanical performance and stability for load-bearing soft tissue engineering. Biomaterials Science, 2020, 8, 405-412.	5.4	48

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91	Size and shape affects the antimicrobial activity of quaternized nanoparticles. Journal of Polymer Science Part A, 2019, 57, 255-259.	2.3	47
92	Selective Reactivity of Myrcene for Vat Photopolymerization 3D Printing and Postfabrication Surface Modification. Biomacromolecules, 2020, 21, 163-170.	5.4	47
93	Organocatalytic synthesis and post-polymerization functionalization of propargyl-functional poly(carbonate)s. Polymer Chemistry, 2013, 4, 174-183.	3.9	46
94	Synthesis of Degradable Poly(vinyl alcohol) by Radical Ring-Opening Copolymerization and Ice Recrystallization Inhibition Activity. ACS Macro Letters, 2017, 6, 1404-1408.	4.8	45
95	Independent Control of Elastomer Properties through Stereocontrolled Synthesis. Angewandte Chemie - International Edition, 2016, 55, 13076-13080.	13.8	43
96	Understanding the CDSA of poly(lactide) containing triblock copolymers. Polymer Chemistry, 2017, 8, 5504-5512.	3.9	43
97	Synthesis and Postpolymerization Modification of One-Pot Ï‰-Pentadecalactone Block-like Copolymers. Biomacromolecules, 2015, 16, 3191-3200.	5.4	41
98	Length Control of Biodegradable Fiber-Like Micelles via Tuning Solubility: A Self-Seeding Crystallization-Driven Self-Assembly of Poly(Îµ-caprolactone)-Containing Triblock Copolymers. Macromolecules, 2020, 53, 1514-1521.	4.8	41
99	Polymers from macrolactones: From pheromones to functional materials. Progress in Polymer Science, 2019, 91, 29-50.	24.7	40
100	A well-defined magnesium enolate initiator for the living and highly syndioselective polymerisation of methylmethacrylateElectronic supplementary information (ESI) available: synthetic and polymerisation details. See http://www.rsc.org/suppdata/cc/b2/b201896a/. Chemical Communications, 2002, , 1208-1209.	4.1	39
101	Benzyl bispidine as an efficient replacement for (âˆ’)-sparteine in ring opening polymerisation. Chemical Science, 2013, 4, 1092.	7.4	39
102	Poly(<scp>d</scp>-glucose carbonate) Block Copolymers: A Platform for Natural Product-Based Nanomaterials with Solvothermatic Characteristics. Biomacromolecules, 2013, 14, 3346-3353.	5.4	38
103	Photoinduced ring-opening polymerisation of <scp>l</scp>-lactide <i>via</i> a photocaged superbase. Chemical Communications, 2018, 54, 6264-6267.	4.1	36
104	Harnessing the Chemical Diversity of the Natural Product Magnolol for the Synthesis of Renewable, Degradable Neolignan Thermosets with Tunable Thermomechanical Characteristics and Antioxidant Activity. Biomacromolecules, 2019, 20, 109-117.	5.4	35
105	Nickel-Catalyzed Coordination Polymerization-Induced Self-Assembly of Helical Poly(aryl isocyanide)s. ACS Macro Letters, 2020, 9, 226-232.	4.8	35
106	Postpolymerization Modifications of Alkeneâ€Functional Polycarbonates for the Development of Advanced Materials Biomaterials. Macromolecular Bioscience, 2016, 16, 1762-1775.	4.1	34
107	Additiveâ€Free Green Lightâ€Induced Ligation Using BODIPY Triggers. Angewandte Chemie - International Edition, 2020, 59, 2284-2288.	13.8	34
108	Concomitant control of mechanical properties and degradation in resorbable elastomer-like materials using stereochemistry and stoichiometry for soft tissue engineering. Nature Communications, 2021, 12, 446.	12.8	34

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109	Ultraâ€Tough Elastomers from Stereochemistryâ€Directed Hydrogen Bonding in Isosorbideâ€Based Polymers. Angewandte Chemie - International Edition, 2022, 61, .	13.8	34
110	Cyclopentadienyl titanium hydroxylaminato complexes as highly active catalysts for the polymerization of propylene. Chemical Communications, 2005, , 2152.	4.1	33
111	Development of Aminoâ€“Oxazoline and Aminoâ€“Thiazoline Organic Catalysts for the Ringâ€Opening Polymerisation of Lactide. Chemistry - A European Journal, 2010, 16, 6099-6105.	3.3	33
112	Precious metal carborane polymer nanoparticles: characterisation of micellar formulations and anticancer activity. Faraday Discussions, 2014, 175, 229-240.	3.2	33
113	A microstereolithography resin based on thiol-ene chemistry: towards biocompatible 3D extracellular constructs for tissue engineering. Biomaterials Science, 2014, 2, 472-475.	5.4	32
114	Hollow Block Copolymer Nanoparticles through a Spontaneous One-step Structural Reorganization. ACS Nano, 2013, 7, 1120-1128.	14.6	31
115	Fabrication of 3-Dimensional Cellular Constructs via Microstereolithography Using a Simple, Three-Component, Poly(Ethylene Glycol) Acrylate-Based System. Biomacromolecules, 2013, 14, 186-192.	5.4	31
116	Fabrication of crystals from single metal atoms. Nature Communications, 2014, 5, 3851.	12.8	31
117	Self-healing, stretchable and robust interpenetrating network hydrogels. Biomaterials Science, 2018, 6, 2932-2937.	5.4	31
118	Selective Organocatalytic Preparation of Trimethylene Carbonate from Oxetane and Carbon Dioxide. ACS Catalysis, 2020, 10, 5399-5404.	11.2	31
119	Dependence of Copolymer Sequencing Based on Lactone Ring Size and Îµ-Substitution. ACS Macro Letters, 2016, 5, 346-350.	4.8	30
120	Modular Functionalization of Laminarin to Create Value-Added Naturally Derived Macromolecules. Journal of the American Chemical Society, 2020, 142, 19689-19697.	13.7	26
121	Design of synthetic extracellular matrices for probing breast cancer cell growth using robust cyctocompatible nucleophilic thiol-yne addition chemistry. Biomaterials, 2018, 178, 435-447.	11.4	25
122	Unlocking the Potential of Poly(<i>Ortho</i> Ester)s: A General Catalytic Approach to the Synthesis of Surfaceâ€Erodible Materials. Angewandte Chemie - International Edition, 2017, 56, 16664-16668.	13.8	24
123	Metal-free synthesis of poly(trimethylene carbonate) by efficient valorization of carbon dioxide. Green Chemistry, 2019, 21, 472-477.	9.0	24
124	Sugar-Based Polymers with Stereochemistry-Dependent Degradability and Mechanical Properties. Journal of the American Chemical Society, 2022, 144, 1243-1250.	13.7	24
125	Renewable and recyclable covalent adaptable networks based on bio-derived lipoic acid. Polymer Chemistry, 2021, 12, 5796-5802.	3.9	23
126	N-Heterocyclic Carbenes as Organic Catalysts. , 2006, , 275-296.		22

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127	Synthesis of aliphatic polycarbonates with a tuneable thermal response. Polymer Chemistry, 2017, 8, 5082-5090.	3.9	21
128	Synthesis of Rapidly Surface Eroding Polyorthoesters and Polyacetals Using Thiolâ€"ene Click Chemistry. ACS Macro Letters, 2019, 8, 1268-1274.	4.8	20
129	Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst. Angewandte Chemie, 2021, 133, 6784-6791.	2.0	20
130	Propylene Polymerization with Cyclopentadienyltitanium(IV) Hydroxylaminato Complexes. Organometallics, 2009, 28, 405-412.	2.3	19
131	Control over molar mass, dispersity, end-groups and kinetics in cyclopolymerization of ortho-phthalaldehyde: adapted choice of a phosphazene organocatalyst. Polymer Chemistry, 2014, 5, 706-711.	3.9	19
132	Surface grafted poly(Îµ-caprolactone) prepared using organocatalysed ring-opening polymerisation followed by SI-ATRP. Polymer Chemistry, 2014, 5, 2809-2815.	3.9	19
133	Synthesis and post-polymerisation modification of an epoxy-functional polycarbonate. Polymer Chemistry, 2016, 7, 7108-7115.	3.9	19
134	Organocatalytic synthesis of astaxanthin-containing poly(lactide)s. Polymer Chemistry, 2011, 2, 595-600.	3.9	18
135	Morpholine-functionalized polycarbonate hydrogels for heavy metal ion sequestration. Polymer Chemistry, 2013, 4, 1260-1270.	3.9	18
136	Stepâ€Growth Polymerization in the 21st Century. Macromolecular Chemistry and Physics, 2014, 215, 2135-2137.	2.2	18
137	Block copolymer materials from the organocatalytic ring-opening polymerization of a pentaerythritol-derived cyclic carbonate. Journal of Polymer Science Part A, 2014, 52, 2279-2286.	2.3	18
138	Chaining up carbon dioxide. Nature Chemistry, 2014, 6, 276-277.	13.6	18
139	Efficient polymerization and post-modification of <i>N</i>-substituted eight-membered cyclic carbonates containing allyl groups. Polymer Chemistry, 2018, 9, 2458-2467.	3.9	18
140	Unsaturated Poly(ester-urethanes) with Stereochemically Dependent Thermomechanical Properties. Macromolecules, 2020, 53, 174-181.	4.8	17
141	Degradable graft copolymers by ring-opening and reverse additionâ€"fragmentation chain transfer polymerization. Polymer Chemistry, 2012, 3, 2156.	3.9	16
142	Amphiphilic block copolymer selfâ€assemblies of poly(NVP)â€<i>b</i>â€poly(MDOâ€<i>co</i>â€vinyl esters): Tunable dimensions and functionalities. Journal of Polymer Science Part A, 2015, 53, 2699-2710.	2.3	16
143	Core functionalization of semi-crystalline polymeric cylindrical nanoparticles using photo-initiated thiolâ€"ene radical reactions. Polymer Chemistry, 2016, 7, 2337-2341.	3.9	16
144	Reversible ionically-crosslinked single chain nanoparticles as bioinspired and recyclable nanoreactors for<i>N</i>-heterocyclic carbene organocatalysis. Polymer Chemistry, 2018, 9, 5286-5294.	3.9	16

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145	Stereocomplexation in novel degradable amphiphilic block copolymer micelles of poly(ethylene oxide) and poly(benzyl Î±-malate). Soft Matter, 2011, 7, 10987.	2.7	15
146	Exploiting topology-directed nanoparticle disassembly for triggered drug delivery. Biomaterials, 2018, 180, 184-192.	11.4	15
147	Stereoselective ROP of rac- and meso-Lactides Using Achiral TBD as Catalyst. Catalysts, 2020, 10, 620.	3.5	15
148	Stereochemistry-Controlled Mechanical Properties and Degradation in 3D-Printable Photosets. Journal of the American Chemical Society, 2021, 143, 17510-17516.	13.7	15
149	Synthetic strategies, sustainability and biological applications of malic acidâ€"based polymers. Green Materials, 2014, 2, 107-122.	2.1	14
150	Osmium Atoms and Os₂ Molecules Move Faster on Selenium-Doped Compared to Sulfur-Doped Boronic Graphenic Surfaces. Chemistry of Materials, 2015, 27, 5100-5105.	6.7	14
151	Crosslinked Internal Alkyne-Based Stereo Elastomers: Polymers with Tunable Mechanical Properties. Macromolecules, 2021, 54, 4649-4657.	4.8	14
152	Shape Memory Behavior of Biocompatible Polyurethane Stereoelastomers Synthesized <i>via</i> Thiolâ€"Yne Michael Addition. Biomacromolecules, 2022, 23, 1205-1213.	5.4	14
153	Isotactic degradable polyesters derived from O-carboxyanhydrides of l-lactic and l-malic acid using a single organocatalyst/initiator system. European Polymer Journal, 2017, 95, 660-670.	5.4	13
154	pH-Responsive, Functionalizable Spyrocyclic Polycarbonate: A Versatile Platform for Biocompatible Nanoparticles. Biomacromolecules, 2018, 19, 3427-3434.	5.4	13
155	Using Stereochemistry to Control Mechanical Properties in Thiolâ€"Yne Clickâ€Hydrogels. Angewandte Chemie - International Edition, 2021, 60, 25856-25864.	13.8	13
156	Controlling integrin-based adhesion to a degradable electrospun fibre scaffold via SI-ATRP. Journal of Materials Chemistry B, 2016, 4, 7314-7322.	5.8	12
157	Synthesis of degradable poly(Îµ-caprolactone)-based graft copolymers via a â€œgrafting-fromâ€•approach. Polymer Chemistry, 2016, 7, 7126-7134.	3.9	12
158	Application of Modified Amino Acid-Derived Diols as Chain Extenders in the Synthesis of Novel Thermoplastic Polyesterâ€"Urethane Elastomers. ACS Sustainable Chemistry and Engineering, 2017, 5, 6902-6909.	6.7	12
159	Poly(oligo(ethylene glycol) vinyl acetate)s: A Versatile Class of Thermoresponsive and Biocompatible Polymers. Angewandte Chemie, 2017, 129, 9306-9310.	2.0	12
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