Andrew Dove

List of Publications by Year
in descending order

197 papers	15,307 citations	16791 66 h-index	22488 117 g-index
205 all docs	205 docs citations	205 times ranked	11238 citing authors

#	Article	IF	Citations
1	Uniform antibacterial cylindrical nanoparticles for enhancing the strength of nanocomposite hydrogels. Journal of Polymer Science, 2023, 61, 44-55.	2.0	8
2	Sugar-Based Polymers with Stereochemistry-Dependent Degradability and Mechanical Properties. Journal of the American Chemical Society, 2022, 144, 1243-1250.	6.6	24
3	Shape Memory Behavior of Biocompatible Polyurethane Stereoelastomers Synthesized via Thiolâ€“Yne Michael Addition. Biomacromolecules, 2022, 23, 1205-1213.	2.6	14
4	Critical advances and future opportunities in upcycling commodity polymers. Nature, 2022, 603, 803-814.	13.7	404
5	Ultraâ€Tough Elastomers from Stereochemistryâ€Directed Hydrogen Bonding in Isosorbideâ€Based Polymers. Angewandte Chemie, 2022, 134, .	1.6	0
6	Ultraâ€Tough Elastomers from Stereochemistryâ€Directed Hydrogen Bonding in Isosorbideâ€Based Polymers. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
7	Methanolysis of Poly(lactic Acid) Using Catalyst Mixtures and the Kinetics of Methyl Lactate Production. Polymers, 2022, 14, 1763.	2.0	3
8	Stimuli-responsive and core cross-linked micelles developed by NiCCo-PISA of helical poly(aryl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	1.9	4
9	Intrinsically Re-curable Photopolymers Containing Dynamic Thiol-Michael Bonds. Journal of the American Chemical Society, 2022, 144, 11729-11735.	6.6	12
10	Functional nanostructures by NiCCo-PISA of helical poly(aryl isocyanide) copolymers. Polymer Chemistry, 2021, 12, 105-112.	1.9	6
11	Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst. Angewandte Chemie, 2021, 133, 6784-6791.	1.6	20
12	Selective Chemical Upcycling of Mixed Plastics Guided by a Thermally Stable Organocatalyst. Angewandte Chemie - International Edition, 2021, 60, 6710-6717.	7.2	118
13	Organocatalytic Synthesis of Alkyneâ€Functional Aliphatic Polycarbonates via Ringâ€Opening Polymerization of an Eightâ€Memberedâ€Nâ€Cyclic Carbonate. Macromolecular Rapid Communications, 2021, 42, e2000378.	2.0	8
14	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.	5.8	34
15	Controlling the crystallinity and solubility of functional PCL with efficient post-polymerisation modification. Polymer Chemistry, 2021, 12, 1983-1990.	1.9	6
16	Thermally-induced hyperbranching of bromine-containing polyesters by insertion of in situ generated chain-end carbenes. Chemical Communications, 2021, 57, 4275-4278.	2.2	4
17	Renewable and recyclable covalent adaptable networks based on bio-derived lipoic acid. Polymer Chemistry, 2021, 12, 5796-5802.	1.9	23
18	Aliphatic Polycarbonates from Cyclic Carbonate Monomers and Their Application as Biomaterials. Chemical Reviews, 2021, 121, 10865-10907.	23.0	150

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19	Harnessing polymers near equilibrium for better recycling. CheM, 2021, 7, 547-549.	5.8	3
20	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.	23.0	99
21	Customized Fading Scaffolds: Strong Polyorthoester Networks via Thiolâ€“Ene Cross-linking for Cytocompatible Surface-Eroding Materials in 3D Printing. Biomacromolecules, 2021, 22, 1472-1483.	2.6	7
22	Crosslinked Internal Alkyne-Based Stereo Elastomers: Polymers with Tunable Mechanical Properties. Macromolecules, 2021, 54, 4649-4657.	2.2	14
23	4D polycarbonates via stereolithography as scaffolds for soft tissue repair. Nature Communications, 2021, 12, 3771.	5.8	59
24	Precise Tuning of Polymeric Fiber Dimensions to Enhance the Mechanical Properties of Alginate Hydrogel Matrices. Polymers, 2021, 13, 2202.	2.0	10
25	Using Stereochemistry to Control Mechanical Properties in Thiolâ€“Yne Clickâ€Hydrogels. Angewandte Chemie, 2021, 133, 26060-26068.	1.6	0
26	Crystallization-Induced Gelling as a Method to 4D Print Low-Water-Content Non-isocyanate Polyurethane Hydrogels. Chemistry of Materials, 2021, 33, 7194-7202.	3.2	11
27	Using Stereochemistry to Control Mechanical Properties in Thiolâ€“Yne Clickâ€Hydrogels. Angewandte Chemie - International Edition, 2021, 60, 25856-25864.	7.2	13
28	Stereochemistry-Controlled Mechanical Properties and Degradation in 3D-Printable Photosets. Journal of the American Chemical Society, 2021, 143, 17510-17516.	6.6	15
29	Selective Reactivity of Myrcene for Vat Photopolymerization 3D Printing and Postfabrication Surface Modification. Biomacromolecules, 2020, 21, 163-170.	2.6	47
30	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.	2.6	48
31	Unsaturated Poly(ester-urethanes) with Stereochemically Dependent Thermomechanical Properties. Macromolecules, 2020, 53, 174-181.	2.2	17
32	Additiveâ€Free Green Lightâ€Induced Ligation Using BODIPY Triggers. Angewandte Chemie - International Edition, 2020, 59, 2284-2288.	7.2	34
33	Additiveâ€Free Green Lightâ€Induced Ligation Using BODIPY Triggers. Angewandte Chemie, 2020, 132, 2304-2308.	1.6	6
34	Update and Challenges in Carbon Dioxideâ€Based Polycarbonate Synthesis. ChemSusChem, 2020, 13, 469-487.	3.6	121
35	100th Anniversary of Macromolecular Science Viewpoint: Toward Catalytic Chemical Recycling of Waste (and Future) Plastics. ACS Macro Letters, 2020, 9, 1494-1506.	2.3	172
36	Understanding structureâ€“property relationships of main chain cyclopropane in linear polyesters. Polymer Chemistry, 2020, 11, 6251-6258.	1.9	3

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37	Modular Functionalization of Laminarin to Create Value-Added Naturally Derived Macromolecules. Journal of the American Chemical Society, 2020, 142, 19689-19697.	6.6	26
38	Stereoselective ROP of rac- and meso-Lactides Using Achiral TBD as Catalyst. Catalysts, 2020, 10, 620.	1.6	15
39	Exploiting the role of nanoparticle shape in enhancing hydrogel adhesive and mechanical properties. Nature Communications, 2020, 11, 1420.	5.8	167
40	Synthesis of Functionalized Cyclic Carbonates through Commodity Polymer Upcycling. ACS Macro Letters, 2020, 9, 443-447.	2.3	69
41	Elastomeric polyamide biomaterials with stereochemically tuneable mechanical properties and shape memory. Nature Communications, 2020, 11, 3250.	5.8	56
42	3D Printing for the Clinic: Examining Contemporary Polymeric Biomaterials and Their Clinical Utility. Biomacromolecules, 2020, 21, 1037-1059.	2.6	61
43	Dual-catalytic depolymerization of polyethylene terephthalate (PET). Polymer Chemistry, 2020, 11, 1450-1453.	1.9	53
44	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.	2.2	41
45	Nickel-Catalyzed Coordination Polymerization-Induced Self-Assembly of Helical Poly(aryl isocyanide)s. ACS Macro Letters, 2020, 9, 226-232.	2.3	35
46	Selective Organocatalytic Preparation of Trimethylene Carbonate from Oxetane and Carbon Dioxide. ACS Catalysis, 2020, 10, 5399-5404.	5.5	31
47	Stereochemical enhancement of polymer properties. Nature Reviews Chemistry, 2019, 3, 514-535.	13.8	188
48	Synthesis of Monodisperse Cylindrical Nanoparticles via Crystallization-driven Self-assembly of Biodegradable Block Copolymers. Journal of Visualized Experiments, 2019, , .	0.2	2
49	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.	6.6	104
50	Application of functional diols derived from pentaerythritol as chain extenders in the synthesis of novel thermoplastic polyester-urethane elastomers. Polymer Chemistry, 2019, 10, 5236-5241.	1.9	8
51	Terpene- and terpenoid-based polymeric resins for stereolithography 3D printing. Polymer Chemistry, 2019, 10, 5959-5966.	1.9	50
52	Synthesis of Rapidly Surface Eroding Polyorthoesters and Polyacetals Using Thiolâ€“ene Click Chemistry. ACS Macro Letters, 2019, 8, 1268-1274.	2.3	20
53	Polylactide thermosets using a bis(cyclic diester) crosslinker. European Polymer Journal, 2019, 120, 109192.	2.6	7
54	Metal-free synthesis of poly(trimethylene carbonate) by efficient valorization of carbon dioxide. Green Chemistry, 2019, 21, 472-477.	4.6	24

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55	Organocatalysis for depolymerisation. Polymer Chemistry, 2019, 10, 172-186.	1.9	207
56	Catalytically Active Nâ€Heterocyclic Carbene Release from Singleâ€Chain Nanoparticles Following a Thermolysisâ€Driven Unfolding Strategy. Macromolecular Rapid Communications, 2019, 40, e1900071.	2.0	10
57	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.	3.2	68
58	Glyco-Platelets with Controlled Morphologies via Crystallization-Driven Self-Assembly and Their Shape-Dependent Interplay with Macrophages. ACS Macro Letters, 2019, 8, 596-602.	2.3	63
59	Self-catalysed folding of single chain nanoparticles (SCNPs) by NHC-mediated intramolecular benzoin condensation. Polymer Chemistry, 2019, 10, 2282-2289.	1.9	5
60	Polymers from macrolactones: From pheromones to functional materials. Progress in Polymer Science, 2019, 91, 29-50.	11.8	40
61	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.	2.6	35
62	Organische PhotosÃurenâ€•und Photobasenbildner fÃ¼r Polymerisationen: JÃ¼ngste Fortschritte und Herausforderungen. Angewandte Chemie, 2019, 131, 10518-10531.	1.6	11
63	Recent Advances and Challenges in the Design of Organic Photoacid and Photobase Generators for Polymerizations. Angewandte Chemie - International Edition, 2019, 58, 10410-10422.	7.2	132
64	Size and shape affects the antimicrobial activity of quaternized nanoparticles. Journal of Polymer Science Part A, 2019, 57, 255-259.	2.5	47
65	Photoinduced ring-opening polymerisation of <scp>l</scp>-lactide via a photocaged superbase. Chemical Communications, 2018, 54, 6264-6267.	2.2	36
66	Organocatalysed depolymerisation of PET in a fully sustainable cycle using thermally stable protic ionic salt. Green Chemistry, 2018, 20, 1205-1212.	4.6	182
67	Plastics recycling with a difference. Science, 2018, 360, 380-381.	6.0	296
68	Efficient polymerization and post-modification of N-substituted eight-membered cyclic carbonates containing allyl groups. Polymer Chemistry, 2018, 9, 2458-2467.	1.9	18
69	Controlling the Size of Two-Dimensional Polymer Platelets for Water-in-Water Emulsifiers. ACS Central Science, 2018, 4, 63-70.	5.3	94
70	Nonswelling Thiolâ€“Yne Cross-Linked Hydrogel Materials as Cytocompatible Soft Tissue Scaffolds. Biomacromolecules, 2018, 19, 1378-1388.	2.6	67
71	Isoselective Ring-Opening Polymerization of rac-Lactide from Chiral Takemotoâ€™s Organocatalysts: Elucidation of Stereocontrol. ACS Macro Letters, 2018, 7, 1413-1419.	2.3	62
72	Reversible ionically-crosslinked single chain nanoparticles as bioinspired and recyclable nanoreactors forN-heterocyclic carbene organocatalysis. Polymer Chemistry, 2018, 9, 5286-5294.	1.9	16

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73	Self-healing, stretchable and robust interpenetrating network hydrogels. Biomaterials Science, 2018, 6, 2932-2937.	2.6	31
74	Facile synthesis of reversibly crosslinked poly(ionic liquid)-type gels: Recyclable supports for organocatalysis by N-heterocyclic carbenes. European Polymer Journal, 2018, 107, 82-88.	2.6	11
75	On like a light. Nature Catalysis, 2018, 1, 486-487.	16.1	2
76	Exploiting topology-directed nanoparticle disassembly for triggered drug delivery. Biomaterials, 2018, 180, 184-192.	5.7	15
77	Design of synthetic extracellular matrices for probing breast cancer cell growth using robust cyctocompatible nucleophilic thiol-yne addition chemistry. Biomaterials, 2018, 178, 435-447.	5.7	25
78	pH-Responsive, Functionalizable Spyrocyclic Polycarbonate: A Versatile Platform for Biocompatible Nanoparticles. Biomacromolecules, 2018, 19, 3427-3434.	2.6	13
79	Organic Catalysis Outlook: Roadmap for the Future. RSC Polymer Chemistry Series, 2018, , 634-640.	0.1	0
80	Organocatalysis for Depolymerisation. RSC Polymer Chemistry Series, 2018, , 607-633.	0.1	0
81	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.	2.3	63
82	1D vs. 2D shape selectivity in the crystallization-driven self-assembly of polylactide block copolymers. Chemical Science, 2017, 8, 4223-4230.	3.7	165
83	Synthesis, properties and biomedical applications of hydrolytically degradable materials based on aliphatic polyesters and polycarbonates. Biomaterials Science, 2017, 5, 9-21.	2.6	261
84	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.	3.2	12
85	Organocatalytic ring-opening polymerization of l-lactide in bulk: A long standing challenge. European Polymer Journal, 2017, 95, 628-634.	2.6	83
86	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.	2.6	13
87	Poly(oligo(ethylene glycol) vinyl acetate)s: A Versatile Class of Thermoresponsive and Biocompatible Polymers. Angewandte Chemie, 2017, 129, 9306-9310.	1.6	12
88	Poly(oligo(ethylene glycol) vinyl acetate)s: A Versatile Class of Thermoresponsive and Biocompatible Polymers. Angewandte Chemie - International Edition, 2017, 56, 9178-9182.	7.2	51
89	Synthesis of aliphatic polycarbonates with a tuneable thermal response. Polymer Chemistry, 2017, 8, 5082-5090.	1.9	21
90	Precision Epitaxy for Aqueous 1D and 2D Poly(Îµ-caprolactone) Assemblies. Journal of the American Chemical Society, 2017, 139, 16980-16985.	6.6	159

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91	Unlocking the Potential of Poly(Ortho Ester)s: A General Catalytic Approach to the Synthesis of Surfaceâ€Erodible Materials. Angewandte Chemie - International Edition, 2017, 56, 16664-16668.	7.2	24
92	Understanding the CDSA of poly(lactide) containing triblock copolymers. Polymer Chemistry, 2017, 8, 5504-5512.	1.9	43
93	Hydrogel scaffolds for differentiation of adipose-derived stem cells. Chemical Society Reviews, 2017, 46, 6255-6275.	18.7	268
94	Synthesis of Degradable Poly(vinyl alcohol) by Radical Ring-Opening Copolymerization and Ice Recrystallization Inhibition Activity. ACS Macro Letters, 2017, 6, 1404-1408.	2.3	45
95	Unlocking the Potential of Poly(Ortho Ester)s: A General Catalytic Approach to the Synthesis of Surfaceâ€Erodible Materials. Angewandte Chemie, 2017, 129, 16891-16895.	1.6	9
96	Support for learning while debugging in a distributed visual programming language. , 2017, , .		1
97	Special Issue in: Organocatalyzed polymerizations. European Polymer Journal, 2017, 95, 625-627.	2.6	0
98	Independent Control of Elastomer Properties through Stereocontrolled Synthesis. Angewandte Chemie, 2016, 128, 13270-13274.	1.6	5
99	Shape Effect of Glyco-Nanoparticles on Macrophage Cellular Uptake and Immune Response. ACS Macro Letters, 2016, 5, 1059-1064.	2.3	112
100	Postpolymerization Modifications of Alkeneâ€Functional Polycarbonates for the Development of Advanced Materials Biomaterials. Macromolecular Bioscience, 2016, 16, 1762-1775.	2.1	34
101	Nâ€Heterocyclic carbenes for metalâ€free polymerization catalysis: an update. Polymer International, 2016, 65, 16-27.	1.6	55
102	Independent Control of Elastomer Properties through Stereocontrolled Synthesis. Angewandte Chemie - International Edition, 2016, 55, 13076-13080.	7.2	43
103	Synthesis of poly(Ï‰-pentadecalactone)-b-poly(acrylate) diblock copolymers via a combination of enzymatic ring-opening and RAFT polymerization techniques. Journal of Polymer Science Part A, 2016, 54, 3326-3335.	2.5	7
104	Controlling integrin-based adhesion to a degradable electrospun fibre scaffold via SI-ATRP. Journal of Materials Chemistry B, 2016, 4, 7314-7322.	2.9	12
105	Synthesis of degradable poly(Îµ-caprolactone)-based graft copolymers via a â€œgrafting-fromâ€• approach. Polymer Chemistry, 2016, 7, 7126-7134.	1.9	12
106	Synthesis and post-polymerisation modification of an epoxy-functional polycarbonate. Polymer Chemistry, 2016, 7, 7108-7115.	1.9	19
107	Cyclic Graft Copolymer Unimolecular Micelles: Effects of Cyclization on Particle Morphology and Thermoresponsive Behavior. Macromolecules, 2016, 49, 2802-2813.	2.2	60
108	Tunable Thermoplastic Poly(esterâ€“urethane)s Based on Modified Serinol Extenders. Macromolecules, 2016, 49, 2518-2525.	2.2	8

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109	Dependence of Copolymer Sequencing Based on Lactone Ring Size and Îµ-Substitution. ACS Macro Letters, 2016, 5, 346-350.	2.3	30
110	Core functionalization of semi-crystalline polymeric cylindrical nanoparticles using photo-initiated thiolâ€“ene radical reactions. Polymer Chemistry, 2016, 7, 2337-2341.	1.9	16
111	Highly Polarized Alkenes as Organocatalysts for the Polymerization of Lactones and Trimethylene Carbonate. ACS Macro Letters, 2016, 5, 134-138.	2.3	76
112	LondonTube. , 2016, , .		2
113	Amphiphilic block copolymer selfâ€assemblies of poly(NVP)â€bâ€poly(MDOâ€coâ€vinyl esters): Tunable dimensions and functionalities. Journal of Polymer Science Part A, 2015, 53, 2699-2710.	2.5	16
114	Functional Degradable Polymers by Radical Ring-Opening Copolymerization of MDO and Vinyl Bromobutanoate: Synthesis, Degradability and Post-Polymerization Modification. Biomacromolecules, 2015, 16, 2049-2058.	2.6	69
115	Synthesis and Postpolymerization Modification of One-Pot Ï‰-Pentadecalactone Block-like Copolymers. Biomacromolecules, 2015, 16, 3191-3200.	2.6	41
116	Simultaneous Orthogonal Dual-Click Approach to Tough, in-Situ-Forming Hydrogels for Cell Encapsulation. Journal of the American Chemical Society, 2015, 137, 1618-1622.	6.6	197
117	Synthesis of Ï‰-Pentadecalactone Copolymers with Independently Tunable Thermal and Degradation Behavior. Macromolecules, 2015, 48, 950-958.	2.2	78
118	Packing Posets in the Boolean Lattice. Order, 2015, 32, 429-438.	0.3	3
119	Self-assembly of cyclic polymers. Polymer Chemistry, 2015, 6, 2998-3008.	1.9	111
120	Osmium Atoms and Os₂ Molecules Move Faster on Selenium-Doped Compared to Sulfur-Doped Boronic Graphenic Surfaces. Chemistry of Materials, 2015, 27, 5100-5105.	3.2	14
121	N-Heterocyclic carbenes as organocatalysts for polymerizations: trends and frontiers. Polymer Chemistry, 2015, 6, 3185-3200.	1.9	118
122	Dual Catalysis for Selective Ring-Opening Polymerization of Lactones: Evolution toward Simplicity. Journal of the American Chemical Society, 2015, 137, 14439-14445.	6.6	118
123	Nâ€Heterocyclic Olefins as Organocatalysts for Polymerization: Preparation of Wellâ€Defined Poly(propylene oxide). Angewandte Chemie - International Edition, 2015, 54, 9550-9554.	7.2	105
124	Controlling the synthesis of degradable vinyl polymers by xanthate-mediated polymerization. Polymer Chemistry, 2015, 6, 7447-7454.	1.9	51
125	Structural reorganization of cylindrical nanoparticles triggered by polylactide stereocomplexation. Nature Communications, 2014, 5, 5746.	5.8	125
126	Stepâ€Growth Polymerization in the 21st Century. Macromolecular Chemistry and Physics, 2014, 215, 2135-2137.	1.1	18

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127	â€˜Immortalâ€™ ring-opening polymerization of Ï‰-pentadecalactone by Mg(BHT)₂(THF)₂. Polymer Chemistry, 2014, 5, 2691-2694.	1.9	85
128	Fabrication of crystals from single metal atoms. Nature Communications, 2014, 5, 3851.	5.8	31
129	A microstereolithography resin based on thiol-ene chemistry: towards biocompatible 3D extracellular constructs for tissue engineering. Biomaterials Science, 2014, 2, 472-475.	2.6	32
130	Expanding the scope of the crystallization-driven self-assembly of polylactide-containing polymers. Polymer Chemistry, 2014, 5, 1427-1436.	1.9	68
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.	1.9	19
132	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.	2.6	75
133	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.	2.5	18
134	Precious metal carborane polymer nanoparticles: characterisation of micellar formulations and anticancer activity. Faraday Discussions, 2014, 175, 229-240.	1.6	33
135	Chaining up carbon dioxide. Nature Chemistry, 2014, 6, 276-277.	6.6	18
136	Surface grafted poly(Îµ-caprolactone) prepared using organocatalysed ring-opening polymerisation followed by SI-ATRP. Polymer Chemistry, 2014, 5, 2809-2815.	1.9	19
137	Implementation of metal-free ring-opening polymerization in the preparation of aliphatic polycarbonate materials. Progress in Polymer Science, 2014, 39, 1144-1164.	11.8	189
138	Functional Degradable Polymers by Xanthate-Mediated Polymerization. Macromolecules, 2014, 47, 2847-2852.	2.2	76
139	Synthetic strategies, sustainability and biological applications of malic acidâ€“based polymers. Green Materials, 2014, 2, 107-122.	1.1	14
140	Organocatalytic synthesis and post-polymerization functionalization of propargyl-functional poly(carbonate)s. Polymer Chemistry, 2013, 4, 174-183.	1.9	46
141	Benzyl bispidine as an efficient replacement for (â^')-sparteine in ring opening polymerisation. Chemical Science, 2013, 4, 1092.	3.7	39
142	Hollow Block Copolymer Nanoparticles through a Spontaneous One-step Structural Reorganization. ACS Nano, 2013, 7, 1120-1128.	7.3	31
143	Directed differentiation and neurite extension of mouse embryonic stem cell on aligned poly(lactide) nanofibers functionalized with YIGSR peptide. Biomaterials, 2013, 34, 9089-9095.	5.7	130
144	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.	2.9	56

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145	Morpholine-functionalized polycarbonate hydrogels for heavy metal ion sequestration. Polymer Chemistry, 2013, 4, 1260-1270.	1.9	18
146	Synthesis and post-polymerisation modifications of aliphatic poly(carbonate)s prepared by ring-opening polymerisation. Chemical Society Reviews, 2013, 42, 1312-1336.	18.7	302
147	Triarylsulfonium hexafluorophosphate salts as photoactivated acidic catalysts for ring-opening polymerisation. Chemical Communications, 2013, 49, 1205.	2.2	53
148	Organocatalytic, Regioselective Nucleophilic â€œClickâ€•Addition of Thiols to Propiolic Acid Esters for Polymerâ€“Polymer Coupling. Angewandte Chemie - International Edition, 2013, 52, 4132-4136.	7.2	109
149	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.	2.2	77
150	Poly(<scp>d</scp>-glucose carbonate) Block Copolymers: A Platform for Natural Product-Based Nanomaterials with Solvothermatic Characteristics. Biomacromolecules, 2013, 14, 3346-3353.	2.6	38
151	Tuning the Size of Cylindrical Micelles from Poly(<scp>l</scp>-lactide)-b-poly(acrylic acid) Diblock Copolymers Based on Crystallization-Driven Self-Assembly. Macromolecules, 2013, 46, 9074-9082.	2.2	113
152	Fabrication of 3-Dimensional Cellular Constructs via Microstereolithography Using a Simple, Three-Component, Poly(Ethylene Glycol) Acrylate-Based System. Biomacromolecules, 2013, 14, 186-192.	2.6	31
153	Orthogonal Modification of Norbornene-Functional Degradable Polymers. ACS Macro Letters, 2012, 1, 1285-1290.	2.3	64
154	Organic Catalysis for Ring-Opening Polymerization. ACS Macro Letters, 2012, 1, 1409-1412.	2.3	438
155	Degradable graft copolymers by ring-opening and reverse additionâ€“fragmentation chain transfer polymerization. Polymer Chemistry, 2012, 3, 2156.	1.9	16
156	Synthesis and Functionalization of Thiol-Reactive Biodegradable Polymers. Macromolecules, 2012, 45, 1715-1722.	2.2	98
157	Crystallization-driven sphere-to-rod transition of poly(lactide)-b-poly(acrylic acid) diblock copolymers: mechanism and kinetics. Soft Matter, 2012, 8, 7408.	1.2	101
158	Nanosponge Formation from Organocatalytically Synthesized Poly(carbonate) Copolymers. ACS Macro Letters, 2012, 1, 915-918.	2.3	56
159	Emerging investigators. Polymer Chemistry, 2011, 2, 269.	1.9	0
160	Successful visual and end-user programming systems from industry. , 2011, , .		0
161	Organocatalytic Synthesis and Postpolymerization Functionalization of Allyl-Functional Poly(carbonate)s. Macromolecules, 2011, 44, 2084-2091.	2.2	134
162	Metal-Free Functionalization of Linear Polyurethanes by Thiol-Maleimide Coupling Reactions. Macromolecules, 2011, 44, 7874-7878.	2.2	57

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163	Ring-opening polymerization of an O-carboxyanhydride monomer derived from l-malic acid. Polymer Chemistry, 2011, 2, 2204.	1.9	71
164	Additive-Free Clicking for Polymer Functionalization and Coupling by Tetrazineâ€“Norbornene Chemistry. Journal of the American Chemical Society, 2011, 133, 13828-13831.	6.6	175
165	Organocatalytic synthesis of astaxanthin-containing poly(lactide)s. Polymer Chemistry, 2011, 2, 595-600.	1.9	18
166	Cylindrical micelles from the living crystallization-driven self-assembly of poly(lactide)-containing block copolymers. Chemical Science, 2011, 2, 955-960.	3.7	310
167	Stereocomplexation in novel degradable amphiphilic block copolymer micelles of poly(ethylene oxide) and poly(benzyl Î±-malate). Soft Matter, 2011, 7, 10987.	1.2	15
168	Synthesis and postâ€polymerization modification of maleimideâ€containing polymers by â€˜thiolâ€eneâ€™ click and Dielsâ€“Alder chemistries. Polymer International, 2011, 60, 1149-1157.	1.6	91
169	Tetrazineâ€Norbornene Click Reactions to Functionalize Degradable Polymers Derived from Lactide. Macromolecular Rapid Communications, 2011, 32, 1362-1366.	2.0	51
170	Development of Aminoâ€“Oxazoline and Aminoâ€“Thiazoline Organic Catalysts for the Ringâ€Opening Polymerisation of Lactide. Chemistry - A European Journal, 2010, 16, 6099-6105.	1.7	33
171	Synthesis of Poly(lactide)s with Modified Thermal and Mechanical Properties. Macromolecular Rapid Communications, 2010, 31, 1923-1937.	2.0	128
172	Synthesis of Stereoregular Cyclic Poly(lactide)s via â€œThiolâ€”Eneâ€•Click Chemistry. Macromolecules, 2010, 43, 6538-6541.	2.2	76
173	Synthesis and Organocatalytic Ring-Opening Polymerization of Cyclic Esters Derived from <scp>l</scp>-Malic Acid. Biomacromolecules, 2010, 11, 1930-1939.	2.6	63
174	Towards poly(ester) nanoparticles: recent advances in the synthesis of functional poly(ester)s by ring-opening polymerization. Polymer Chemistry, 2010, 1, 260.	1.9	154
175	Stereocontrolled ring-opening polymerisation of lactide. Chemical Society Reviews, 2010, 39, 486-494.	18.7	755
176	One-Pot Synthesis of Î±,Ï‰-Chain End Functional, Stereoregular, Star-Shaped Poly(lactide). Macromolecules, 2009, 42, 141-147.	2.2	84
177	Propylene Polymerization with Cyclopentadienyltitanium(IV) Hydroxylaminato Complexes. Organometallics, 2009, 28, 405-412.	1.1	19
178	Controlled ring-opening polymerisation of cyclic esters: polymer blocks in self-assembled nanostructures. Chemical Communications, 2008, , 6446.	2.2	279
179	Metal free thiolâ€“maleimide â€˜Clickâ€™ reaction as a mild functionalisation strategy for degradable polymers. Chemical Communications, 2008, , 5158.	2.2	186
180	Organocatalytic Ring Opening Polymerization of Trimethylene Carbonate. Biomacromolecules, 2007, 8, 153-160.	2.6	302

#	Article	IF	Citations
181	N-Heterocyclic Carbenes as Organic Catalysts. , 2006, , 275-296.		22
182	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.	6.6	209
183	Stereoselective polymerization of rac- and meso-lactide catalyzed by sterically encumbered N-heterocyclic carbenes. Chemical Communications, 2006, , 2881.	2.2	169
184	N-Heterocyclic carbenes: Effective organic catalysts for living polymerization. Polymer, 2006, 47, 4018-4025.	1.8	141
185	Alcohol Adducts ofN-Heterocyclic Carbenes:Â Latent Catalysts for the Thermally-Controlled Living Polymerization of Cyclic Esters. Macromolecules, 2006, 39, 5617-5628.	2.2	144
186	Exploration, Optimization, and Application of Supramolecular Thioureaâ^'Amine Catalysts for the Synthesis of Lactide (Co)polymers. Macromolecules, 2006, 39, 7863-7871.	2.2	371
187	Guanidine and Amidine Organocatalysts for Ring-Opening Polymerization of Cyclic Esters. Macromolecules, 2006, 39, 8574-8583.	2.2	689
188	Single-Component Catalyst/Initiators for the Organocatalytic Ring-Opening Polymerization of Lactide. Journal of the American Chemical Society, 2005, 127, 9079-9084.	6.6	168
189	Latent, Thermally Activated Organic Catalysts for the On-Demand Living Polymerization of Lactide. Angewandte Chemie - International Edition, 2005, 44, 4964-4968.	7.2	142
190	Cyclopentadienyl titanium hydroxylaminato complexes as highly active catalysts for the polymerization of propylene. Chemical Communications, 2005, , 2152.	2.2	33
191	Thiourea-Based Bifunctional Organocatalysis:Â Supramolecular Recognition for Living Polymerization. Journal of the American Chemical Society, 2005, 127, 13798-13799.	6.6	380
192	Magnesium and zinc complexes of a potentially tridentate Î²-diketiminate ligand. Dalton Transactions, 2004, , 570-578.	1.6	183
193	Low coordinate magnesium chemistry supported by a bulky Î²-diketiminate ligand. Dalton Transactions, 2003, , 3088-3097.	1.6	109
194	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.	2.2	39
195	A well defined tin(ii) initiator for the living polymerisation of lactide. Chemical Communications, 2001, , 283-284.	2.2	135
196	Using an object-oriented database as a repository for process configuration data. ISA Transactions, 1997, 36, 339-343.	3.1	0
197	Metal-Free Catalysis in Ring-Opening Polymerization. , 0, , 357-378.		9