

Robert M Waymouth

List of Publications by Year in descending order

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279
papers

27,516
citations

4960

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docs citations

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times ranked

13602
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereospecific Olefin Polymerization with Chiral Metallocene Catalysts. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1143-1170.	4.4	2,623
2	Organocatalytic Ring-Opening Polymerization. <i>Chemical Reviews</i> , 2007, 107, 5813-5840.	47.7	1,304
3	Group 4 ansa-Cyclopentadienyl-Amido Catalysts for Olefin Polymerization. <i>Chemical Reviews</i> , 1998, 98, 2587-2598.	47.7	958
4	Organocatalysis: Opportunities and Challenges for Polymer Synthesis. <i>Macromolecules</i> , 2010, 43, 2093-2107.	4.8	793
5	Guanidine and Amidine Organocatalysts for Ring-Opening Polymerization of Cyclic Esters. <i>Macromolecules</i> , 2006, 39, 8574-8583.	4.8	689
6	Catalysis as an Enabling Science for Sustainable Polymers. <i>Chemical Reviews</i> , 2018, 118, 839-885.	47.7	669
7	Stereospezifische Olefinpolymerisation mit chiralen Metallocenkatalysatoren. <i>Angewandte Chemie</i> , 1995, 107, 1255-1283.	2.0	583
8	Enantioselective homogeneous catalysis involving transition-metal-allyl intermediates. <i>Chemical Reviews</i> , 1989, 89, 257-276.	47.7	492
9	Triazabicyclodecene: A Simple Bifunctional Organocatalyst for Acyl Transfer and Ring-Opening Polymerization of Cyclic Esters. <i>Journal of the American Chemical Society</i> , 2006, 128, 4556-4557.	13.7	479
10	Thiourea-Based Bifunctional Organocatalysis: Supramolecular Recognition for Living Polymerization. <i>Journal of the American Chemical Society</i> , 2005, 127, 13798-13799.	13.7	380
11	Exploration, Optimization, and Application of Supramolecular Thiourea-Amine Catalysts for the Synthesis of Lactide (Co)polymers. <i>Macromolecules</i> , 2006, 39, 7863-7871.	4.8	371
12	Zwitterionic Polymerization of Lactide to Cyclic Poly(Lactide) by Using N-Heterocyclic Carbene Organocatalysts. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2627-2630.	13.8	338
13	Expanding the Catalytic Activity of Nucleophilic N-Heterocyclic Carbenes for Transesterification Reactions. <i>Organic Letters</i> , 2002, 4, 3587-3590.	4.6	322
14	Organocatalytic Ring Opening Polymerization of Trimethylene Carbonate. <i>Biomacromolecules</i> , 2007, 8, 153-160.	5.4	302
15	In Situ Generation of Carbenes: A General and Versatile Platform for Organocatalytic Living Polymerization. <i>Journal of the American Chemical Society</i> , 2003, 125, 3046-3056.	13.7	301
16	Spontaneous generation of hydrogen peroxide from aqueous microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19294-19298.	7.1	287
17	A Renewable Lignin-Lactide Copolymer and Application in Biobased Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1231-1238.	6.7	282
18	Enantioselective cyclopolymerization of 1,5-hexadiene catalyzed by chiral zirconocenes: a novel strategy for the synthesis of optically active polymers with chirality in the main chain. <i>Journal of the American Chemical Society</i> , 1993, 115, 91-98.	13.7	260

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19	Phosphazene Bases: A New Category of Organocatalysts for the Living Ring-Opening Polymerization of Cyclic Esters. <i>Macromolecules</i> , 2007, 40, 4154-4158.	4.8	243
20	The Reaction Mechanism for the Organocatalytic Ring-Opening Polymerization of ϵ -Lactide Using a Guanidine-Based Catalyst: Hydrogen-Bonded or Covalently Bound?. <i>Journal of the American Chemical Society</i> , 2008, 130, 6749-6754.	13.7	230
21	Zwitterionic Ring-Opening Polymerization for the Synthesis of High Molecular Weight Cyclic Polymers. <i>Accounts of Chemical Research</i> , 2013, 46, 2585-2596.	15.6	226
22	Enantioselective cyclopolymerization: optically active poly(methylene-1,3-cyclopentane). <i>Journal of the American Chemical Society</i> , 1991, 113, 6270-6271.	13.7	224
23	Fast and selective ring-opening polymerizations by alkoxides and thioureas. <i>Nature Chemistry</i> , 2016, 8, 1047-1053.	13.6	224
24	Homogeneous Ziegler-Natta polymerization of functionalized monomers catalyzed by cationic Group IV metallocenes. <i>Journal of the American Chemical Society</i> , 1992, 114, 9679-9680.	13.7	215
25	Urea Anions: Simple, Fast, and Selective Catalysts for Ring-Opening Polymerizations. <i>Journal of the American Chemical Society</i> , 2017, 139, 1645-1652.	13.7	214
26	Tagging alcohols with cyclic carbonate: a versatile equivalent of (meth)acrylate for ring-opening polymerization. <i>Chemical Communications</i> , 2008, , 114-116.	4.1	213
27	Charge-altering releasable transporters (CARTs) for the delivery and release of mRNA in living animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E448-E456.	7.1	207
28	Accurate Structural Control and Block Formation in the Living Polymerization of 1,3-Dienes by Nitroxide-Mediated Procedures. <i>Macromolecules</i> , 2000, 33, 363-370.	4.8	206
29	Zwitterionic Polymerization: A Kinetic Strategy for the Controlled Synthesis of Cyclic Polylactide. <i>Journal of the American Chemical Society</i> , 2009, 131, 4884-4891.	13.7	200
30	Organic Spirocyclic Initiators for the Ring-Expansion Polymerization of β -Lactones. <i>Journal of the American Chemical Society</i> , 2007, 129, 8414-8415.	13.7	197
31	A General and Versatile Approach to Thermally Generated N-Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2004, 10, 4073-4079.	3.3	191
32	Ethylene/Norbornene Copolymerizations with Titanium CpA Catalysts. <i>Macromolecules</i> , 1999, 32, 2816-2825.	4.8	177
33	Cyclic Guanidine Organic Catalysts: What Is Magic About Triazabicyclodecene?. <i>Journal of Organic Chemistry</i> , 2009, 74, 9490-9496.	3.2	175
34	1,2-Dithiolane-Derived Dynamic, Covalent Materials: Cooperative Self-Assembly and Reversible Cross-Linking. <i>Journal of the American Chemical Society</i> , 2017, 139, 3822-3833.	13.7	174
35	Organocatalytic depolymerization of poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , 2011, 49, 1273-1281.	2.3	172
36	Stereoselective polymerization of rac- and meso-lactide catalyzed by sterically encumbered N-heterocyclic carbenes. <i>Chemical Communications</i> , 2006, , 2881.	4.1	169

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37	Single-Component Catalyst/Initiators for the Organocatalytic Ring-Opening Polymerization of Lactide. <i>Journal of the American Chemical Society</i> , 2005, 127, 9079-9084.	13.7	168
38	Biodegradation of polystyrene wastes in yellow mealworms (larvae of <i>Tenebrio molitor</i> Linnaeus): Factors affecting biodegradation rates and the ability of polystyrene-fed larvae to complete their life cycle. <i>Chemosphere</i> , 2018, 191, 979-989.	8.2	168
39	Stereoblock Polypropylene: Ligand Effects on the Stereospecificity of 2-Arylindene Zirconocene Catalysts. <i>Journal of the American Chemical Society</i> , 1995, 117, 11586-11587.	13.7	165
40	Crystallization of Cyclic Polymers: Synthesis and Crystallization Behavior of High Molecular Weight Cyclic Poly(μ -caprolactone)s. <i>Macromolecules</i> , 2011, 44, 2773-2779.	4.8	162
41	Enhanced mRNA delivery into lymphocytes enabled by lipid-varied libraries of charge-altering releasable transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5859-E5866.	7.1	162
42	N-Heterocyclic Carbenes for the Organocatalytic Ring-Opening Polymerization of μ -Caprolactone. <i>Macromolecules</i> , 2009, 42, 1634-1639.	4.8	158
43	Diastereoselectivity in the homogeneous cyclopolymerization of 1,5-hexadiene. <i>Journal of the American Chemical Society</i> , 1990, 112, 4953-4954.	13.7	157
44	Ring opening metathesis polymerization on non-covalently functionalized single-walled carbon nanotubes. Electronic supplementary information (ESI) available: full experimental details for compounds 2a-c, nanotube preparation and microscopy analysis. See http://www.rsc.org/suppdata/cc/b2/b211194b/ . <i>Chemical Communications</i> , 2003, , 190-191.	4.1	150
45	Alcohol Adducts of N-Heterocyclic Carbenes: Latent Catalysts for the Thermally-Controlled Living Polymerization of Cyclic Esters. <i>Macromolecules</i> , 2006, 39, 5617-5628.	4.8	144
46	Latent, Thermally Activated Organic Catalysts for the On-Demand Living Polymerization of Lactide. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4964-4968.	13.8	142
47	Selectivity in Propylene Polymerization with Group 4 Cp*Amido Catalysts. <i>Organometallics</i> , 1997, 16, 2879-2885.	2.3	141
48	N-Heterocyclic carbenes: Effective organic catalysts for living polymerization. <i>Polymer</i> , 2006, 47, 4018-4025.	3.8	141
49	Zwitterionic Copolymerization: Synthesis of Cyclic Gradient Copolymers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6388-6391.	13.8	138
50	2-Arylindene Metallocenes: Conformationally Dynamic Catalysts To Control the Structure and Properties of Polypropylenes. <i>Accounts of Chemical Research</i> , 2002, 35, 765-773.	15.6	136
51	Selective Catalytic Oxidation of Glycerol to Dihydroxyacetone. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9456-9459.	13.8	136
52	Amidine-Mediated Zwitterionic Polymerization of Lactide. <i>ACS Macro Letters</i> , 2012, 1, 1113-1115.	4.8	136
53	Structurally Dynamic Hydrogels Derived from 1,2-Dithiolanes. <i>Journal of the American Chemical Society</i> , 2015, 137, 5650-5653.	13.7	135
54	Effect of Metal on the Stereospecificity of 2-Arylindene Catalysts for Elastomeric Polypropylene. <i>Journal of the American Chemical Society</i> , 1997, 119, 11174-11182.	13.7	133

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55	Ubiquity of polystyrene digestion and biodegradation within yellow mealworms, larvae of <i>Tenebrio molitor</i> Linnaeus (Coleoptera: Tenebrionidae). <i>Chemosphere</i> , 2018, 212, 262-271.	8.2	130
56	Influence of polymerization conditions on the copolymerization of styrene with ethylene using Me ₂ Si(Me ₄ Cp)(N-tert-butyl)TiCl ₂ /methylaluminoxane Ziegler-Natta catalysts. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 1071-1083.	2.2	128
57	Synthesis of Poly(olefin) Graft Copolymers by a Combination of Metallocene and ϵ -Living Free Radical Polymerization Techniques. <i>Macromolecules</i> , 1998, 31, 4396-4398.	4.8	127
58	Zirconium-catalyzed diene and alkyl-alkene coupling reactions with magnesium reagents. <i>Journal of the American Chemical Society</i> , 1991, 113, 6268-6270.	13.7	123
59	Organocatalytic Living Ring-Opening Polymerization of Cyclic Carbosiloxanes. <i>Organic Letters</i> , 2006, 8, 4683-4686.	4.6	120
60	Recent progress on the synthesis of cyclic polymers via ring expansion strategies. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2892-2902.	2.3	117
61	Mixed Micelle Formation through Stereocomplexation between Enantiomeric Poly(lactide) Block Copolymers. <i>Macromolecules</i> , 2009, 42, 25-29.	4.8	113
62	Group Transfer Polymerization of Acrylates Catalyzed by N-Heterocyclic Carbenes. <i>Macromolecules</i> , 2008, 41, 7399-7404.	4.8	112
63	Oligocarbonate Molecular Transporters: Oligomerization-Based Syntheses and Cell-Penetrating Studies. <i>Journal of the American Chemical Society</i> , 2009, 131, 16401-16403.	13.7	112
64	Simple Approach to Stabilized Micelles Employing Miktoarm Terpolymers and Stereocomplexes with Application in Paclitaxel Delivery. <i>Biomacromolecules</i> , 2009, 10, 1460-1468.	5.4	111
65	Organic Ring-Opening Polymerization Catalysts: Reactivity Control by Balancing Acidity. <i>Macromolecules</i> , 2018, 51, 2932-2938.	4.8	110
66	Designed guanidinium-rich amphipathic oligocarbonate molecular transporters complex, deliver and release siRNA in cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13171-13176.	7.1	107
67	Condensing water vapor to droplets generates hydrogen peroxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30934-30941.	7.1	104
68	Metallocene/Borate-Catalyzed Polymerization of Amino-Functionalized $\hat{\pm}$ -Olefins. <i>Macromolecules</i> , 1998, 31, 2019-2027.	4.8	102
69	Thermoresponsive nanostructured polycarbonate block copolymers as biodegradable therapeutic delivery carriers. <i>Biomaterials</i> , 2011, 32, 5505-5514.	11.4	102
70	Titanium-Mediated Syndiospecific Styrene Polymerizations: A Role of Oxidation State. <i>Journal of the American Chemical Society</i> , 2001, 123, 12093-12094.	13.7	101
71	Silver(I) $\hat{\sim}$ Carbene Complexes/Ionic Liquids: A Novel N-Heterocyclic Carbene Delivery Agents for Organocatalytic Transformations. <i>Journal of Organic Chemistry</i> , 2005, 70, 2391-2393.	3.2	99
72	Organocatalytic Approach to Amphiphilic Comb-Block Copolymers Capable of Stereocomplexation and Self-Assembly. <i>Biomacromolecules</i> , 2008, 9, 3051-3056.	5.4	99

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73	Catalytic Carbonylative Spirolactonization of Hydroxycyclopropanols. <i>Journal of the American Chemical Society</i> , 2016, 138, 10693-10699.	13.7	97
74	Cell-Penetrating, Guanidinium-Rich Oligophosphoesters: Effective and Versatile Molecular Transporters for Drug and Probe Delivery. <i>Journal of the American Chemical Society</i> , 2016, 138, 3510-3517.	13.7	96
75	Mechanism and Stereochemistry of the Zirconocene-Catalyzed Cyclomagnesiation of Dienes. <i>Journal of the American Chemical Society</i> , 1994, 116, 1845-1854.	13.7	95
76	Ethylene~Propylene Copolymerization with 2-Arylidene Zirconocenes. <i>Macromolecules</i> , 1998, 31, 1-6.	4.8	95
77	Crystallization of the $\hat{1}\pm$ and $\hat{1}^3$ Forms of Isotactic Polypropylene as a Tool To Test the Degree of Segregation of Defects in the Polymer Chains. <i>Macromolecules</i> , 2002, 35, 3622-3629.	4.8	95
78	Aerobic Alcohol Oxidation with Cationic Palladium Complexes: Insights into Catalyst Design and Decomposition. <i>Organometallics</i> , 2007, 26, 5447-5453.	2.3	93
79	Chain transfer to aluminum in the homogeneous cyclopolymerization of 1,5-hexadiene. <i>Macromolecules</i> , 1992, 25, 2282-2284.	4.8	92
80	mRNA vaccination with charge-altering releasable transporters elicits human T cell responses and cures established tumors in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9153-E9161.	7.1	92
81	Chemoselective Pd-Catalyzed Oxidation of Polyols: Synthetic Scope and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2013, 135, 7593-7602.	13.7	91
82	Zwitterionic Polymerization to Generate High Molecular Weight Cyclic Poly(Carbosiloxane)s. <i>Journal of the American Chemical Society</i> , 2013, 135, 18738-18741.	13.7	90
83	Synthesis, structure, and olefin polymerization with nickel(ii) N-heterocyclic carbene enolates. <i>Chemical Communications</i> , 2005, , 5693.	4.1	86
84	Metal-Free Catalyzed Ring-Opening Polymerization of $\hat{1}^2$ -Lactones: Synthesis of Amphiphilic Triblock Copolymers Based on Poly(dimethylmalic acid). <i>Macromolecules</i> , 2006, 39, 4001-4008.	4.8	86
85	Local Delivery of $\langle i \rangle O \times 40 \langle /i \rangle$, $\langle i \rangle Cd80 \langle /i \rangle$, and $\langle i \rangle Cd86 \langle /i \rangle$ mRNA Kindles Global Anticancer Immunity. <i>Cancer Research</i> , 2019, 79, 1624-1634.	0.9	85
86	Chain End Functionalization in Nitroxide-Mediated $\hat{a} \hat{e} \hat{l} i \hat{v} i \hat{n} \hat{g} \hat{a} \hat{e} \hat{f} \hat{r} \hat{e} \hat{e}$ Free Radical Polymerizations. <i>Macromolecules</i> , 2001, 34, 3856-3862.	4.8	83
87	Polymerizing Base Sensitive Cyclic Carbonates Using Acid Catalysis. <i>ACS Macro Letters</i> , 2013, 2, 306-312.	4.8	83
88	A Simple and Facile Approach to Aliphatic $\langle i \rangle N \langle /i \rangle$ -Substituted Functional Eight-Membered Cyclic Carbonates and Their Organocatalytic Polymerization. <i>Journal of the American Chemical Society</i> , 2015, 137, 13851-13860.	13.7	81
89	Structure and Reactivity of an Allylpalladium N-Heterocyclic Carbene Enolate Complex. <i>Organometallics</i> , 2004, 23, 2835-2837.	2.3	76
90	Stereocomplexation in Cyclic and Linear Polylactide Blends. <i>Macromolecules</i> , 2012, 45, 595-598.	4.8	76

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91	Acyclic Guanidines as Organic Catalysts for Living Polymerization of Lactide. <i>Macromolecules</i> , 2010, 43, 1660-1664.	4.8	74
92	Propylene Polymerization with Unbridged Metallocenes: Ligand Effects on the Selectivity for Elastomeric Polypropylene. <i>Organometallics</i> , 1997, 16, 5909-5916.	2.3	73
93	Propylene Polymerization with Chiral and Achiral Unbridged 2-Arylindene Metallocenes. <i>Organometallics</i> , 1997, 16, 3635-3639.	2.3	71
94	Strategies for Synthesis of Elastomeric Polypropylene: Fluxional Metallocenes with C ₁ -Symmetry. <i>Journal of the American Chemical Society</i> , 1998, 120, 2039-2046.	13.7	71
95	Synthesis of Unbridged Bis(2-R-indenyl)zirconocenes Containing Functional Groups and Investigations in Propylene Polymerization. <i>Organometallics</i> , 1999, 18, 4147-4155.	2.3	70
96	Elastomeric Polypropylenes from Unbridged (2-Phenylindene)zirconocene Catalysts: Thermal Characterization and Mechanical Properties. <i>Macromolecules</i> , 1998, 31, 6908-6916.	4.8	68
97	Alternating Stereospecific Copolymerization of Ethylene and Propylene with Metallocene Catalysts. <i>Journal of the American Chemical Society</i> , 2001, 123, 9555-9563.	13.7	68
98	Programmable High-Throughput Platform for the Rapid and Scalable Synthesis of Polyester and Polycarbonate Libraries. <i>Journal of the American Chemical Society</i> , 2019, 141, 8921-8927.	13.7	68
99	Rheological and Thermal Properties of Elastomeric Polypropylene. <i>Macromolecules</i> , 1998, 31, 5343-5351.	4.8	66
100	Ring-Opening Reactions of Oxabicyclic Alkene Compounds: Enantioselective Hydride and Ethyl Additions Catalyzed by Group 4 Metals. <i>Journal of Organic Chemistry</i> , 2000, 65, 3902-3909.	3.2	65
101	Copolymerization Behavior of Unbridged Indenyl Metallocenes: Substituent Effects on the Degree of Comonomer Incorporation. <i>Macromolecules</i> , 2002, 35, 637-643.	4.8	65
102	Metallocene/Borate-Catalyzed Copolymerization of 5-N,N-Diisopropylamino-1-pentene with 1-Hexene or 4-Methyl-1-pentene. <i>Macromolecules</i> , 1999, 32, 14-20.	4.8	63
103	Zwitterionic Ring-Opening Polymerization: Models for Kinetics of Cyclic Poly(caprolactone) Synthesis. <i>Macromolecules</i> , 2014, 47, 2955-2963.	4.8	63
104	Alternating Ethene/Propene Copolymerization with a Metallocene Catalyst. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 922-925.	13.8	62
105	Morphology of Thermoplastic Elastomers: Elastomeric Polypropylene. <i>Macromolecules</i> , 2002, 35, 2654-2666.	4.8	62
106	New Ground for Organic Catalysis: A Ring-Opening Polymerization Approach to Hydrogels. <i>Biomacromolecules</i> , 2007, 8, 3294-3297.	5.4	62
107	Transient Ru-methyl formate intermediates generated with bifunctional transfer hydrogenation catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2246-2250.	7.1	62
108	Organocatalytic Ring-Opening Polymerization of Morpholinones: New Strategies to Functionalized Polyesters. <i>Journal of the American Chemical Society</i> , 2014, 136, 9252-9255.	13.7	61

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109	Oligo(serine ester) Charge-Altering Releasable Transporters: Organocatalytic Ring-Opening Polymerization and their Use for <i>in Vitro</i> and <i>in Vivo</i> mRNA Delivery. <i>Journal of the American Chemical Society</i> , 2019, 141, 8416-8421.	13.7	61
110	Effect of Tacticity on Coil Dimensions and Thermodynamic Properties of Polypropylene. <i>Macromolecules</i> , 2002, 35, 5061-5068.	4.8	59
111	Zwitterionic Ring Opening Polymerization with Isothioureas. <i>ACS Macro Letters</i> , 2014, 3, 1024-1028.	4.8	59
112	Bioorthogonal Catalysis: A General Method To Evaluate Metal-Catalyzed Reactions in Real Time in Living Systems Using a Cellular Luciferase Reporter System. <i>Bioconjugate Chemistry</i> , 2016, 27, 376-382.	3.6	58
113	Micelles of Imidazolium-Functionalized Polystyrene Diblock Copolymers Investigated with Neutron and Light Scattering. <i>Langmuir</i> , 2004, 20, 596-605.	3.5	57
114	Experimental and Computational Studies on the Mechanism of Zwitterionic Ring-Opening Polymerization of ϵ -Valerolactone with N-Heterocyclic Carbenes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6553-6560.	2.6	57
115	Expanding the range of polyhydroxyalkanoates synthesized by methanotrophic bacteria through the utilization of omega-hydroxyalkanoate co-substrates. <i>AMB Express</i> , 2017, 7, 118.	3.0	55
116	Elastomeric Polypropylene from Unbridged 2-Arylindenyl Zirconocenes: Modeling Polymerization Behavior Usingansa-Metallocene Analogues. <i>Journal of the American Chemical Society</i> , 1998, 120, 11316-11322.	13.7	54
117	Mixed Ligand Metallocenes as Catalysts for Elastomeric Polypropylene. <i>Organometallics</i> , 1999, 18, 380-388.	2.3	54
118	Nucleation and Crystallization of Low-Crystallinity Polypropylene Followed in Situ by Hot Stage Atomic Force Microscopy. <i>Macromolecules</i> , 2003, 36, 2412-2418.	4.8	54
119	Facile Synthesis of Functionalized Lactones and Organocatalytic Ring-Opening Polymerization. <i>ACS Macro Letters</i> , 2012, 1, 845-847.	4.8	54
120	[H(OEt) ₂] ⁺ and [Ph ₃ C] ⁺ Salts of the Borate Anions [B(CF ₃) ₄] ⁻ , [(CF ₃) ₃ BCN] ⁻ , and [B(CN) ₄] ⁻ . <i>Organometallics</i> , 2005, 24, 5103-5109.	2.3	53
121	Selective Catalytic Oxidation of Unprotected Carbohydrates. <i>ACS Catalysis</i> , 2016, 6, 4653-4659.	11.2	53
122	A Distinctive Organocatalytic Approach to Complex Macromolecular Architectures. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4719-4721.	13.8	52
123	Synthesis and Topological Trapping of Cyclic Poly(alkylene phosphates). <i>Macromolecules</i> , 2014, 47, 8224-8230.	4.8	52
124	Enantio- and Diastereoselective Catalytic Carboalumination of 1-Alkenes and $\hat{I}\pm, \hat{I}\%$ -Dienes with Cationic Zirconocenes: Scope and Mechanism. <i>Organometallics</i> , 1998, 17, 5728-5745.	2.3	51
125	Stereospecific Octahedral Group 4 Bis(phenolate) Ether Complexes for Olefin Polymerization. <i>Journal of the American Chemical Society</i> , 2010, 132, 5566-5567.	13.7	51
126	Chiral polymers via cyclopolymerization. <i>Journal of Molecular Catalysis</i> , 1992, 76, 189-194.	1.2	50

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127	Control of Sequence Distribution of Ethylene Copolymers: Influence of Comonomer Sequence on the Melting Behavior of Ethylene Copolymers. <i>Macromolecules</i> , 2003, 36, 2454-2463.	4.8	50
128	Homolysis of Weak Ti-O Bonds: Experimental and Theoretical Studies of Titanium Oxygen Bonds Derived from Stable Nitroxyl Radicals. <i>Journal of the American Chemical Society</i> , 2005, 127, 3807-3816.	13.7	49
129	Hierarchical Supermolecular Structures for Sustained Drug Release. <i>Small</i> , 2009, 5, 1504-1507.	10.0	49
130	Catalytic Role of Multinuclear Palladium-Oxygen Intermediates in Aerobic Oxidation Followed by Hydrogen Peroxide Disproportionation. <i>Journal of the American Chemical Society</i> , 2015, 137, 13632-13646.	13.7	49
131	Methane or methanol-oxidation dependent synthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by obligate type II methanotrophs. <i>Process Biochemistry</i> , 2016, 51, 561-567.	3.7	49
132	Mechanism of Catalytic Oxidation of Styrenes with Hydrogen Peroxide in the Presence of Cationic Palladium(II) Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 12495-12503.	13.7	49
133	Kinetics of Propylene Polymerization Using Bis(2-phenylindenyl)zirconium Dichloride/Methylaluminoxane. <i>Journal of the American Chemical Society</i> , 2000, 122, 11275-11285.	13.7	48
134	High Comonomer Selectivity in Ethylene/Hexene Copolymerization by Unbridged Indenyl Metallocenes. <i>Macromolecules</i> , 2003, 36, 3815-3820.	4.8	48
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