Eugene Y-X Chen

List of Publications by Year in descending order

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186 12,132 58 99
papers citations h-index g-index

191 191 191 5912 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Chemically recyclable polymers: a circular economy approach to sustainability. Green Chemistry, 2017, 19, 3692-3706.	9.0	557
2	Coordination Polymerization of Polar Vinyl Monomers by Single-Site Metal Catalysts. Chemical Reviews, 2009, 109, 5157-5214.	47.7	513
3	Completely recyclable biopolymers with linear and cyclic topologies via ring-opening polymerization of \hat{l}^3 -butyrolactone. Nature Chemistry, 2016, 8, 42-49.	13.6	461
4	A synthetic polymer system with repeatable chemical recyclability. Science, 2018, 360, 398-403.	12.6	437
5	Critical advances and future opportunities in upcycling commodity polymers. Nature, 2022, 603, 803-814.	27.8	404
6	Bio-based polymers with performance-advantaged properties. Nature Reviews Materials, 2022, 7, 83-103.	48.7	268
7	Alaneâ€Based Classical and Frustrated Lewis Pairs in Polymer Synthesis: Rapid Polymerization of MMA and Naturally Renewable Methylene Butyrolactones into Highâ€Molecularâ€Weight Polymers. Angewandte Chemie - International Edition, 2010, 49, 10158-10162.	13.8	264
8	Packaging materials with desired mechanical and barrier properties and full chemical recyclability. Nature Communications, 2019, 10, 3559.	12.8	245
9	Toward Infinitely Recyclable Plastics Derived from Renewable Cyclic Esters. CheM, 2019, 5, 284-312.	11.7	239
10	Towards Truly Sustainable Polymers: A Metalâ€Free Recyclable Polyester from Biorenewable Nonâ€Strained γâ€Butyrolactone. Angewandte Chemie - International Edition, 2016, 55, 4188-4193.	13.8	217
11	Polymerization of Polar Monomers Mediated by Main-Group Lewis Acid–Base Pairs. Chemical Reviews, 2018, 118, 10551-10616.	47.7	217
12	Lewis pair polymerization by classical and frustrated Lewis pairs: acid, base and monomer scope and polymerization mechanism. Dalton Transactions, 2012, 41, 9119.	3.3	191
13	Future Directions for Sustainable Polymers. Trends in Chemistry, 2019, 1, 148-151.	8.5	146
14	Ligand Exchange and Alkyl Abstraction Involving (Perfluoroaryl)boranes and -alanes with Aluminum and Gallium Alkyls. Organometallics, 2000, 19, 4684-4686.	2.3	143
15	lonic Liquidâ^'Water Mixtures: Enhanced <i>K</i> _w for Efficient Cellulosic Biomass Conversion. Energy & Samp; Fuels, 2010, 24, 2410-2417.	5.1	143
16	Selective Reduction of CO ₂ to CH ₄ by Tandem Hydrosilylation with Mixed Al/B Catalysts. Journal of the American Chemical Society, 2016, 138, 5321-5333.	13.7	140
17	The Quest for Converting Biorenewable Bifunctional α-Methylene-γ-butyrolactone into Degradable and Recyclable Polyester: Controlling Vinyl-Addition/Ring-Opening/Cross-Linking Pathways. Journal of the American Chemical Society, 2016, 138, 14326-14337.	13.7	132
18	From <i>meso</i> -Lactide to Isotactic Polylactide: Epimerization by B/N Lewis Pairs and Kinetic Resolution by Organic Catalysts. Journal of the American Chemical Society, 2015, 137, 12506-12509.	13.7	129

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19	Conjugateâ€Addition Organopolymerization: Rapid Production of Acrylic Bioplastics by Nâ€Heterocyclic Carbenes. Angewandte Chemie - International Edition, 2012, 51, 2465-2469.	13.8	125
20	Stereosequenced crystalline polyhydroxyalkanoates from diastereomeric monomer mixtures. Science, 2019, 366, 754-758.	12.6	125
21	Probing Site Cooperativity of Frustrated Phosphine/Borane Lewis Pairs by a Polymerization Study. Journal of the American Chemical Society, 2014, 136, 1774-1777.	13.7	123
22	Tantalum(V)-Based Metallocene, Half-Metallocene, and Non-Metallocene Complexes as Ethyleneâ ³ 1-Octene Copolymerization and Methyl Methacrylate Polymerization Catalysts. Organometallics, 2002, 21, 832-839.	2.3	120
23	Chemical synthesis of perfectly isotactic and high melting bacterial poly(3-hydroxybutyrate) from bio-sourced racemic cyclic diolide. Nature Communications, 2018, 9, 2345.	12.8	115
24	Living Ring-Opening Polymerization of Lactones by <i>N</i> Heterocyclic Olefin/Al(C ₆ F ₅) ₃ Lewis Pairs: Structures of Intermediates, Kinetics, and Mechanism. Macromolecules, 2017, 50, 123-136.	4.8	109
25	Elusive Silane–Alane Complex [SiHâ‹â‹â‹Al]: Isolation, Characterization, and Multifaceted Frustrated Lewis Pair Type Catalysis. Angewandte Chemie - International Edition, 2015, 54, 6842-6846.	13.8	106
26	ansa-Zirconocene Ester Enolates:  Synthesis, Structure, Reaction with Organo-Lewis Acids, and Application to Polymerization of Methacrylates. Journal of the American Chemical Society, 2004, 126, 4897-4906.	13.7	103
27	Reversal of Polymerization Stereoregulation in Anionic Polymerization of MMA by Chiral Metallocene and Non-metallocene Initiators:Â A New Reaction Pathway for Metallocene-Initiated MMA Polymerization. Journal of the American Chemical Society, 2001, 123, 7943-7944.	13.7	102
28	Single-Site Anionic Polymerization. Monomeric Ester Enolaluminate Propagator Synthesis, Molecular Structure, and Polymerization Mechanism. Journal of the American Chemical Society, 2005, 127, 961-974.	13.7	102
29	High-performance pan-tactic polythioesters with intrinsic crystallinity and chemical recyclability. Science Advances, 2020, 6, eabc0495.	10.3	101
30	Living Polymerization of Conjugated Polar Alkenes Catalyzed by <i>N</i> -Heterocyclic Olefin-Based Frustrated Lewis Pairs. ACS Catalysis, 2018, 8, 3571-3578.	11.2	99
31	Living Coordination Polymerization of a Sixâ€Five Bicyclic Lactone to Produce Completely Recyclable Polyester. Angewandte Chemie - International Edition, 2018, 57, 12558-12562.	13.8	96
32	Integrated Catalytic Process for Biomass Conversion and Upgrading to C ₁₂ Furoin and Alkane Fuel. ACS Catalysis, 2014, 4, 1302-1310.	11.2	94
33	Living Polymerization of Naturally Renewable Butyrolactone-Based Vinylidene Monomers by Ambiphilic Silicon Propagators. Macromolecules, 2010, 43, 4902-4908.	4.8	92
34	Organocatalysis in biorefining for biomass conversion and upgrading. Green Chemistry, 2014, 16, 964-981.	9.0	92
35	Neutral, Three-Coordinate, Chelating Diamide Aluminum Complexes:  Catalysts/Initiators for Synthesis of Telechelic Oligomers and High Polymers. Organometallics, 2002, 21, 1438-1442.	2.3	91
36	Organocatalytic Conjugate-Addition Polymerization of Linear and Cyclic Acrylic Monomers by N-Heterocyclic Carbenes: Mechanisms of Chain Initiation, Propagation, and Termination. Journal of the American Chemical Society, 2013, 135, 17925-17942.	13.7	91

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37	Lewis Pair Polymerization: Perspective on a Ten-Year Journey. Macromolecules, 2020, 53, 6102-6122.	4.8	91
38	"Double Activation―of Constrained Geometry and ansa-Metallocene Group 4 Metal Dialkyls:  Synthesis, Structure, and Olefin Polymerization Study of Mono- and Dicationic Aluminate Complexes. Journal of the American Chemical Society, 2001, 123, 745-746.	13.7	90
39	Diesel and Alkane Fuels From Biomass by Organocatalysis and Metal–Acid Tandem Catalysis. ChemSusChem, 2013, 6, 2236-2239.	6.8	89
40	Chain Propagation and Termination Mechanisms for Polymerization of Conjugated Polar Alkenes by [Al]-Based Frustrated Lewis Pairs. Macromolecules, 2014, 47, 7765-7774.	4.8	87
41	Hybrid monomer design for unifying conflicting polymerizability, recyclability, and performance properties. CheM, 2021, 7, 670-685.	11.7	83
42	Design principles for intrinsically circular polymers with tunable properties. CheM, 2021, 7, 2896-2912.	11.7	79
43	Chiral Amido Aluminum and Zinc Alkyls:Â A Synthetic, Structural, and Polymerization Study. Organometallics, 2003, 22, 769-774.	2.3	75
44	Ligand-Free Magnesium Catalyst System: Immortal Polymerization of <scp>l</scp> -Lactide with High Catalyst Efficiency and Structure of Active Intermediates. Macromolecules, 2012, 45, 6957-6965.	4.8	75
45	Catalystâ€Sidearmâ€Induced Stereoselectivity Switching in Polymerization of a Racemic Lactone for Stereocomplexed Crystalline Polymer with a Circular Life Cycle. Angewandte Chemie - International Edition, 2019, 58, 1178-1182.	13.8	7 5
46	Living and Syndioselective Polymerization of Methacrylates by Constrained Geometry Titanium Alkyl and Enolate Complexes. Macromolecules, 2004, 37, 3092-3100.	4.8	74
47	Isotactic-b-Syndiotactic Stereoblock Poly(methyl methacrylate) by Chiral Metallocene/Lewis Acid Hybrid Catalysts. Journal of the American Chemical Society, 2002, 124, 5612-5613.	13.7	70
48	Dinuclear Silylium-enolate Bifunctional Active Species: Remarkable Activity and Stereoselectivity toward Polymerization of Methacrylate and Renewable Methylene Butyrolactone Monomers. Journal of the American Chemical Society, 2011, 133, 13674-13684.	13.7	70
49	Cinchona Alkaloids as Stereoselective Organocatalysts for the Partial Kinetic Resolution Polymerization of <i>rac</i> -Lactide. Macromolecules, 2011, 44, 4116-4124.	4.8	70
50	Mechanistic Studies of Stereospecific Polymerization of Methacrylates Using a Cationic, Chiralansa-Zirconocene Ester Enolate. Macromolecules, 2005, 38, 2587-2594.	4.8	69
51	Controlled Polymerization of Methacrylates to High Molecular Weight Polymers Using Oxidatively Activated Group Transfer Polymerization Initiators. Macromolecules, 2008, 41, 36-42.	4.8	68
52	Organocatalytic upgrading of the key biorefining building block by a catalytic ionic liquid and N-heterocyclic carbenes. Green Chemistry, 2012, 14, 2738.	9.0	66
53	Polymerization by Classical and Frustrated Lewis Pairs. Topics in Current Chemistry, 2012, 334, 239-260.	4.0	66
54	"Nonstrainedâ€ $\hat{\bf e}$ î³-Butyrolactone-Based Copolyesters: Copolymerization Characteristics and Composition-Dependent (Thermal, Eutectic, Cocrystallization, and Degradation) Properties. Macromolecules, 2017, 50, 8469-8479.	4.8	65

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55	Synchronous Control of Chain Length/Sequence/Topology for Precision Synthesis of Cyclic Block Copolymers from Monomer Mixtures. Journal of the American Chemical Society, 2021, 143, 3318-3322.	13.7	64
56	Synthesis of Pyridine- and 2-Oxazoline-Functionalized Vinyl Polymers by Alane-Based Frustrated Lewis Pairs. Synlett, 2014, 25, 1534-1538.	1.8	63
57	Coordination Ring-Opening Copolymerization of Naturally Renewable α-Methylene-γ-butyrolactone into Unsaturated Polyesters. Macromolecules, 2014, 47, 3614-3624.	4.8	63
58	Catalytic Ring-Opening Polymerization of Propylene Oxide by Organoborane and Aluminum Lewis Acids. Macromolecules, 2003, 36, 5470-5481.	4.8	60
59	Catalyst-Site-Controlled Coordination Polymerization of Polar Vinyl Monomers to Highly Syndiotactic Polymers. Journal of the American Chemical Society, 2010, 132, 2695-2709.	13.7	60
60	Catalytic Lewis Pair Polymerization of Renewable Methyl Crotonate to High-Molecular-Weight Polymers. ACS Catalysis, 2018, 8, 9877-9887.	11.2	60
61	Compounded Sequence Control in Polymerization of One-Pot Mixtures of Highly Reactive Acrylates by Differentiating Lewis Pairs. Journal of the American Chemical Society, 2020, 142, 5969-5973.	13.7	59
62	Structureâ^'Reactivity Relationships in Bimolecular-Activated Monomer Polymerization of (Meth)acrylates Using Oxidatively Activated Group 14 Ketene Acetals. Macromolecules, 2008, 41, 6353-6360.	4.8	58
63	Chromium(0) Nanoparticles as Effective Catalyst for the Conversion of Glucose into 5â€Hydroxymethylfurfural. ChemSusChem, 2013, 6, 61-64.	6.8	58
64	Mechanism and Scope of Stereospecific, Coordinative-Anionic Polymerization of Acrylamides by Chiral Zirconocenium Ester and Amide Enolates. Macromolecules, 2005, 38, 6822-6832.	4.8	56
65	Stereoselectivity in Metallocene-Catalyzed Coordination Polymerization of Renewable Methylene Butyrolactones: From Stereo-random to Stereo-perfect Polymers. Journal of the American Chemical Society, 2012, 134, 7278-7281.	13.7	56
66	Biodegradable Polyhydroxyalkanoates by Stereoselective Copolymerization of Racemic Diolides: Stereocontrol and Polyolefinâ€Like Properties. Angewandte Chemie - International Edition, 2020, 59, 7881-7890.	13.8	56
67	Closing the "One Monomer–Two Polymers–One Monomer―Loop via Orthogonal (De)polymerization of a Lactone/Olefin Hybrid. Journal of the American Chemical Society, 2022, 144, 2264-2275.	13.7	56
68	Catalytic coupling of biomass-derived aldehydes into intermediates for biofuels and materials. Catalysis Science and Technology, 2018, 8, 1777-1798.	4.1	55
69	Diverse Catalytic Systems and Mechanistic Pathways for Hydrosilylative Reduction of CO ₂ . ChemSusChem, 2019, 12, 4543-4569.	6.8	55
70	Recyclable Supported Carbene Catalysts for High-Yielding Self-Condensation of Furaldehydes into C ₁₀ and C ₁₂ Furoins. ACS Catalysis, 2015, 5, 6907-6917.	11.2	54
71	Asymmetric Coordination Polymerization of Acrylamides by Enantiomeric Metallocenium Ester Enolate Catalysts. Journal of the American Chemical Society, 2007, 129, 6724-6725.	13.7	53
72	Coordination polymerization of renewable butyrolactone-based vinyl monomers by lanthanide and early metal catalysts. Dalton Transactions, 2010, 39, 6710.	3.3	53

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73	Redesigned Hybrid Nylons with Optical Clarity and Chemical Recyclability. Journal of the American Chemical Society, 2022, 144, 5366-5376.	13.7	53
74	Monoalkyl, chiral-at-metal â€~constrained geometry' complexes as efficient α-olefin and methyl methacrylate polymerisation catalysts. Chemical Communications, 2002, , 708-709.	4.1	52
75	Towards Truly Sustainable Polymers: A Metalâ€Free Recyclable Polyester from Biorenewable Nonâ€Strained γâ€Butyrolactone. Angewandte Chemie, 2016, 128, 4260-4265.	2.0	52
76	Stereoregular Methacrylate-POSS Hybrid Polymers: Syntheses and Nanostructured Assemblies. Chemistry of Materials, 2009, 21, 5743-5753.	6.7	51
77	Proton-Transfer Polymerization by N-Heterocyclic Carbenes: Monomer and Catalyst Scopes and Mechanism for Converting Dimethacrylates into Unsaturated Polyesters. Journal of the American Chemical Society, 2016, 138, 2021-2035.	13.7	51
78	Side Arm Twist on Zn-Catalyzed Hydrosilylative Reduction of CO ₂ to Formate and Methanol Equivalents with High Selectivity and Activity. ACS Catalysis, 2018, 8, 4710-4718.	11.2	51
79	Amphicatalytic Polymerization:Â Synthesis of Stereomultiblock Poly(methyl methacrylate) with Diastereospecific Ion Pairs. Journal of the American Chemical Society, 2003, 125, 7150-7151.	13.7	50
80	Metallocene-Mediated Asymmetric Coordination Polymerization of Polar Vinyl Monomers to Optically Active, Stereoregular Polymers. Macromolecules, 2008, 41, 3405-3416.	4.8	50
81	Stereochemically Controlled PMMA-Exfoliated Silicate Nanocomposites Using Intergallery-Anchored Metallocenium Cations. Journal of the American Chemical Society, 2003, 125, 15726-15727.	13.7	49
82	Synthesis of helical poly(phenylacetylene)s bearing cinchona alkaloid pendants and their application to asymmetric organocatalysis. Journal of Polymer Science Part A, 2011, 49, 5192-5198.	2.3	49
83	Protonâ€Transfer Polymerization (HTP): Converting Methacrylates to Polyesters by an Nâ€Heterocyclic Carbene. Angewandte Chemie - International Edition, 2014, 53, 11900-11906.	13.8	49
84	Chemoselective, Stereospecific, and Living Polymerization of Polar Divinyl Monomers by Chiral Zirconocenium Catalysts. Journal of the American Chemical Society, 2015, 137, 9469-9480.	13.7	47
85	Stereospecific, Coordination Polymerization of Acrylamides by Chiralansa-Metallocenium Alkyl and Ester Enolate Cations. Macromolecules, 2004, 37, 4741-4743.	4.8	45
86	Neutral Metallocene Ester Enolate and Non-Metallocene Alkoxy Complexes of Zirconium for Catalytic Ring-Opening Polymerization of Cyclic Esters. Organometallics, 2008, 27, 5632-5640.	2.3	45
87	Stereospecific polymerization of methacrylates by metallocene and related catalysts. Journal of Polymer Science Part A, 2004, 42, 3395-3403.	2.3	44
88	Anionic polymerization of MMA and renewable methylene butyrolactones by resorbable potassium salts. Journal of Polymer Science Part A, 2011, 49, 2008-2017.	2.3	43
89	Lewis Pair Polymerization of Acrylic Monomers by <i>N</i> â€Heterocyclic Carbenes and B(C ₆ F ₅) ₃ . Israel Journal of Chemistry, 2015, 55, 216-225.	2.3	42
90	Closed-Loop Polymer Upcycling by Installing Property-Enhancing Comonomer Sequences and Recyclability. Macromolecules, 2019, 52, 4570-4578.	4.8	42

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91	Selective or living organopolymerization of a six-five bicyclic lactone to produce fully recyclable polyesters. Polymer Chemistry, 2019, 10, 3097-3106.	3.9	42
92	Polymerization of Naturally Renewable Methylene Butyrolactones by Half-Sandwich Indenyl Rare Earth Metal Dialkyls with Exceptional Activity. Macromolecules, 2010, 43, 9328-9336.	4.8	41
93	Unsolvated Al(C ₆ F ₅) ₃ : structural features and electronic interaction with ferrocene. Dalton Transactions, 2016, 45, 6105-6110.	3.3	41
94	Unusual Weakly Coordinating Anion Reactivity in Metallocene Chemistry. Formation of Tantalocene Cationâ [°] Dinuclear Anion Pairs. Organometallics, 2000, 19, 5541-5543.	2.3	39
95	Effect of Polymer Tacticity on the Performance of Poly($\langle i \rangle N \langle i \rangle N \langle i \rangle$ -dialkylacrylamide)s as Kinetic Hydrate Inhibitors. Energy & Energy	5.1	39
96	Reactivity of Amine/E(C6F5)3 (E = B, Al) Lewis Pairs toward Linear and Cyclic Acrylic Monomers: Hydrogenation vs. Polymerization. Molecules, 2015, 20, 9575-9590.	3.8	39
97	Organocatalytic Upgrading of Furfural and 5-Hydroxymethyl Furfural to C10 and C12 Furoins with Quantitative Yield and Atom-Efficiency. International Journal of Molecular Sciences, 2015, 16, 7143-7158.	4.1	38
98	Polyesters and Poly(ester-urethane)s from Biobased Difuranic Polyols. ACS Sustainable Chemistry and Engineering, 2016, 4, 7118-7129.	6.7	38
99	Metallocene-Catalyzed Polymerization of Methacrylates to Highly Syndiotactic Polymers at High Temperatures. Journal of the American Chemical Society, 2008, 130, 2463-2465.	13.7	37
100	Synthesis of \hat{l}^2 -methyl- \hat{l}_{\pm} -methylene- \hat{l}^3 -butyrolactone from biorenewable itaconic acid. Organic Chemistry Frontiers, 2014, 1, 230.	4.5	37
101	Polymeric ionic liquid (PIL)-supported recyclable catalysts for biomass conversion into HMF. Biomass and Bioenergy, 2013, 48, 181-190.	5.7	36
102	Oneâ€Step Synthesis of Ligninâ€Based Triblock Copolymers as Highâ€Temperature and UVâ€Blocking Thermoplastic Elastomers. Angewandte Chemie - International Edition, 2022, 61, e202114946.	13.8	36
103	Neutral Olefin Polymerization Activators as Highly Active Catalysts for ROP of Heterocyclic Monomers and for Polymerization of Styrene. Macromolecules, 2002, 35, 13-15.	4.8	35
104	First Isolation and Structural Characterization of Triarylaluminumâ [*] Water and â [*] Methanol Complexes. Organometallics, 2003, 22, 207-210.	2.3	35
105	Highâ€Speed Living Polymerization of Polar Vinyl Monomers by Selfâ€Healing Silylium Catalysts. Chemistry - A European Journal, 2010, 16, 10462-10473.	3.3	35
106	Chlorobis(pentafluorophenyl)alane: synthesis, crystal structure, and polymerization catalysis. Inorganic Chemistry Communication, 2002, 5, 698-701.	3.9	33
107	Synthesis of highly syndiotactic polymers by discrete catalysts or initiators. Polymer Chemistry, 2011, 2, 2462.	3.9	33
108	Recyclable Earthâ€Abundant Metal Nanoparticle Catalysts for Selective Transfer Hydrogenation of Levulinic Acid to Produce <i>γ</i> â€Valerolactone. ChemSusChem, 2016, 9, 181-185.	6.8	33

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109	Stereoblock Copolymerization of Propylene and Methyl Methacrylate with Single-Site Metallocene Catalysts. Macromolecular Chemistry and Physics, 2002, 203, 2329-2333.	2.2	32
110	Chiral ansa-Titanocene Imido Complexes:  Novel Synthesis and Effective Initiator for Syndiospecific Polymerization of MMA. Organometallics, 2002, 21, 13-15.	2.3	31
111	Chain Termination and Transfer Reactions in the Acrylate Polymerization by a Monometallic Chiral Zirconocenium Catalyst System. Macromolecules, 2006, 39, 1318-1327.	4.8	31
112	Diastereospecific Ion-Pairing Polymerization of Functionalized Alkenes by Metallocene/Lewis Acid Hybrid Catalysts. Macromolecules, 2006, 39, 7204-7215.	4.8	31
113	Remarkable Lewis acid effects on polymerization of functionalized alkenes by metallocene and lithium ester enolates. Journal of Organometallic Chemistry, 2007, 692, 4535-4544.	1.8	31
114	<i>ansa</i> â€Rareâ€Earthâ€Metal Catalysts for Rapid and Stereoselective Polymerization of Renewable Methylene Methylbutyrolactones. Chemistry - A European Journal, 2012, 18, 3345-3354.	3.3	31
115	Cationic kinetic hydrate inhibitors and the effect on performance of incorporating cationic monomers into N-vinyl lactam copolymers. Chemical Engineering Science, 2013, 102, 424-431.	3.8	31
116	Organocatalytic and Chemoselective Polymerization of Multivinyl-Functionalized \hat{I}^3 -Butyrolactones. ACS Macro Letters, 2016, 5, 772-776.	4.8	31
117	Coordinationâ [^] Addition Polymerization and Kinetic Resolution of Methacrylamides by Chiral Metallocene Catalysts. Macromolecules, 2009, 42, 1462-1471.	4.8	30
118	Robust Cross-Linked Stereocomplexes and C ₆₀ Inclusion Complexes of Vinyl-Functionalized Stereoregular Polymers Derived from Chemo/Stereoselective Coordination Polymerization. Journal of the American Chemical Society, 2016, 138, 9533-9547.	13.7	30
119	Living Group Transfer Polymerization of Renewable \hat{l}_{\pm} -Methylene- \hat{l}_{3} -butyrolactones Using Al(C6F5)3 Catalyst. Macromolecules, 2018, 51, 1296-1307.	4.8	30
120	Effects of Chain Ends on Thermal and Mechanical Properties and Recyclability of Poly(<i>γ</i> â€butyrolactone). Journal of Polymer Science Part A, 2018, 56, 2271-2279.	2.3	29
121	Dual-initiating and living frustrated Lewis pairs: expeditious synthesis of biobased thermoplastic elastomers. Nature Communications, 2021, 12, 4874.	12.8	28
122	Tripodal Amido Boron and Aluminum Complexes. Inorganic Chemistry, 2007, 46, 1481-1487.	4.0	27
123	Polymerization of methyl methacrylate by metallocene imido complexes and tris(pentafluorophenyl)alane. Journal of Polymer Science Part A, 2003, 41, 3132-3142.	2.3	26
124	Group 13 and Lanthanide Complexes Supported by Tridentate Tripodal Triamine Ligands:  Structural Diversity and Polymerization Catalysis. Organometallics, 2007, 26, 5395-5405.	2.3	26
125	High-speed organocatalytic polymerization of a renewable methylene butyrolactone by a phosphazene superbase. Polymer Chemistry, 2014, 5, 3261.	3.9	26
126	Divalentansa-Zirconocenes:Â Stereoselective Synthesis and High Activity for Propylene Polymerization. Journal of the American Chemical Society, 2004, 126, 42-43.	13.7	25

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127	Cationic Zinc Enolates as Highly Active Catalysts for Acrylate Polymerization. Journal of the American Chemical Society, 2006, 128, 14822-14823.	13.7	25
128	Synthesis and MMA polymerization of chiral ansa-zirconocene ester enolate complexes with C2- and Cs-ligation. Journal of Organometallic Chemistry, 2006, 691, 3490-3497.	1.8	25
129	High chemical recyclability of vinyl lactone acrylic bioplastics. Polymer Chemistry, 2020, 11, 4942-4950.	3.9	25
130	Toughening Biodegradable Isotactic Poly(3-hydroxybutyrate) via Stereoselective Copolymerization of a Diolide and Lactones. Macromolecules, 2021, 54, 9401-9409.	4.8	25
131	Catalystâ€Sidearmâ€Induced Stereoselectivity Switching in Polymerization of a Racemic Lactone for Stereocomplexed Crystalline Polymer with a Circular Life Cycle. Angewandte Chemie, 2019, 131, 1190-1194.	2.0	24
132	Activation of Tantalocene(V) Alkyl and Alkylidene Complexes with Strong Organo Lewis Acids and Application to Polymerization Catalysis. Organometallics, 2006, 25, 3721-3729.	2.3	23
133	Rare-Earth Half-Sandwich Dialkyl and Homoleptic Trialkyl Complexes for Rapid and Stereoselective Polymerization of a Conjugated Polar Olefin. Organometallics, 2013, 32, 1459-1465.	2.3	23
134	Organocatalytic Cross-Coupling of Biofuranics to Multifunctional Difuranic C ₁₁ Building Blocks. ACS Sustainable Chemistry and Engineering, 2016, 4, 4927-4936.	6.7	23
135	Syndioselective MMA Polymerization by Group 4 Constrained Geometry Catalysts: A Combined Experimental and Theoretical Study. Macromolecules, 2008, 41, 6910-6919.	4.8	22
136	Stereospecific Polymerization of Chiral Oxazolidinone-Functionalized Alkenes. Macromolecules, 2010, 43, 7504-7514.	4.8	22
137	Role of N-heterocyclic carbenes in glucose conversion into HMF by Cr catalysts in ionic liquids. Applied Catalysis A: General, 2013, 460-461, 1-7.	4.3	22
138	Polymerizability of <i>Exo</i> à€methyleneâ€lactide toward vinyl addition and ring opening. Journal of Polymer Science Part A, 2015, 53, 1523-1532.	2.3	22
139	Chemoselective Lewis pair polymerization of renewable multivinyl-functionalized \hat{I}^3 -butyrolactones. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170003.	3.4	22
140	Stereoregular P(MMA)-clay nanocomposites by metallocene catalysts:In situ synthesis and stereocomplex formation. Journal of Polymer Science Part A, 2007, 45, 2581-2592.	2.3	20
141	Transformation of polymerization of polar vinyl monomers by discrete and hybrid metal catalysts. Dalton Transactions, 2009, , 8784.	3.3	20
142	Difuranic Diols for Renewable Polymers with Pendent Furan Rings. ACS Sustainable Chemistry and Engineering, 2019, 7, 7035-7046.	6.7	20
143	Lewis Pair Polymerization of Renewable Indenone to Erythro-Ditactic High- <i>T</i> _g Polymers with an Upcycling Avenue. Macromolecules, 2020, 53, 640-648.	4.8	20
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