Wei-Min Ren

List of Publications by Year
in descending order

56	3,283	186265 28	155660 55
papers	citations	h-index	g-index

57	57	57	1657
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	COS-triggered oxygen/sulfur exchange of isatins: chemoselective synthesis of functionalized isoindigos and spirothiopyrans via self-condensation and the thio-Dielsâ€“Alder reaction. Organic and Biomolecular Chemistry, 2022, 20, 678-685.	2.8	5
2	Controlled Disassembly of Elemental Sulfur: An Approach to the Precise Synthesis of Polydisulfides. Angewandte Chemie - International Edition, 2022, 61, .	13.8	23
3	The copolymerization of SO₂with propylene oxide mediated by organic ammonium salts: a comprehensive study of the main-chain structure, living polymerization character and regioselectivity. Polymer Chemistry, 2022, 13, 3136-3143.	3.9	3
4	A sustainable approach for the synthesis of recyclable cyclic CO₂-based polycarbonates. Chemical Science, 2022, 13, 6283-6290.	7.4	26
5	Electrocarboxylation of N-Acylimines with Carbon Dioxide: Access to Substituted Î±-Amino Acids. Organic Letters, 2022, 24, 3565-3569.	4.6	25
6	Randomly Distributed Sulfur Atoms in the Main Chains of CO₂â€Based Polycarbonates: Enhanced Optical Properties. Angewandte Chemie - International Edition, 2021, 60, 4315-4321.	13.8	31
7	Flexible Gradient Poly(ether-ester) from the Copolymerization of Epoxides and Îµ-Caprolactone Mediated by a Hetero-bimetallic Complex. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1013-1019.	3.8	6
8	Photoinduced Reversible Semicrystallineâ€toâ€Amorphous State Transitions of Stereoregular Azopolyesters. Angewandte Chemie - International Edition, 2021, 60, 17898-17903.	13.8	11
9	Photoinduced Reversible Semicrystallineâ€toâ€Amorphous State Transitions of Stereoregular Azopolyesters. Angewandte Chemie, 2021, 133, 18042-18047.	2.0	2
10	The synthesis of degradable sulfur-containing polymers: precise control of structure and stereochemistry. Polymer Chemistry, 2021, 12, 6650-6666.	3.9	32
11	Synthesis of polyethers from epoxides via a binary organocatalyst system. Polymer Chemistry, 2021, 12, 6436-6443.	3.9	8
12	Facile Access to Functionalized Poly(thioether)s via Anionic Ring-Opening Decarboxylative Polymerization of COS-Sourced Î±-Alkylidene Cyclic Thiocarbonates. Macromolecules, 2021, 54, 10395-10404.	4.8	5
13	Alternating Copolymerization of SO₂ with Epoxides Mediated by Simple Organic Ammonium Salts. Macromolecules, 2020, 53, 9901-9905.	4.8	14
14	Carboxylative Cyclization of 2-Butenoates with Carbon Dioxide: Access to Glutaconic Anhydrides. Journal of Organic Chemistry, 2020, 85, 11579-11588.	3.2	3
15	Copolymerization of aziridines and cyclic anhydrides by metal-free catalysis strategy. European Polymer Journal, 2020, 136, 109900.	5.4	13
16	Evaluation of the Lewis acidity of metal complexes using ESI mass spectrometry. European Journal of Mass Spectrometry, 2020, 26, 332-340.	1.0	4
17	Facile Synthesis of Wellâ€Defined Branched Sulfurâ€Containing Copolymers: Oneâ€Pot Copolymerization of Carbonyl Sulfide and Epoxide. Angewandte Chemie - International Edition, 2020, 59, 13633-13637.	13.8	23
18	Intramolecularly Cooperative Catalysis for Copolymerization of Cyclic Thioanhydrides and Epoxides: A Dual Activation Strategy to Well-Defined Polythioesters. ACS Catalysis, 2020, 10, 6635-6644.	11.2	41

#	Article	IF	Citations
19	Enantioselective terpolymerization of racemic and meso -epoxides with anhydrides for preparation of chiral polyesters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15429-15436.	7.1	31
20	Mechanism-inspired Design of Heterodinuclear Catalysts for Copolymerization of Epoxide and Lactone. Chinese Journal of Polymer Science (English Edition), 2020, 38, 950-957.	3.8	11
21	Alternating Copolymerization of trans-Internal Epoxides and Cyclic Anhydrides Mediated by Dinuclear Chromium Catalyst Systems. Macromolecules, 2019, 52, 5652-5657.	4.8	12
22	Reversible Transformation between Amorphous and Crystalline States of Unsaturated Polyesters by Cisâ€“Trans Isomerization. Angewandte Chemie - International Edition, 2019, 58, 17636-17640.	13.8	26
23	Reversible Transformation between Amorphous and Crystalline States of Unsaturated Polyesters by Cis â€“ Trans Isomerization. Angewandte Chemie, 2019, 131, 17800-17804.	2.0	6
24	Synthesis of Polycarbonate Block Terpolymers Using Robust Cobalt Catalyst Systems. Chinese Journal of Polymer Science (English Edition), 2019, 37, 1200-1204.	3.8	14
25	Enantioselective Resolution Copolymerization of Racemic Epoxides and Anhydrides: Efficient Approach for Stereoregular Polyesters and Chiral Epoxides. Journal of the American Chemical Society, 2019, 141, 8937-8942.	13.7	70
26	Semiaromatic Poly(thioester) from the Copolymerization of Phthalic Thioanhydride and Epoxide: Synthesis, Structure, and Properties. Macromolecules, 2019, 52, 2439-2445.	4.8	38
27	Highly regio- and stereoselective synthesis of cyclic carbonates from biomass-derived polyolsviaorganocatalytic cascade reaction. Green Chemistry, 2019, 21, 6335-6341.	9.0	42
28	Precise Synthesis of Poly(thioester)s with Diverse Structures by Copolymerization of Cyclic Thioanhydrides and Episulfides Mediated by Organic Ammonium Salts. Angewandte Chemie - International Edition, 2019, 58, 618-623.	13.8	69
29	Development of Highly Enantioselective Catalysts for Asymmetric Copolymerization of meso-Epoxides and Cyclic Anhydrides: Subtle Modification Resulting in Superior Enantioselectivity. ACS Catalysis, 2019, 9, 1915-1922.	11.2	67
30	Highly efficient conversion of CO₂ to cyclic carbonates with a binary catalyst system in a microreactor: intensification of â€œelectrophileâ€“nucleophileâ€•synergistic effect. RSC Advances, 2018, 8, 39182-39186.	3.6	15
31	Tandem Lewis Pair Polymerization and Organocatalytic Ring-Opening Polymerization for Synthesizing Block and Brush Copolymers. Molecules, 2018, 23, 468.	3.8	7
32	Synthesis of Chiral Sulfurâ€Containing Polymers: Asymmetric Copolymerization of mesoâ€Epoxides and Carbonyl Sulfide. Angewandte Chemie, 2018, 130, 12852-12856.	2.0	22
33	Synthesis of Chiral Sulfurâ€Containing Polymers: Asymmetric Copolymerization of mesoâ€Epoxides and Carbonyl Sulfide. Angewandte Chemie - International Edition, 2018, 57, 12670-12674.	13.8	55
34	Functionalized Polyesters with Tunable Degradability Prepared by Controlled Ring-Opening (Co)polymerization of Lactones. Macromolecules, 2017, 50, 3131-3142.	4.8	38
35	Crystalline and Elastomeric Poly(monothiocarbonate)s Prepared from Copolymerization of COS and Achiral Epoxide. Macromolecules, 2017, 50, 63-68.	4.8	43
36	Stereoregular CO₂ Copolymers from Epoxides with an Electron-Withdrawing Group: Crystallization and Unexpected Stereocomplexation. Macromolecules, 2017, 50, 7062-7069.	4.8	34

#	Article	IF	Citations
37	A Single-Site Iron(III)-Salan Catalyst for Converting COS to Sulfur-Containing Polymers. Polymers, 2017, 9, 515.	4.5	17
38	Crystalline Polythiocarbonate from Stereoregular Copolymerization of Carbonyl Sulfide and Epichlorohydrin. Macromolecules, 2016, 49, 2971-2976.	4.8	39
39	Asymmetric Alternating Copolymerization of Meso-epoxides and Cyclic Anhydrides: Efficient Access to Enantiopure Polyesters. Journal of the American Chemical Society, 2016, 138, 11493-11496.	13.7	128
40	Crystalline Heteroâ€Stereocomplexed Polycarbonates Produced from Amorphous Opposite Enantiomers Having Different Chemical Structures. Angewandte Chemie - International Edition, 2015, 54, 7042-7046.	13.8	59
41	Single-Site Bifunctional Catalysts for COX (X = O or S)/Epoxides Copolymerization: Combining High Activity, Selectivity, and Durability. Macromolecules, 2015, 48, 8445-8450.	4.8	50
42	Crystalline Stereocomplexed Polycarbonates: Hydrogenâ€Bondâ€Driven Interlocked Orderly Assembly of the Opposite Enantiomers. Angewandte Chemie - International Edition, 2015, 54, 2241-2244.	13.8	74
43	Mechanistic Understanding of Dinuclear Cobalt(III) Complex Mediated Highly Enantioselective Copolymerization of meso-Epoxides with CO₂. Macromolecules, 2014, 47, 7775-7788.	4.8	108
44	Stereospecific CO₂ Copolymers from 3,5-Dioxaepoxides: Crystallization and Functionallization. Macromolecules, 2014, 47, 1269-1276.	4.8	80
45	Bifunctional Aluminum Catalyst for CO₂ Fixation: Regioselective Ring Opening of Three-Membered Heterocyclic Compounds. Journal of Organic Chemistry, 2014, 79, 9771-9777.	3.2	147
46	Binuclear chromiumâ€“salan complex catalyzed alternating copolymerization of epoxides and cyclic anhydrides. Polymer Chemistry, 2013, 4, 1439-1444.	3.9	111
47	Mechanistic Aspects of Metal Valence Change in SalenCo(III)OAc-Catalyzed Hydrolytic Kinetic Resolution of Racemic Epoxides. Journal of Organic Chemistry, 2013, 78, 4801-4810.	3.2	28
48	Asymmetric Copolymerization of CO₂ with mesoâ€Epoxides Mediated by Dinuclear Cobalt(III) Complexes: Unprecedented Enantioselectivity and Activity. Angewandte Chemie - International Edition, 2013, 52, 11594-11598.	13.8	207
49	Enhanced Asymmetric Induction for the Copolymerization of CO₂ and Cyclohexene Oxide with Unsymmetric Enantiopure SalenCo(III) Complexes: Synthesis of Crystalline CO₂-Based Polycarbonate. Journal of the American Chemical Society, 2012, 134, 5682-5688.	13.7	140
50	CO₂ Copolymers from Epoxides: Catalyst Activity, Product Selectivity, and Stereochemistry Control. Accounts of Chemical Research, 2012, 45, 1721-1735.	15.6	576
51	Role of the co-catalyst in the asymmetric coupling of racemic epoxides with CO2 using multichiral Co(iii) complexes: product selectivity and enantioselectivity. Chemical Science, 2012, 3, 2094.	7.4	93
52	Stereoregular poly(cyclohexene carbonate)s: Unique crystallization behavior. Chinese Journal of Polymer Science (English Edition), 2012, 30, 487-492.	3.8	73
53	Alternating copolymerization of CO2 and styrene oxide with Co(iii)-based catalyst systems: differences between styrene oxide and propylene oxide. Energy and Environmental Science, 2011, 4, 5084.	30.8	94
54	Stereoregular polycarbonate synthesis: Alternating copolymerization of CO₂ with aliphatic terminal epoxides catalyzed by multichiral cobalt(III) complexes. Journal of Polymer Science Part A, 2011, 49, 4894-4901.	2.3	73

#	Article	IF	Citations
55	Mechanistic Aspects of the Copolymerization of CO₂ with Epoxides Using a Thermally Stable Single-Site Cobalt(III) Catalyst. Journal of the American Chemical Society, 2009, 131, 11509-11518.	13.7	311
56	Controlled Disassembly of Elemental Sulfur: An Approach to the Precise Synthesis of Polydisulfides. Angewandte Chemie, 0, , .	2.0	0