Zhe Zhou

List of Publications by Year
in descending order

20 papers	533 citations	759233 12 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	367 citing authors

#	Article	IF	Citations
1	A New Technique for Characterizing Comonomer Distribution in Polyolefins: High-Temperature Thermal Gradient Interaction Chromatography (HT-TGIC). Macromolecules, 2011, 44, 3062-3072.	4.8	89
2	A new decoupling method for accurate quantification of polyethylene copolymer composition and triad sequence distribution with 13C NMR. Journal of Magnetic Resonance, 2007, 187, 225-233.	2.1	80
3	Pyridylamido Hafnium and Zirconium Complexes: Synthesis, Dynamic Behavior, and Ethylene/1-Octene and Propylene Polymerization Reactions. Organometallics, 2011, 30, 3318-3329.	2.3	73
4	NMR Study of Isolated 2,1-Inverse Insertion in Isotactic Polypropylene. Macromolecules, 2009, 42, 2291-2294.	4.8	53
5	13C NMR of polyolefins with a new high temperature 10mm cryoprobe. Journal of Magnetic Resonance, 2009, 200, 328-333.	2.1	43
6	Dual Polymerization Pathway for Polyolefin-Polar Block Copolymer Synthesis via MILRad: Mechanism and Scope. Journal of the American Chemical Society, 2020, 142, 21469-21483.	13.7	43
7	Error Analysis for NMR Polymer Microstructure Measurement without Calibration Standards. Analytical Chemistry, 2009, 81, 8585-8589.	6.5	23
8	Optimum Cr(acac)$_3$ Concentration for NMR Quantitative Analysis of Polyolefins. Macromolecular Symposia, 2013, 330, 115-122.	0.7	20
9	Long Chain Branching Detection and Quantification in LDPE with Special Solvents, Polarization Transfer Techniques, and Inverse Gated ^{13}C NMR Spectroscopy. Macromolecules, 2018, 51, 8443-8454.	4.8	19
10	Long-Chain Branch Measurement in Substantially Linear Ethylene Polymers by ^{13}C NMR with Halogenated Naphthalenes as Solvents. Macromolecules, 2017, 50, 7959-7966.	4.8	15
11	Unsaturation Characterization of Polyolefins by NMR and Thermal Gradient NMR (TGNMR) with a High Temperature Cryoprobe. Macromolecular Symposia, 2012, 312, 88-96.	0.7	12
12	Synthesis of Chain Shuttling Organometallic Compounds Capable of Producing Triblock Polyolefins. Macromolecules, 2020, 53, 10796-10802.	4.8	12
13	Long-Chain Branch Detection and Quantification in Ethylene–Hexene LLDPE with ^{13}C NMR. Macromolecules, 2021, 54, 757-762.	4.8	11
14	Polyolefin Analyses with a 10 mm Multinuclear NMR Cryoprobe. Analytical Chemistry, 2020, 92, 15596-15603.	6.5	7
15	Unexpected proton spin–lattice relaxation in the solutions of polyolefin and tetrachloroethane. Magnetic Resonance in Chemistry, 2010, 48, 537-542.	1.9	6
16	Analyses of Short Chain Branches in Polyolefins with Improved 1H NMR Spectroscopy. Analytical Chemistry, 2020, 92, 8350-8355.	6.5	6
17	Very Sensitive ^{13}C NMR Method for the Detection and Quantification of Long-Chain Branches in Ethylene–Hexene Linear Low-Density Polyethylene. Macromolecules, 2021, 54, 5985-5990.	4.8	6
18	Fabrication of Graphene-Coated Silica Particles for Polymer Chromatography to Quantify Chemical Composition Distribution of Polyolefin Materials. Macromolecules, 2021, 54, 7140-7146.	4.8	6

#	Article	IF	Citations
19	Analytical Insights into the Microstructures and Reaction Mechanisms of Cationic Pd(II) α-Diimine-Catalyzed Polyolefins. Macromolecules, 2021, 54, 10814-10829.	4.8	3
20	Microstructure Characterization of Functionalized Ethylene/Propylene Polyolefins. Macromolecules, 2022, 55, 2542-2556.	4.8	3