

Zhe Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

533
citations

759233

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure Characterization of Functionalized Ethylene/Propylene Polyolefins. <i>Macromolecules</i> , 2022, 55, 2542-2556.	4.8	3
2	Long-Chain Branch Detection and Quantification in Ethylene- α -Hexene LLDPE with ^{13}C NMR. <i>Macromolecules</i> , 2021, 54, 757-762.	4.8	11
3	Very Sensitive ^{13}C NMR Method for the Detection and Quantification of Long-Chain Branches in Ethylene- α -Hexene Linear Low-Density Polyethylene. <i>Macromolecules</i> , 2021, 54, 5985-5990.	4.8	6
4	Fabrication of Graphene-Coated Silica Particles for Polymer Chromatography to Quantify Chemical Composition Distribution of Polyolefin Materials. <i>Macromolecules</i> , 2021, 54, 7140-7146.	4.8	6
5	Analytical Insights into the Microstructures and Reaction Mechanisms of Cationic Pd(II) \pm -Diimine-Catalyzed Polyolefins. <i>Macromolecules</i> , 2021, 54, 10814-10829.	4.8	3
6	Polyolefin Analyses with a 10 mm Multinuclear NMR Cryoprobe. <i>Analytical Chemistry</i> , 2020, 92, 15596-15603.	6.5	7
7	Synthesis of Chain Shuttling Organometallic Compounds Capable of Producing Triblock Polyolefins. <i>Macromolecules</i> , 2020, 53, 10796-10802.	4.8	12
8	Dual Polymerization Pathway for Polyolefin-Polar Block Copolymer Synthesis via MILRad: Mechanism and Scope. <i>Journal of the American Chemical Society</i> , 2020, 142, 21469-21483.	13.7	43
9	Analyses of Short Chain Branches in Polyolefins with Improved ^1H NMR Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 8350-8355.	6.5	6
10	Long Chain Branching Detection and Quantification in LDPE with Special Solvents, Polarization Transfer Techniques, and Inverse Gated ^{13}C NMR Spectroscopy. <i>Macromolecules</i> , 2018, 51, 8443-8454.	4.8	19
11	Long-Chain Branch Measurement in Substantially Linear Ethylene Polymers by ^{13}C NMR with Halogenated Naphthalenes as Solvents. <i>Macromolecules</i> , 2017, 50, 7959-7966.	4.8	15
12	Optimum $\text{Cr}(\text{acac})_3$ Concentration for ^{13}C NMR Quantitative Analysis of Polyolefins. <i>Macromolecular Symposia</i> , 2013, 330, 115-122.	0.7	20
13	Unsaturation Characterization of Polyolefins by NMR and Thermal Gradient NMR (TGNMR) with a High Temperature Cryoprobe. <i>Macromolecular Symposia</i> , 2012, 312, 88-96.	0.7	12
14	Pyridylamido Hafnium and Zirconium Complexes: Synthesis, Dynamic Behavior, and Ethylene/1-Octene and Propylene Polymerization Reactions. <i>Organometallics</i> , 2011, 30, 3318-3329.	2.3	73
15	A New Technique for Characterizing Comonomer Distribution in Polyolefins: High-Temperature Thermal Gradient Interaction Chromatography (HT-TGIC). <i>Macromolecules</i> , 2011, 44, 3062-3072.	4.8	89
16	Unexpected proton spin-lattice relaxation in the solutions of polyolefin and tetrachloroethane. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 537-542.	1.9	6
17	^{13}C NMR of polyolefins with a new high temperature 10mm cryoprobe. <i>Journal of Magnetic Resonance</i> , 2009, 200, 328-333.	2.1	43
18	NMR Study of Isolated 2,1-Inverse Insertion in Isotactic Polypropylene. <i>Macromolecules</i> , 2009, 42, 2291-2294.	4.8	53

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19	Error Analysis for NMR Polymer Microstructure Measurement without Calibration Standards. Analytical Chemistry, 2009, 81, 8585-8589.	6.5	23
20	A new decoupling method for accurate quantification of polyethylene copolymer composition and triad sequence distribution with ¹³ C NMR. Journal of Magnetic Resonance, 2007, 187, 225-233.	2.1	80