JoÃ£o B P Soares

List of Publications by Year in descending order

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290 papers	7,357 citations	57631 44 h-index	106150 65 g-index
336 all docs	336 docs citations	336 times ranked	2875 citing authors

#	Article	IF	Citations
1	Single particle modelling for olefin polymerization on supported catalysts: A review and proposals for future developments. Chemical Engineering Science, 2001, 56, 3931-3949.	1.9	226
2	Polymerization reaction engineering â€" Metallocene catalysts. Progress in Polymer Science, 1996, 21, 651-706.	11.8	168
3	Mathematical Modeling of Multicomponent Chain-Growth Polymerizations in Batch, Semibatch, and Continuous Reactors:Â A Review. Industrial & Engineering Chemistry Research, 1997, 36, 966-1015.	1.8	166
4	Mathematical modelling of the microstructure of polyolefins made by coordination polymerization: a review. Chemical Engineering Science, 2001, 56, 4131-4153.	1.9	148
5	Fractionation of Semicrystalline Polymers by Crystallization Analysis Fractionationand Temperature Rising Elution Fractionation. Advances in Polymer Science, 2005, , 1-54.	0.4	129
6	Bivariate chain length and long chain branching distribution for copolymerization of olefins and polyolefin chains containing terminal double-bonds. Macromolecular Theory and Simulations, 1996, 5, 547-572.	0.6	119
7	Particle Growth During the Polymerisation of Olefins on Supported Catalysts, 1 â€" Nascent Polymer Structures. Macromolecular Reaction Engineering, 2010, 4, 40-64.	0.9	117
8	Water Soluble Polymer Flocculants: Synthesis, Characterization, and Performance Assessment. Macromolecular Materials and Engineering, 2019, 304, 1800526.	1.7	111
9	When Polymer Reaction Engineers Play Dice: Applications of Monte Carlo Models in PRE. Macromolecular Reaction Engineering, 2015, 9, 141-185.	0.9	105
10	Waterâ€soluble polymers for oil sands tailing treatment: A Review. Canadian Journal of Chemical Engineering, 2015, 93, 888-904.	0.9	104
11	Polyethyleneâ€"clay hybrid nanocomposites: in situ polymerization using bifunctional organic modifiers. Polymer, 2003, 44, 5317-5321.	1.8	85
12	Application of solidifiers for oil spill containment: A review. Chemosphere, 2018, 194, 837-846.	4.2	83
13	Metallocene/Aluminoxane Catalysts for Olefin Polymerization. A Review. Polymer-Plastics Technology and Engineering, 1995, 3, 131-200.	0.7	80
14	Analysis and Control of the Molecular Weight and Chemical Composition Distributions of Polyolefins Made with Metallocene and Zieglerâ^'Natta Catalysts. Industrial & Engineering Chemistry Research, 1997, 36, 1144-1150.	1.8	80
15	Effect of operating conditions on the molecular weight distribution of polyethylene synthesized by soluble metallocene/methylaluminoxane catalysts. Macromolecular Chemistry and Physics, 1998, 199, 955-962.	1.1	72
16	Controlling molecular weight distributions of polyethylene by combining soluble metallocene/MAO catalysts. Journal of Polymer Science Part A, 1998, 36, 831-840.	2.5	71
17	Thermally stable thin film composite polymeric membranes for water treatment: A review. Journal of Cleaner Production, 2020, 250, 119447.	4.6	71
18	Analyzing TREF data by stockmayer's bivariate distribution. Macromolecular Theory and Simulations, 1995, 4, 305-324.	0.6	69

#	Article	IF	Citations
19	Copolymerization of ethylene and ?-olefins with combined metallocene catalysts. I. A formal criterion for molecular weight bimodality. Journal of Polymer Science Part A, 2000, 38, 1408-1416.	2.5	69
20	Removal of Heavy Metal Water Pollutants (Co²⁺ and Ni²⁺) Using Polyacrylamide/Sodium Montmorillonite (PAM/Na-MMT) Nanocomposites. ACS Omega, 2019, 4, 10834-10844.	1.6	68
21	Ethylene/1-hexene copolymers synthesized with a single-site catalyst: Crystallization analysis fractionation, modeling, and reactivity ratio estimation. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2595-2611.	2.4	67
22	Environmental stress cracking resistance of polyethylene: The use of CRYSTAF and SEC to establish structure-property relationships. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1267-1275.	2.4	66
23	Monitoring polymer flocculation in oil sands tailings: A population balance model approach. Chemical Engineering Journal, 2018, 346, 447-457.	6.6	66
24	The Influence of Tailings Composition on Flocculation. Canadian Journal of Chemical Engineering, 2015, 93, 1514-1523.	0.9	64
25	Use of hydrogen for the tailoring of the molecular weight distribution of polyethylene in a bimetallic supported metallocene catalyst system. Macromolecular Rapid Communications, 1998, 19, 197-199.	2.0	63
26	Synthesis of tailor-made polyethylene through the control of polymerization conditions using selectively combined metallocene catalysts in a supported system. Journal of Polymer Science Part A, 1999, 37, 331-339.	2.5	63
27	Polymerization mechanism forin situ supported metallocene catalysts. Journal of Polymer Science Part A, 2000, 38, 462-468.	2.5	61
28	Crystallization analysis fractionation. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1557-1570.	2.4	58
29	Recipes for synthesizing polyolefins with tailor-made molecular weight, polydispersity index, long-chain branching frequencies, and chemical composition using combined metallocene catalyst systems in a CSTR at steady state. Journal of Applied Polymer Science, 1999, 71, 1753-1770.	1.3	57
30	Copolymerization of ethylene and ?-olefins with combined metallocene catalysts. III. Production of polyolefins with controlled microstructures. Journal of Polymer Science Part A, 2000, 38, 1427-1432.	2.5	57
31	Measurement and mathematical modeling of molecular weight and chemical composition distributions of ethylene/-olefin copolymers synthesized with a heterogeneous Ziegler-Natta catalyst. Macromolecular Chemistry and Physics, 2000, 201, 1226-1234.	1.1	57
32	Dynamic Monte Carlo Simulation of Atom-Transfer Radical Polymerization. Macromolecular Materials and Engineering, 2006, 291, 993-1003.	1.7	57
33	Polyethylene Made with In Situ Supported Ni-Diimine/SMAO: Replication Phenomenon and Effect of Polymerization Conditions on Polymer Microstructure and Morphology. Macromolecular Chemistry and Physics, 2001, 202, 3237-3247.	1.1	55
34	Combined metallocene catalysts: an efficient technique to manipulate long-chain branching frequency of polyethylene. Macromolecular Rapid Communications, 1999, 20, 541-545.	2.0	54
35	The chemical composition component of the distribution of chain length and long chain branching for copolymerization of olefins and polyolefin chains containing terminal double-bonds. Macromolecular Theory and Simulations, 1997, 6, 591-596.	0.6	52
36	Supported singleâ€site catalysts for slurry and gasâ€phase olefin polymerisation. Canadian Journal of Chemical Engineering, 2012, 90, 646-671.	0.9	51

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37	HDPE/LLDPE reactor blends with bimodal microstructuresâ€”Part II: rheological properties. Polymer, 2003, 44, 177-185.	1.8	50
38	Effect of operation parameters on temperature rising elution fractionation and crystallization analysis fractionation. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1762-1778.	2.4	50
39	Using acrylamide/propylene oxide copolymers to dewater and densify mature fine tailings. Minerals Engineering, 2016, 95, 29-39.	1.8	50
40	An Overview of Important Microstructural Distributions for Polyolefin Analysis. Macromolecular Symposia, 2007, 257, 1-12.	0.4	49
41	Effect of hydrogen on ethylene polymerization using in-situ supported metallocene catalysts. Macromolecular Chemistry and Physics, 2000, 201, 552-557.	1.1	48
42	A new methodology for studying multiple-site-type catalysts for the copolymerization of olefins. Macromolecular Chemistry and Physics, 1996, 197, 3383-3396.	1.1	46
43	Copolymerization of ethylene and 1-hexene with in-situ supported Et[Ind]2ZrCl2. Macromolecular Chemistry and Physics, 1999, 200, 2372-2376.	1.1	46
44	Variation of molecular weight distribution (MWD) and short chain branching distribution (SCBD) of ethylene/1-hexene copolymers produced with different in-situ supported metallocene catalysts. Macromolecular Chemistry and Physics, 2000, 201, 340-348.	1.1	46
45	Modeling of fractionation in CRYSTAF using Monte Carlo simulation of crystallizable sequence lengths: Ethylene/1-octene copolymers synthesized with single-site-type catalysts. Journal of Applied Polymer Science, 2001, 80, 2200-2206.	1.3	46
46	Effect of molecular weight and average comonomer content on the crystallization analysis fractionation (Crystaf) of ethylene Î±-olefin copolymers. Polymer, 2003, 44, 2393-2401.	1.8	46
47	Polyolefins with Long Chain Branches Made with Single-Site Coordination Catalysts: A Review of Mathematical Modeling Techniques for Polymer Microstructure. Macromolecular Materials and Engineering, 2004, 289, 70-87.	1.7	45
48	Crystallization analysis fractionation (CRYSTAF) of poly(ethylene-co-1-octene) made with single-site-type catalysts: A mathematical model for the dependence of composition distribution on molecular weight. Macromolecular Chemistry and Physics, 1998, 199, 1917-1926.	1.1	44
49	Ethylene/1-octene copolymerization studies within situ supported metallocene catalysts: Effect of polymerization parameters on the catalyst activity and polymer microstructure. Journal of Polymer Science Part A, 2002, 40, 4426-4451.	2.5	44
50	HDPE/LLDPE reactor blends with bimodal microstructuresâ€”part I: mechanical properties. Polymer, 2002, 43, 7345-7365.	1.8	44
51	Fabrication of Highly Permeable and Thermally Stable Reverse Osmosis Thin Film Composite Polyamide Membranes. ACS Applied Materials & Interfaces, 2020, 12, 2916-2925.	4.0	44
52	Effect of hydrogen and of catalyst prepolymerization with propylene on the polymerization kinetics of ethylene with a non-supported heterogeneous Ziegler-Natta catalyst. Polymer, 1996, 37, 4599-4605.	1.8	41
53	Distribution of the Longest Ethylene Sequence in Ethylene/Î±-Olefin Copolymers Synthesized with Single-Site-Type Catalysts. Macromolecular Theory and Simulations, 2002, 11, 326.	0.6	41
54	Copolymerization of ethylene and 1-hexene with supported metallocene catalysts: Effect of support treatment. Macromolecular Rapid Communications, 1999, 20, 347-350.	2.0	40

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55	Flocculation of oil sands tailings by hyperbranched functionalized polyethylenes (HBfPE). Minerals Engineering, 2017, 108, 71-82.	1.8	40
56	Effect of prepolymerization and hydrogen pressure on the microstructure of ethylene/1-hexene copolymers made with MgCl2-supported TiCl3 catalysts. European Polymer Journal, 2000, 36, 3-11.	2.6	39
57	Dynamic Monte Carlo Simulation of ATRP in a Batch Reactor. Macromolecular Theory and Simulations, 2009, 18, 307-316.	0.6	39
58	Gradient Copolymers by ATRP in Semibatch Reactors: Dynamic Monte Carlo Simulation. Macromolecular Reaction Engineering, 2009, 3, 148-159.	0.9	39
59	Polyethylene Made with Combinations of Single-Site-Type Catalysts: Monte Carlo Simulation of Long-Chain Branch Formation. Macromolecular Theory and Simulations, 2002, 11, 222-232.	0.6	38
60	Crystallizability of ethylene homopolymers by crystallization analysis fractionation. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1616-1628.	2.4	37
61	Cocrystallization of Blends of Ethylene/1-Olefin Copolymers: An Investigation with Crystallization Analysis Fractionation(Crystaf). Macromolecular Chemistry and Physics, 2004, 205, 771-777.	1.1	37
62	Synthesis of Low Density Poly(ethylene) Using Nickel Iminophosphonamide Complexes. Macromolecules, 2007, 40, 2993-3004.	2.2	37
63	Simultaneous Deconvolution of the Bivariate Distribution of Molecular Weight and Chemical Composition of Polyolefins Made with Zieglerâ€Natta Catalysts. Macromolecular Rapid Communications, 2009, 30, 384-393.	2.0	37
64	The Use of Instantaneous Distributions in Polymerization Reaction Engineering. Macromolecular Reaction Engineering, 2014, 8, 235-259.	0.9	37
65	Dewatering Oil Sands Tailings with Degradable Polymer Flocculants. ACS Applied Materials & Interfaces, 2017, 9, 36290-36300.	4.0	36
66	Characterization and Modeling of Metallocene-Based Branchâ^'Block Copolymers. Macromolecules, 2002, 35, 9586-9594.	2.2	35
67	Effect of reactor residence time distribution on the size distribution of polymer particles made with heterogeneous Ziegler-Natta and supported metallocene catalysts. A generic mathematical model. Macromolecular Theory and Simulations, 1995, 4, 1085-1104.	0.6	34
68	Effect of experimental conditions on ethylene polymerization within-situ-supported metallocene catalyst. Journal of Polymer Science Part A, 2000, 38, 1803-1810.	2.5	33
69	Dynamic Monte Carlo Simulation of ATRP with Bifunctional Initiators. Macromolecular Reaction Engineering, 2007, 1, 95-105.	0.9	33
70	Nanodiamond-Enabled Thin-Film Nanocomposite Polyamide Membranes for High-Temperature Water Treatment. ACS Applied Materials & Interfaces, 2020, 12, 53274-53285.	4.0	33
71	A Second Look at Modeling the Multiplicity of Active Site Types of Ziegler-Natta Catalysts with Flory's and Stockmayer's Distributions. Polymer-Plastics Technology and Engineering, 1998, 6, 225-241.	0.7	32
72	Analysis of the chemical composition distribution of ethylene/Î±-olefin copolymers by solution differential scanning calorimetry: an alternative technique to Crystaf. Polymer, 2004, 45, 4787-4799.	1.8	32

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73	Ethylene Homopolymerization Kinetics with a Constrained Geometry Catalyst in a Solution Reactor. Macromolecules, 2012, 45, 1777-1791.	2.2	31
74	Nanodiamond-decorated thin film composite membranes with antifouling and antibacterial properties. Desalination, 2022, 522, 115436.	4.0	31
75	Polyolefin analysis by single-step crystallization fractionation. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 539-552.	2.4	30
76	Copolymerization of ethylene and ?-olefins with combined metallocene catalysts. II. Mathematical modeling of polymerization with single metallocene catalysts. Journal of Polymer Science Part A, 2000, 38, 1417-1426.	2.5	30
77	A Methodology for Estimating Kinetic Parameters and Reactivity Ratios of Multiâ€site Type Catalysts Using Polymerization, Fractionation, and Spectroscopic Techniques. Macromolecular Reaction Engineering, 2018, 12, 1700056.	0.9	30
78	Production of polyolefins with controlled long chain branching and molecular weight distributions using mixed metallocene catalysts. Macromolecular Symposia, 2001, 173, 179-194.	0.4	29
79	Round-robin experiment in high-temperature gel permeation chromatography. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 905-921.	2.4	29
80	Dimerization and polymerization of ethylene catalyzed by nickel complexes bearing multidentate amino-functionalized indenyl ligands. Journal of Molecular Catalysis A, 2003, 193, 51-58.	4.8	29
81	Derivation of the Distributions of Long Chain Branching, Molecular Weight, Seniority, and Priority for Polyolefins Made with Two Metallocene Catalysts. Macromolecules, 2003, 36, 10037-10051.	2.2	29
82	Atom transfer radical polymerization (ATRP) of styrene and acrylonitrile with monofunctional and bifunctional initiators. Polymer, 2007, 48, 1954-1961.	1.8	29
83	Atom-transfer radical polymerization of styrene with bifunctional and monofunctional initiators: Experimental and mathematical modeling results. Journal of Polymer Science Part A, 2007, 45, 2212-2224.	2.5	29
84	Chain Length Distributions of Polyolefins Made with Coordination Catalysts at Very Short Polymerization Times â€“ Analytical Solution and Monte Carlo Simulation. Macromolecular Reaction Engineering, 2007, 1, 53-67.	0.9	29
85	Prediction of Chain Length Distribution of Polystyrene Made in Batch Reactors with Bifunctional Free-Radical Initiators Using Dynamic Monte Carlo Simulation. Macromolecular Reaction Engineering, 2007, 1, 364-383.	0.9	29
86	Effect of Hydrogen and External Donor on Propylene Polymerization Kinetics with a 4thâ€Generation Zieglerâ€Natta Catalyst. Macromolecular Reaction Engineering, 2012, 6, 265-274.	0.9	29
87	Dewatering Oil Sands Mature Fine Tailings (MFTs) with Poly(acrylamide-co-diallyldimethylammonium chloride): Effect of Average Molecular Weight and Copolymer Composition. Industrial & Engineering Chemistry Research, 2017, 56, 1256-1266.	1.8	29
88	A novel hydrophobically-modified polyelectrolyte for enhanced dewatering of clay suspension. Chemosphere, 2018, 194, 422-431.	4.2	29
89	Effect of polymerization temperature and pressure on the microstructure of Ni-diimine-catalyzed polyethylene: parameter identification for Monte-Carlo simulation. Chemical Engineering Science, 2001, 56, 4181-4190.	1.9	28
90	Characterization of Ethyleneâ€1â€Hexene Copolymers Made with Supported Metallocene Catalysts: Influence of Support Type. Macromolecular Symposia, 2007, 257, 103-111.	0.4	28

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91	Mathematical Modeling of the Long-Chain Branch Structure of Polyolefins Made with Two Metallocene Catalysts: An Algebraic Solution. Macromolecular Theory and Simulations, 2002, 11, 184-198.	0.6	27
92	Mathematical Modeling of Atom-Transfer Radical Copolymerization. Macromolecular Reaction Engineering, 2007, 1, 468-479.	0.9	27
93	Using alkylaluminium activators to tailor short chain branching distributions of ethylene/1-hexene copolymers produced with in-situ supported metallocene catalysts. Macromolecular Chemistry and Physics, 2000, 201, 2195-2202.	1.1	26
94	Synthesis of Supported Nickel Diimine Catalysts for Ethylene Slurry Polymerization. Macromolecular Chemistry and Physics, 2009, 210, 1979-1988.	1.1	26
95	Amorphous to high crystalline PE made by mono and dinuclear Fe-based catalysts. European Polymer Journal, 2019, 119, 229-238.	2.6	26
96	Monte-Carlo simulation of branching distribution in Ni-diimine catalyzed polyethylene. AICHE Journal, 2000, 46, 1234-1240.	1.8	25
97	Mathematical modeling of crystallization analysis fractionation of ethylene/1-hexene copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1010-1017.	2.4	25
98	Quantifying the effect of polyacrylamide dosage, Na+ and Ca2+ concentrations, and clay particle size on the flocculation of mature fine tailings with robust statistical methods. Chemosphere, 2018, 208, 263-272.	4.2	25
99	Kinetic investigation of ethylene polymerization catalyzed by nickel-diimine catalysts. Journal of Molecular Catalysis A, 2001, 165, 55-66.	4.8	24
100	Chemical Composition Distribution of Multicomponent Copolymers. Macromolecular Theory and Simulations, 2003, 12, 229-236.	0.6	24
101	Mathematical modeling of crystallization analysis fractionation (Crystaf) of polyethylene. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2749-2759.	2.4	24
102	Supported hybrid early and late transition metal catalysts for the synthesis of polyethylene with tailored molecular weight and chemical composition distributions. Polymer, 2010, 51, 4713-4725.	1.8	24
103	Ethylene/1â€Hexene Copolymers Produced with MAO/(nBuCp)₂ZrCl₂ Supported on SBAâ€15 Materials with Different Pore Sizes. Macromolecular Chemistry and Physics, 2011, 212, 1590-1599.	1.1	24
104	Direct production of ultra-high molecular weight polyethylene with oriented crystalline microstructures. Journal of Molecular Catalysis A, 2013, 366, 74-83.	4.8	24
105	Estimation of Apparent Kinetic Constants of Individual Site Types for the Polymerization of Ethylene and Î±â€olefins with Zieglerâ€“Natta Catalysts. Macromolecular Reaction Engineering, 2016, 10, 551-566.	0.9	24
106	Advanced Polymer Flocculants for Solidâ€“Liquid Separation in Oil Sands Tailings. Macromolecular Rapid Communications, 2019, 40, e1800644.	2.0	24
107	Cationic Hydrolytically Degradable Flocculants with Enhanced Water Recovery for Oil Sands Tailings Remediation. Macromolecular Materials and Engineering, 2016, 301, 1248-1254.	1.7	23
108	A Mathematical Model for the Kinetics of Crystallization in Crystaf. Macromolecular Symposia, 2007, 257, 94-102.	0.4	22

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109	Simultaneous Deconvolution of Molecular Weight Distribution and Chemical Composition Distribution of Ethylene/1â€Olefin Copolymers Synthesized with Multipleâ€Siteâ€Type Catalytic Systems. Macromolecular Symposia, 2009, 282, 167-174.	0.4	22
110	Fractionation of Ethylene/1-Octene Copolymers by High-Temperature Thermal Gradient Interaction Chromatography. Industrial & Engineering Chemistry Research, 2014, 53, 9228-9235.	1.8	22
111	Analysis of Ethylene/1-Olefin Copolymers Made with Ziegler-Natta Catalysts by Deconvolution of Molecular Weight and Average Short Chain Branching Distributions. Macromolecular Reaction Engineering, 2016, 10, 206-214.	0.9	22
112	A critical examination of polyethylene molecular weight distribution control through the combination of soluble metallocene/methylalumoxane catalysts. Polymer International, 1998, 47, 351-360.	1.6	21
113	Modeling of Atom Transfer Radical Polymerization with Bifunctional Initiators: Diffusion Effects and Case Studies. Macromolecular Chemistry and Physics, 2006, 207, 469-483.	1.1	21
114	Simultaneous Deconvolution of Molecular Weight and Chemical Composition Distribution of Ethylene/1â€Olefin Copolymers: Strategy Validation and Comparison. Macromolecular Reaction Engineering, 2011, 5, 549-562.	0.9	21
115	Enhanced Flocculation of Oil Sands Mature Fine Tailings Using Hydrophobically Modified Polyacrylamide Copolymers. Global Challenges, 2018, 2, 1700135.	1.8	21
116	Synthesis of low to high molecular weight poly(1-hexene); rigid/flexible structures in a di- and mononuclear Ni-based catalyst series. New Journal of Chemistry, 2018, 42, 8334-8337.	1.4	21
117	Simultaneous Deconvolution of the Molecular Weight and Chemical Composition Distribution of Polyolefins Made with Zieglerâ€Natta Catalysts. Macromolecular Symposia, 2009, 285, 81-89.	0.4	20
118	Cocrystallization of ethylene/1â€octene copolymer blends during crystallization analysis fractionation and crystallization elution fractionation. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 678-684.	2.4	20
119	Dewatering of Oil Sands Tailings with Novel Chitosan-Based Flocculants. Energy & Fuels, 2018, 32, 5271-5278.	2.5	20
120	Polymerization reaction engineering: past, present and future. Macromolecular Symposia, 2004, 206, 1-14.	0.4	19
121	Microstructural Characterization of Molecular Weight Fractions of Ethylene/1,7-Octadiene Copolymers Made with a Constrained Geometry Catalyst. Macromolecular Materials and Engineering, 2005, 290, 584-591.	1.7	19
122	Ethylene slurry polymerization using nickel diimine catalysts covalently-attached onto MgCl2-based supports. Polymer, 2010, 51, 2271-2276.	1.8	19
123	Characterization of Ethylene/Î±â€Olefin Copolymers Using Highâ€Temperature Thermal Gradient Interaction Chromatography. Macromolecular Chemistry and Physics, 2014, 215, 465-475.	1.1	19
124	Investigation on the flocculation of oil sands mature fine tailings with alkoxysilanes. Minerals Engineering, 2017, 111, 90-99.	1.8	19
125	Monte Carlo Simulation of Long-Chain Branched Polyolefins Made with Dual Catalysts:Â A Classification of Chain Structures in Topological Branching Families. Industrial & Engineering Chemistry Research, 2005, 44, 2461-2468.	1.8	18
126	Mathematical Modeling of Atom-Transfer Radical Polymerization Using Bifunctional Initiators. Macromolecular Theory and Simulations, 2006, 15, 198-214.	0.6	18

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127	Cooperative effect through different bridges in nickel catalysts for polymerization of ethylene. Applied Organometallic Chemistry, 2019, 33, e4929.	1.7	18
128	The influence of the Ti3+ species on the microstructure of ethylene/1-hexene copolymers. Macromolecular Chemistry and Physics, 1999, 200, 1298-1305.	1.1	17
129	Title is missing!. Macromolecular Chemistry and Physics, 2002, 203, 1895-1905.	1.1	17
130	Effects of the type and concentration of alkylaluminum cocatalysts on the molar mass of polypropylene made within situ supported metallocene catalysts. Journal of Applied Polymer Science, 2005, 95, 1050-1055.	1.3	17
131	Polyethylene/Clay Nanocomposites Made with Metallocenes Supported on Different Organoclays. Macromolecular Chemistry and Physics, 2011, 212, 216-228.	1.1	17
132	Estimation of Polymerization Conditions Needed to Make Ethylene/1-olefin Copolymers with Specific Microstructures Using Artificial Neural Networks. Macromolecular Reaction Engineering, 2016, 10, 215-232.	0.9	17
133	Synthesis of poly(Î±-olefins) containing rare short-chain branches by dinuclear Ni-based catalysts. New Journal of Chemistry, 2018, 42, 18288-18296.	1.4	17
134	Structure Modifications of Hydrolytically-Degradable Polymer Flocculant for Improved Water Recovery from Mature Fine Tailings. Industrial & Engineering Chemistry Research, 2018, 57, 10809-10822.	1.8	17
135	Evaluation of adsorption capacities of nanocomposites prepared from bean starch and montmorillonite. Sustainable Chemistry and Pharmacy, 2020, 17, 100292.	1.6	17
136	Evolution of Molecular Weight and Long Chain Branch Distributions in Olefinâ€“Diene Copolymerization. Macromolecular Theory and Simulations, 2003, 12, 582-592.	0.6	16
137	Polypropylene obtained with in situ supported metallocene catalysts. Journal of Molecular Catalysis A, 2003, 202, 127-134.	4.8	16
138	Monte Carlo Simulation of the Microstructure of Linear Olefin Block Copolymers. Macromolecular Symposia, 2012, 312, 167-173.	0.4	16
139	Correlation of Polymerization Conditions with Thermal and Mechanical Properties of Polyethylenes Made with Ziegler-Natta Catalysts. International Journal of Polymer Science, 2014, 2014, 1-10.	1.2	16
140	Atypical Multiple Site Behavior of Hafnocene Catalysts in Ethylene/1-Hexene Copolymerization Using Trioctylaluminum and Borate. Macromolecules, 2018, 51, 7061-7076.	2.2	16
141	High-density polyethylene fractionation with supercritical propane. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 553-560.	2.4	15
142	Effect of cocatalyst on the chain microstructure of polyethylene made with CGC-Ti/MAO/B(C6F5)3. Journal of Polymer Science Part A, 2004, 42, 3055-3061.	2.5	15
143	Application of a crystallization kinetics model to simulate the effect of operation conditions on Crystaf profiles and calibration curves. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 866-876.	2.4	15
144	The Integrated Deconvolution Estimation Model: A Parameter Estimation Method for Ethylene/Î±â€Olefin Copolymers Made with Multipleâ€Site Catalysts. Macromolecular Reaction Engineering, 2010, 4, 578-590.	0.9	15

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145	The Integrated Deconvolution Estimation Model: Estimation of Reactivity Ratios per Site Type for Ethylene/1â€Butene Copolymers Made with a Heterogeneous Zieglerâ€Natta Catalyst. Macromolecular Reaction Engineering, 2011, 5, 587-598.	0.9	15
146	Effect of Hydrogen and External Donor on the Microstructure of Polypropylene Made with a 4th Generation Zieglerâ€“Natta Catalyst. Macromolecular Reaction Engineering, 2013, 7, 135-145.	0.9	15
147	A conceptual multilevel approach to polyolefin reaction engineering. Canadian Journal of Chemical Engineering, 2022, 100, 2432-2474.	0.9	15
148	Polypropylene Made with In-Situ Supported Me2Si(Ind)2ZrCl2 and Me2Si(2-Me-Ind)2ZrCl2 Catalysts: Properties Comparison. Macromolecular Chemistry and Physics, 2004, 205, 1525-1529.	1.1	14
149	Polyolefin Reaction Engineering - An Overview of Recent Developments. Macromolecular Materials and Engineering, 2005, 290, 507-510.	1.7	14
150	A kinetic study of metallocene-catalyzed ethylene polymerization using different aluminoxane cocatalysts. Journal of Polymer Science Part A, 2007, 45, 1677-1690.	2.5	14
151	Production of Longâ€Chain Branched Polyolefins with Two Singleâ€Site Catalysts: Comparing CSTR and Semiâ€Batch Performance. Macromolecular Reaction Engineering, 2008, 2, 529-550.	0.9	14
152	Production of Ethylene/Î±-Olefin/1,9-Decadiene Copolymers with Complex Microstructures Using a Two-Stage Polymerization Process. Macromolecules, 2011, 44, 7926-7939.	2.2	14
153	Mathematical Modeling of the Microstructure of Poly(propylene) Made with Zieglerâ€Natta Catalysts in the Presence of Electron Donors. Macromolecular Reaction Engineering, 2011, 5, 96-116.	0.9	14
154	A Polymerization Kinetics Comparison between a Metallocene Catalyst Activated by Tetrakis(pentafluorophenyl) Borate and MAO for the Polymerization of Ethylene in a Semiâ€batch Solution Reactor. Macromolecular Reaction Engineering, 2011, 5, 418-430.	0.9	14
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