

# Joo B P Soares

## List of Publications by Citations

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295  
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336  
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6,549  
ext. citations

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L-index

#	Paper	IF	Citations
295	Single particle modelling for olefin polymerization on supported catalysts: A review and proposals for future developments. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 3931-3949	4.4	196
294	Polymerization reaction engineering [Metallocene catalysts. <i>Progress in Polymer Science</i> , <b>1996</b> , 21, 651-706	29.6	152
293	Mathematical Modeling of Multicomponent Chain-Growth Polymerizations in Batch, Semibatch, and Continuous Reactors: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 966-1013	3.9	143
292	Mathematical modelling of the microstructure of polyolefins made by coordination polymerization: a review. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 4131-4153	4.4	125
291	Fractionation of Semicrystalline Polymers by Crystallization Analysis Fractionation and Temperature Rising Elution Fractionation. <i>Advances in Polymer Science</i> , <b>2005</b> , 1-54	1.3	116
290	<b>2012</b> ,		114
289	Bivariate chain length and long chain branching distribution for copolymerization of olefins and polyolefin chains containing terminal double-bonds. <i>Macromolecular Theory and Simulations</i> , <b>1996</b> , 5, 547-572	1.5	100
288	Particle Growth During the Polymerisation of Olefins on Supported Catalysts, 1 [Nascent Polymer Structures. <i>Macromolecular Reaction Engineering</i> , <b>2010</b> , 4, 40-64	1.5	95
287	Polyethylene/Clay hybrid nanocomposites: in situ polymerization using bifunctional organic modifiers. <i>Polymer</i> , <b>2003</b> , 44, 5317-5321	3.9	77
286	Water-soluble polymers for oil sands tailing treatment: A Review. <i>Canadian Journal of Chemical Engineering</i> , <b>2015</b> , 93, 888-904	2.3	75
285	When Polymer Reaction Engineers Play Dice: Applications of Monte Carlo Models in PRE. <i>Macromolecular Reaction Engineering</i> , <b>2015</b> , 9, 141-185	1.5	73
284	Metallocene/Aluminoxane Catalysts for Olefin Polymerization. A Review. <i>Polymer-Plastics Technology and Engineering</i> , <b>1995</b> , 3, 131-200		70
283	Water Soluble Polymer Flocculants: Synthesis, Characterization, and Performance Assessment. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800526	3.9	68
282	Analysis and Control of the Molecular Weight and Chemical Composition Distributions of Polyolefins Made with Metallocene and Ziegler-Natta Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 1144-1150	3.9	68
281	Effect of operating conditions on the molecular weight distribution of polyethylene synthesized by soluble metallocene/methylaluminoxane catalysts. <i>Macromolecular Chemistry and Physics</i> , <b>1998</b> , 199, 955-962	2.6	68
280	Controlling molecular weight distributions of polyethylene by combining soluble metallocene/MAO catalysts. <i>Journal of Polymer Science Part A</i> , <b>1998</b> , 36, 831-840	2.5	59
279	Use of hydrogen for the tailoring of the molecular weight distribution of polyethylene in a bimetallic supported metallocene catalyst system. <i>Macromolecular Rapid Communications</i> , <b>1998</b> , 19, 1974-1998	4.8	59

278	Analyzing TREF data by stockmayer@ bivariate distribution. <i>Macromolecular Theory and Simulations</i> , <b>1995</b> , 4, 305-324	1.5	58
277	Ethylene/1-hexene copolymers synthesized with a single-site catalyst: Crystallization analysis fractionation, modeling, and reactivity ratio estimation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 2595-2611	2.6	57
276	Copolymerization of ethylene and 1-olefins with combined metallocene catalysts. I. A formal criterion for molecular weight bimodality. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 1408-1416	2.5	57
275	Synthesis of tailor-made polyethylene through the control of polymerization conditions using selectively combined metallocene catalysts in a supported system. <i>Journal of Polymer Science Part A</i> , <b>1999</b> , 37, 331-339	2.5	56
274	Application of solidifiers for oil spill containment: A review. <i>Chemosphere</i> , <b>2018</b> , 194, 837-846	8.4	56
273	Environmental stress cracking resistance of polyethylene: The use of CRYSTAF and SEC to establish structure@property relationships. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 1267-1275	2.6	53
272	Polymerization mechanism for in situ supported metallocene catalysts. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 462-468	2.5	53
271	Crystallization analysis fractionation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 1557-1570	2.6	52
270	Dynamic Monte Carlo Simulation of Atom-Transfer Radical Polymerization. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 993-1003	3.9	51
269	Measurement and mathematical modeling of molecular weight and chemical composition distributions of ethylene/1-olefin copolymers synthesized with a heterogeneous Ziegler-Natta catalyst. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 1226-1234	2.6	49
268	Copolymerization of ethylene and 1-olefins with combined metallocene catalysts. III. Production of polyolefins with controlled microstructures. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 1427-1432	2.5	48
267	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. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 71, 1753-1770	2.9	48
266	Monitoring polymer flocculation in oil sands tailings: A population balance model approach. <i>Chemical Engineering Journal</i> , <b>2018</b> , 346, 447-457	14.7	47
265	Combined metallocene catalysts: an efficient technique to manipulate long-chain branching frequency of polyethylene. <i>Macromolecular Rapid Communications</i> , <b>1999</b> , 20, 541-545	4.8	46
264	An Overview of Important Microstructural Distributions for Polyolefin Analysis. <i>Macromolecular Symposia</i> , <b>2007</b> , 257, 1-12	0.8	45
263	HDPE/LLDPE reactor blends with bimodal microstructures@Part II: rheological properties. <i>Polymer</i> , <b>2003</b> , 44, 177-185	3.9	45
262	Polyethylene Made with In Situ Supported Ni@Diimine/SMAO: Replication Phenomenon and Effect of Polymerization Conditions on Polymer Microstructure and Morphology. <i>Macromolecular Chemistry and Physics</i> , <b>2001</b> , 202, 3237-3247	2.6	45
261	Effect of operation parameters on temperature rising elution fractionation and crystallization analysis fractionation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 1762-1778	2.6	44

260	Effect of hydrogen on ethylene polymerization using in-situ supported metallocene catalysts. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 552-557	2.6	44
259	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. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 340-348	2.6	43
258	Supported single-site catalysts for slurry and gas-phase olefin polymerisation. <i>Canadian Journal of Chemical Engineering</i> , <b>2012</b> , 90, 646-671	2.3	42
257	Effect of molecular weight and average comonomer content on the crystallization analysis fractionation (Crystaf) of ethylene/olefin copolymers. <i>Polymer</i> , <b>2003</b> , 44, 2393-2401	3.9	42
256	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. <i>Macromolecular Theory and Simulations</i> , <b>1997</b> , 6, 591-596	1.5	41
255	Ethylene/1-octene copolymerization studies with in situ supported metallocene catalysts: Effect of polymerization parameters on the catalyst activity and polymer microstructure. <i>Journal of Polymer Science Part A</i> , <b>2002</b> , 40, 4426-4451	2.5	41
254	Modeling of fractionation in CRYSTAF using Monte Carlo simulation of crystallizable sequence lengths: Ethylene/1-octene copolymers synthesized with single-site type catalysts. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 2200-2206	2.9	41
253	Copolymerization of ethylene and 1-hexene with in-situ supported Et[Ind] <sub>2</sub> ZrCl <sub>2</sub> . <i>Macromolecular Chemistry and Physics</i> , <b>1999</b> , 200, 2372-2376	2.6	41
252	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. <i>Macromolecular Chemistry and Physics</i> , <b>1998</b> , 199, 1917-1926	2.6	40
251	A new methodology for studying multiple-site-type catalysts for the copolymerization of olefins. <i>Macromolecular Chemistry and Physics</i> , <b>1996</b> , 197, 3383-3396	2.6	40
250	Thermally stable thin film composite polymeric membranes for water treatment: A review. <i>Journal of Cleaner Production</i> , <b>2020</b> , 250, 119447	10.3	40
249	The Influence of Tailings Composition on Flocculation. <i>Canadian Journal of Chemical Engineering</i> , <b>2015</b> , 93, 1514-1523	2.3	39
248	Effect of hydrogen and of catalyst prepolymerization with propylene on the polymerization kinetics of ethylene with a non-supported heterogeneous Ziegler-Natta catalyst. <i>Polymer</i> , <b>1996</b> , 37, 4599-4605	3.9	39
247	HDPE/LLDPE reactor blends with bimodal microstructures Part I: mechanical properties. <i>Polymer</i> , <b>2002</b> , 43, 7345-7365	3.9	38
246	Copolymerization of ethylene and 1-hexene with supported metallocene catalysts: Effect of support treatment. <i>Macromolecular Rapid Communications</i> , <b>1999</b> , 20, 347-350	4.8	38
245	Removal of Heavy Metal Water Pollutants (Co and Ni) Using Polyacrylamide/Sodium Montmorillonite (PAM/Na-MMT) Nanocomposites. <i>ACS Omega</i> , <b>2019</b> , 4, 10834-10844	3.9	35
244	Dynamic Monte Carlo Simulation of ATRP in a Batch Reactor. <i>Macromolecular Theory and Simulations</i> , <b>2009</b> , 18, 307-316	1.5	35
243	Gradient Copolymers by ATRP in Semibatch Reactors: Dynamic Monte Carlo Simulation. <i>Macromolecular Reaction Engineering</i> , <b>2009</b> , 3, 148-159	1.5	35

242	Synthesis of Low Density Poly(ethylene) Using Nickel Iminophosphonamide Complexes. <i>Macromolecules</i> , <b>2007</b> , 40, 2993-3004	5.5	35
241	Crystallizability of ethylene homopolymers by crystallization analysis fractionation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2001</b> , 39, 1616-1628	2.6	35
240	Cocrystallization of Blends of Ethylene/1-Olefin Copolymers: An Investigation with Crystallization Analysis Fractionation (Crystaf). <i>Macromolecular Chemistry and Physics</i> , <b>2004</b> , 205, 771-777	2.6	34
239	Polyolefins with Long Chain Branches Made with Single-Site Coordination Catalysts: A Review of Mathematical Modeling Techniques for Polymer Microstructure. <i>Macromolecular Materials and Engineering</i> , <b>2004</b> , 289, 70-87	3.9	34
238	Distribution of the Longest Ethylene Sequence in Ethylene/1-Olefin Copolymers Synthesized with Single-Site-Type Catalysts. <i>Macromolecular Theory and Simulations</i> , <b>2002</b> , 11, 326	1.5	33
237	Using acrylamide/propylene oxide copolymers to dewater and densify mature fine tailings. <i>Minerals Engineering</i> , <b>2016</b> , 95, 29-39	4.9	32
236	Flocculation of oil sands tailings by hyperbranched functionalized polyethylenes (HB f PE). <i>Minerals Engineering</i> , <b>2017</b> , 108, 71-82	4.9	31
235	Analysis of the chemical composition distribution of ethylene/1-olefin copolymers by solution differential scanning calorimetry: an alternative technique to Crystaf. <i>Polymer</i> , <b>2004</b> , 45, 4787-4799	3.9	31
234	Polyethylene Made with Combinations of Single-Site-Type Catalysts: Monte Carlo Simulation of Long-Chain Branch Formation. <i>Macromolecular Theory and Simulations</i> , <b>2002</b> , 11, 222-232	1.5	31
233	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. <i>Macromolecular Theory and Simulations</i> , <b>1995</b> , 4, 1085-1104	1.5	31
232	Effect of prepolymerization and hydrogen pressure on the microstructure of ethylene/1-hexene copolymers made with MgCl <sub>2</sub> -supported TiCl <sub>3</sub> catalysts. <i>European Polymer Journal</i> , <b>2000</b> , 36, 3-11	5.2	30
231	Simultaneous deconvolution of the bivariate distribution of molecular weight and chemical composition of polyolefins made with ziegler-natta catalysts. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 384-93	4.8	29
230	Atom transfer radical polymerization (ATRP) of styrene and acrylonitrile with monofunctional and bifunctional initiators. <i>Polymer</i> , <b>2007</b> , 48, 1954-1961	3.9	29
229	Dynamic Monte Carlo Simulation of ATRP with Bifunctional Initiators. <i>Macromolecular Reaction Engineering</i> , <b>2007</b> , 1, 95-105	1.5	29
228	Characterization and Modeling of Metallocene-Based Branch/Block Copolymers. <i>Macromolecules</i> , <b>2002</b> , 35, 9586-9594	5.5	29
227	The Use of Instantaneous Distributions in Polymerization Reaction Engineering. <i>Macromolecular Reaction Engineering</i> , <b>2014</b> , 8, 235-259	1.5	28
226	Polyolefin analysis by single-step crystallization fractionation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1999</b> , 37, 539-552	2.6	28
225	Characterization of Ethylene-1-Hexene Copolymers Made with Supported Metallocene Catalysts: Influence of Support Type. <i>Macromolecular Symposia</i> , <b>2007</b> , 257, 103-111	0.8	27

224	Dimerization and polymerization of ethylene catalyzed by nickel complexes bearing multidentate amino-functionalized indenyl ligands. <i>Journal of Molecular Catalysis A</i> , <b>2003</b> , 193, 51-58		27
223	Copolymerization of ethylene and $\alpha$ -olefins with combined metallocene catalysts. II. Mathematical modeling of polymerization with single metallocene catalysts. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 1417-1426	2.5	27
222	A Second Look at Modeling the Multiplicity of Active Site Types of Ziegler-Natta Catalysts with Flory $\alpha$ and Stockmayer $\alpha$ Distributions. <i>Polymer-Plastics Technology and Engineering</i> , <b>1998</b> , 6, 225-241		27
221	Dewatering Oil Sands Tailings with Degradable Polymer Flocculants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36290-36300	9.5	26
220	Atom-transfer radical polymerization of styrene with bifunctional and monofunctional initiators: Experimental and mathematical modeling results. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 2212-2224	2.5	26
219	Effect of experimental conditions on ethylene polymerization with in-situ-supported metallocene catalyst. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 1803-1810	2.5	26
218	Chain Length Distributions of Polyolefins Made with Coordination Catalysts at Very Short Polymerization Times [Analytical Solution and Monte Carlo Simulation. <i>Macromolecular Reaction Engineering</i> , <b>2007</b> , 1, 53-67	1.5	25
217	Fabrication of Highly Permeable and Thermally Stable Reverse Osmosis Thin Film Composite Polyamide Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2916-2925	9.5	25
216	Ethylene Homopolymerization Kinetics with a Constrained Geometry Catalyst in a Solution Reactor. <i>Macromolecules</i> , <b>2012</b> , 45, 1777-1791	5.5	24
215	Supported hybrid early and late transition metal catalysts for the synthesis of polyethylene with tailored molecular weight and chemical composition distributions. <i>Polymer</i> , <b>2010</b> , 51, 4713-4725	3.9	24
214	Production of polyolefins with controlled long chain branching and molecular weight distributions using mixed metallocene catalysts. <i>Macromolecular Symposia</i> , <b>2001</b> , 173, 179-194	0.8	24
213	Effect of polymerization temperature and pressure on the microstructure of Ni-diimine-catalyzed polyethylene: parameter identification for Monte-Carlo simulation. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 4181-4190	4.4	24
212	Mathematical modeling of crystallization analysis fractionation of ethylene/1-hexene copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 1010-1017	2.6	23
211	Mathematical Modeling of Atom-Transfer Radical Copolymerization. <i>Macromolecular Reaction Engineering</i> , <b>2007</b> , 1, 468-479	1.5	23
210	Derivation of the Distributions of Long Chain Branching, Molecular Weight, Seniority, and Priority for Polyolefins Made with Two Metallocene Catalysts. <i>Macromolecules</i> , <b>2003</b> , 36, 10037-10051	5.5	23
209	Using alkylaluminum activators to tailor short chain branching distributions of ethylene/1-hexene copolymers produced with in-situ supported metallocene catalysts. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 2195-2202	2.6	23
208	Monte-Carlo simulation of branching distribution in Ni-diimine catalyzed polyethylene. <i>AIChE Journal</i> , <b>2000</b> , 46, 1234-1240	3.6	23
207	A novel hydrophobically-modified polyelectrolyte for enhanced dewatering of clay suspension. <i>Chemosphere</i> , <b>2018</b> , 194, 422-431	8.4	23

206	Prediction of Chain Length Distribution of Polystyrene Made in Batch Reactors with Bifunctional Free-Radical Initiators Using Dynamic Monte Carlo Simulation. <i>Macromolecular Reaction Engineering</i> , <b>2007</b> , 1, 364-383	1.5	22
205	Mathematical modeling of crystallization analysis fractionation (Crystaf) of polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 2749-2759	2.6	22
204	Round-robin experiment in high-temperature gel permeation chromatography. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2002</b> , 40, 905-921	2.6	22
203	Kinetic investigation of ethylene polymerization catalyzed by nickel-diimine catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2001</b> , 165, 55-66		22
202	Cationic Hydrolytically Degradable Flocculants with Enhanced Water Recovery for Oil Sands Tailings Remediation. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 1248-1254	3.9	22
201	Direct production of ultra-high molecular weight polyethylene with oriented crystalline microstructures. <i>Journal of Molecular Catalysis A</i> , <b>2013</b> , 366, 74-83		21
200	Ethylene/1-Hexene Copolymers Produced with MAO/(nBuCp) <sub>2</sub> ZrCl <sub>2</sub> Supported on SBA-15 Materials with Different Pore Sizes. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 1590-1599	2.6	21
199	A critical examination of polyethylene molecular weight distribution control through the combination of soluble metallocene/methylalumoxane catalysts. <i>Polymer International</i> , <b>1998</b> , 47, 351-360 <sup>3</sup>	2.3	21
198	Modeling of Atom Transfer Radical Polymerization with Bifunctional Initiators: Diffusion Effects and Case Studies. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 469-483	2.6	21
197	Mathematical Modeling of the Long-Chain Branch Structure of Polyolefins Made with Two Metallocene Catalysts: An Algebraic Solution. <i>Macromolecular Theory and Simulations</i> , <b>2002</b> , 11, 184-198 <sup>1.5</sup>	1.5	21
196	Dewatering Oil Sands Mature Fine Tailings (MFTs) with Poly(acrylamide-co-diallyldimethylammonium chloride): Effect of Average Molecular Weight and Copolymer Composition. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 1256-1266	3.9	20
195	Effect of Hydrogen and External Donor on Propylene Polymerization Kinetics with a 4th-Generation Ziegler-Natta Catalyst. <i>Macromolecular Reaction Engineering</i> , <b>2012</b> , 6, 265-274	1.5	20
194	Synthesis of Supported Nickel Diimine Catalysts for Ethylene Slurry Polymerization. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1979-1988	2.6	20
193	A Mathematical Model for the Kinetics of Crystallization in Crystaf. <i>Macromolecular Symposia</i> , <b>2007</b> , 257, 94-102	0.8	20
192	Amorphous to high crystalline PE made by mono and dinuclear Fe-based catalysts. <i>European Polymer Journal</i> , <b>2019</b> , 119, 229-238	5.2	19
191	Fractionation of Ethylene/1-Octene Copolymers by High-Temperature Thermal Gradient Interaction Chromatography. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 9228-9235	3.9	19
190	Quantifying the effect of polyacrylamide dosage, Na and Ca concentrations, and clay particle size on the flocculation of mature fine tailings with robust statistical methods. <i>Chemosphere</i> , <b>2018</b> , 208, 263-272	8.4	18
189	Mathematical Modeling of Atom-Transfer Radical Polymerization Using Bifunctional Initiators. <i>Macromolecular Theory and Simulations</i> , <b>2006</b> , 15, 198-214	1.5	18

188	A Methodology for Estimating Kinetic Parameters and Reactivity Ratios of Multi-site Type Catalysts Using Polymerization, Fractionation, and Spectroscopic Techniques. <i>Macromolecular Reaction Engineering</i> , <b>2018</b> , 12, 1700056	1.5	17
187	Characterization of Ethylene/Olefin Copolymers Using High-Temperature Thermal Gradient Interaction Chromatography. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 465-475	2.6	17
186	Ethylene slurry polymerization using nickel diimine catalysts covalently-attached onto MgCl <sub>2</sub> -based supports. <i>Polymer</i> , <b>2010</b> , 51, 2271-2276	3.9	17
185	Polymerization reaction engineering: past, present and future. <i>Macromolecular Symposia</i> , <b>2004</b> , 206, 1-14	0.8	17
184	Chemical Composition Distribution of Multicomponent Copolymers. <i>Macromolecular Theory and Simulations</i> , <b>2003</b> , 12, 229-236	1.5	17
183	Microstructural Characterization of Molecular Weight Fractions of Ethylene/1,7-Octadiene Copolymers Made with a Constrained Geometry Catalyst. <i>Macromolecular Materials and Engineering</i> , <b>2005</b> , 290, 584-591	3.9	17
182	Synthesis of low to high molecular weight poly(1-hexene); rigid/flexible structures in a di- and mononuclear Ni-based catalyst series. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 8334-8337	3.6	16
181	Dewatering of Oil Sands Tailings with Novel Chitosan-Based Flocculants. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5271-5278	4.1	16
180	Simultaneous Deconvolution of Molecular Weight and Chemical Composition Distribution of Ethylene/1-Olefin Copolymers: Strategy Validation and Comparison. <i>Macromolecular Reaction Engineering</i> , <b>2011</b> , 5, 549-562	1.5	16
179	Cocrystallization of ethylene/1-octene copolymer blends during crystallization analysis fractionation and crystallization elution fractionation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2011</b> , 49, 678-684	2.6	16
178	Simultaneous Deconvolution of Molecular Weight Distribution and Chemical Composition Distribution of Ethylene/1-Olefin Copolymers Synthesized with Multiple-Site-Type Catalytic Systems. <i>Macromolecular Symposia</i> , <b>2009</b> , 282, 167-174	0.8	16
177	Nanodiamond-Enabled Thin-Film Nanocomposite Polyamide Membranes for High-Temperature Water Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53274-53285	9.5	16
176	Monte Carlo Simulation of the Microstructure of Linear Olefin Block Copolymers. <i>Macromolecular Symposia</i> , <b>2012</b> , 312, 167-173	0.8	15
175	Polyethylene/Clay Nanocomposites Made with Metallocenes Supported on Different Organoclays. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 216-228	2.6	15
174	Simultaneous Deconvolution of the Molecular Weight and Chemical Composition Distribution of Polyolefins Made with Ziegler-Natta Catalysts. <i>Macromolecular Symposia</i> , <b>2009</b> , 285, 81-89	0.8	15
173	Enhanced Flocculation of Oil Sands Mature Fine Tailings Using Hydrophobically Modified Polyacrylamide Copolymers. <i>Global Challenges</i> , <b>2018</b> , 2, 1700135	4.3	14
172	Analysis of Ethylene/1-Olefin Copolymers Made with Ziegler-Natta Catalysts by Deconvolution of Molecular Weight and Average Short Chain Branching Distributions. <i>Macromolecular Reaction Engineering</i> , <b>2016</b> , 10, 206-214	1.5	14
171	Application of a crystallization kinetics model to simulate the effect of operation conditions on Crystaf profiles and calibration curves. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 866-876	2.6	14



170	Production of Long-Chain Branched Polyolefins with Two Single-Site Catalysts: Comparing CSTR and Semi-Batch Performance. <i>Macromolecular Reaction Engineering</i> , <b>2008</b> , 2, 529-550	1.5	14
169	Gas-phase polymerization of ethylene using supported metallocene catalysts: Study of polymerization conditions. <i>Macromolecular Chemistry and Physics</i> , <b>2002</b> , 203, 1895-1905	2.6	14
168	Effects of the type and concentration of alkylaluminum cocatalysts on the molar mass of polypropylene made with in situ supported metallocene catalysts. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 95, 1050-1055	2.9	14
167	The influence of the Ti <sup>3+</sup> species on the microstructure of ethylene/1-hexene copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>1999</b> , 200, 1298-1305	2.6	14
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165	Investigation on the flocculation of oil sands mature fine tailings with alkoxysilanes. <i>Minerals Engineering</i> , <b>2017</b> , 111, 90-99	4.9	13
164	Ethylene Polymerization and Ethylene/1-Octene Copolymerization with rac-Dimethylsilylbis(indenyl)hafnium Dimethyl Using Trioctyl Aluminum and Borate: A Polymerization Kinetics Investigation. <i>Macromolecules</i> , <b>2013</b> , 46, 1312-1324	5.5	13
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95	Copolymerization of Ethylene with 1,9-Decadiene: Part II Prediction of Molecular Weight Distributions. <i>Macromolecular Theory and Simulations</i> , <b>2017</b> , 26, 1700040	1.5	5
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93	Effect of Hydrogen, Electron Donor, and Polymerization Temperature on Poly(propylene) Microstructure. <i>Macromolecular Symposia</i> , <b>2012</b> , 312, 72-80	0.8	5
92	Effect of Operating Conditions on Dynamic Crystallization of Ethylene/1-Octene Copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 2591-2601	2.6	5
91	Mathematical Model of Dynamic Crystallization of Ethylene/1-Octene Copolymers. <i>Macromolecular Symposia</i> , <b>2013</b> , 330, 132-141	0.8	5
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67	Monte Carlo Simulation of Olefin Block Copolymers: Bivariate Distribution of Molecular Weight and Chemical Composition. <i>Macromolecular Symposia</i> , <b>2018</b> , 377, 1700060	0.8	3
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60	Observations on HDPE Characterization with a Microcalorimeter as a Complementary Tool to TREF and CRYSTAF. <i>Polymer-Plastics Technology and Engineering</i> , <b>2000</b> , 8, 159-165		3
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50	Polyolefin Microstructural Characterization <b>2012</b> , 15-52		2
49	Polyolefin Microstructural Modeling <b>2012</b> , 187-269		2
48	Introduction to Polyolefins <b>2012</b> , 1-13		2
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46	Metallocene catalyzed polymerization: industrial technology. <i>Polymer Science and Technology</i> , <b>1999</b> , 446-453		2
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42	Polymerization Kinetics and the Effect of Reactor Residence Time on Polymer Microstructure <b>2019</b> , 115-153		1
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37	A Novel Solution of Saito's Integral Equation for Random Scission Application on the Vtsbreakeng of Isotactic Polypropylene. <i>Polymer-Plastics Technology and Engineering</i> , <b>1997</b> , 5, 25-44		1
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