Joo B P Soares

List of Publications by Year in Descending Order

295 papers	5,851 citations	41 h-index	60 g-index
336 ext. papers	6,549 ext. citations	2.9 avg, IF	6.22 L-index

#	Paper	IF	Citations
295	Nanodiamond-decorated thin film composite membranes with antifouling and antibacterial properties. *Desalination*, **2022**, 522, 115436	10.3	4
294	Polystyrene magnetic nanocomposite blend: An effective, facile, and economical alternative in oil spill removal applications. *Chemosphere*, **2022**, 286, 131611	8.4	4
293	Preface to the special section in memory of Professor Kenneth F. O'Driscoll. *Canadian Journal of Chemical Engineering*, **2022**, 100, 643-644	2.3	
292	Torque-based evaluation of mixing optimization and shear sensitivity during transport of flocculated tailings. *Minerals Engineering*, **2022**, 181, 107541	4.9	
291	Ethylene/Propylene/Diene Terpolymers Grafted with Poly(methyl acrylate) by Reverse Atom Transfer Radical Polymerization. *Macromolecular Chemistry and Physics*, **2021**, 222, 2100189	2.6	1
290	Recovery of residual bitumen, dewatering, and consolidation of oil sands tailings with poly(acrylamide-co-lauric acid). *Minerals Engineering*, **2021**, 174, 107248	4.9	0
289	Ethylene/1-Hexene Copolymerization Kinetics and Microstructure of Copolymers Made with a Supported Metallocene Catalyst. *Macromolecular Reaction Engineering*, **2021**, 15, 2100041	1.5	1
288	Ethylene Polymerization Kinetics and Microstructure of Polyethylenes Made with Supported Metallocene Catalysts. *Industrial & Engineering Chemistry Research*, **2021**, 60, 9739-9754	3.9	2
287	Enhanced dewatering of oil sands tailings by a novel water-soluble cationic polymer. *Separation and Purification Technology*, **2021**, 260, 118183	8.3	4
286	Development of an Integrated Framework for Multiscale, Multiphase Modeling of Industrial Slurry-Phase Reactors for Polyethylene Production. *Macromolecular Reaction Engineering*, **2021**, 15, 2000043	1.5	5
285	Flocculating and dewatering of kaolin suspensions with different forms of poly(acrylamide-co-diallyl dimethylammonium chloride). *Canadian Journal of Chemical Engineering*, **2021**, 99, 489-501	2.3	1
284	Prediction of Temperature and Concentration Profiles in an Industrial Polymerization Fluidized Bed Reactor under Condensed-Mode Operation. *Industrial & Engineering Chemistry Research*, **2021**, 60, 990-1013	3.9	0
283	Flocculation Efficiency and Spatial Distribution of Water in Oil Sands Tailings Flocculated with a Partially Hydrophobic Graft Copolymer. *ACS Applied Materials & Interfaces*, **2021**, 13, 43726-43733	9.5	1
282	Flocculation and dewatering of oil sands tailings with a novel functionalized polyolefin flocculant. *Separation and Purification Technology*, **2021**, 274, 119018	8.3	4
281	Cellulose Nanocrystals-Based Polyacrylamide as Flocculating Agent of Mature Fine Tailings. *Macromolecular Symposia*, **2020**, 394, 2000063	0.8	
280	Challenges in developing polymer flocculants to improve bitumen quality in non-aqueous extraction processes: an experimental study. *Petroleum Science*, **2020**, 17, 811-821	4.4	11
279	Amylopectin-graft-polyacrylamide for the flocculation and dewatering of oil sands tailings. *Minerals Engineering*, **2020**, 148, 106196	4.9	5

278	Fabrication of Highly Permeable and Thermally Stable Reverse Osmosis Thin Film Composite Polyamide Membranes. *ACS Applied Materials & Interfaces*, **2020**, 12, 2916-2925	9.5	25
277	Polymerization Kinetics and Microstructure of Ethylene/1-Hexene Copolymers Made with Dual Metallocenes. *Macromolecular Reaction Engineering*, **2020**, 14, 1900032	1.5	4
276	Thermally stable thin film composite polymeric membranes for water treatment: A review. *Journal of Cleaner Production*, **2020**, 250, 119447	10.3	40
275	Established Leaders in Chemical Engineering Series. *Canadian Journal of Chemical Engineering*, **2020**, 98, 4-4	2.3	0
274	Nanodiamond-Enabled Thin-Film Nanocomposite Polyamide Membranes for High-Temperature Water Treatment. *ACS Applied Materials & Interfaces*, **2020**, 12, 53274-53285	9.5	16
273	Evaluation of adsorption capacities of nanocomposites prepared from bean starch and montmorillonite. *Sustainable Chemistry and Pharmacy*, **2020**, 17, 100292	3.9	8
272	Using Artificial Intelligence Techniques to Design Ethylene/1-Olefin Copolymers. *Macromolecular Theory and Simulations*, **2020**, 29, 2000048	1.5	1
271	Dynamic Monte Carlo Simulation for Chain-Shuttling Polymerization of Olefin Block Copolymers in Continuous Stirred-Tank Reactor. *Macromolecular Reaction Engineering*, **2020**, 14, 2000030	1.5	2
270	Mapping the Structure–Property Space of Bimodal Polyethylene Using Response Surface Methods. Part 2: Experimental Investigation of Polymer Microstructure and Yield Estimations. *Macromolecular Reaction Engineering*, **2020**, 14, 2000023	1.5	1
269	Zn-assisted cooperative effect for copolymers made by heterodinuclear Fe–Ni catalyst. *ChemCatChem*, **2020**, 12, 5809-5818	5.2	6
268	Water soluble polymeric nanofibres for rapid flocculation and enhanced dewatering of mature fine tailings. *Canadian Journal of Chemical Engineering*, **2020**, 98, 96-103	2.3	3
267	Amorphous to high crystalline PE made by mono and dinuclear Fe-based catalysts. *European Polymer Journal*, **2019**, 119, 229-238	5.2	19
266	Polymerization Kinetics and the Effect of Reactor Residence Time on Polymer Microstructure **2019**, 115-153		1
265	Ethylene/1-hexene polymerization with bis(cyclopentadienyl) hafnium(IV) dichloride: A fundamental polymerization kinetics model. *Journal of Catalysis*, **2019**, 375, 140-154	7.3	4
264	Data-Driven Estimation of Significant Kinetic Parameters Applied to the Synthesis of Polyolefins. *Processes*, **2019**, 7, 309	2.9	3
263	Cooperative effect through different bridges in nickel catalysts for polymerization of ethylene. *Applied Organometallic Chemistry*, **2019**, 33, e4929	3.1	12
262	Monitoring tailings flocculation performance using hyperspectral imagery. *Canadian Journal of Chemical Engineering*, **2019**, 97, 2465-2471	2.3	2
261	Water Soluble Polymer Flocculants: Synthesis, Characterization, and Performance Assessment. *Macromolecular Materials and Engineering*, **2019**, 304, 1800526	3.9	68

260	Simultaneous Deconvolution of the Bivariate Molecular Weight and Chemical Composition Distribution of Ethylene/1-Hexene Copolymers. *Macromolecular Chemistry and Physics*, **2019**, 220, 1800522	2.6	4
259	Aggregate structures formed by hyperbranched functionalized polyethylene (HBfPE) treatment of oil sands tailings. *Canadian Journal of Chemical Engineering*, **2019**, 97, 99-102	2.3	4
258	Development and application of an amylopectin-graft-poly(methyl acrylate) solidifier for rapid and efficient containment and recovery of heavy oil spills in aqueous environments. *Chemosphere*, **2019**, 236, 124352	8.4	6
257	Removal of Heavy Metal Water Pollutants (Co and Ni) Using Polyacrylamide/Sodium Montmorillonite (PAM/Na-MMT) Nanocomposites. *ACS Omega*, **2019**, 4, 10834-10844	3.9	35
256	Multifunctional CO2-switchable polymers for the flocculation of oil sands tailings. *Journal of Applied Polymer Science*, **2019**, 136, 47578	2.9	3
255	Advanced Polymer Flocculants for Solid-Liquid Separation in Oil Sands Tailings. *Macromolecular Rapid Communications*, **2019**, 40, e1800644	4.8	11
254	Comparing Long-Chain Branching Mechanisms for Ethylene Polymerization with Metallocenes and Other Single-Site Catalysts: What Simulated Microstructures Can Teach Us. *Macromolecular Reaction Engineering*, **2019**, 13, 1800059	1.5	1
253	6th ICPC International Conference on Polyolefin Characterization. *Macromolecular Symposia*, **2018**, 377, 1870004	0.8	
252	Mathematical Modeling of Multiple High Temperature Thermal Gradient Interaction Chromatography (m-HT-TGIC) for Ethylene/1-Olefin Copolymer Blends. *Macromolecular Symposia*, **2018**, 377, 1700061	0.8	3
251	Enhanced Flocculation of Oil Sands Mature Fine Tailings Using Hydrophobically Modified Polyacrylamide Copolymers. *Global Challenges*, **2018**, 2, 1700135	4.3	14
250	Mapping the Structure–Property Space of Bimodal Polyethylenes Using Response Surface Methods. Part 1: Digital Data Investigation. *Macromolecular Reaction Engineering*, **2018**, 12, 1700066	1.5	5
249	Monte Carlo Simulation of Olefin Block Copolymers: Bivariate Distribution of Molecular Weight and Chemical Composition. *Macromolecular Symposia*, **2018**, 377, 1700060	0.8	3
248	Synthesis of Metallocene Catalyzed Ethylene 1,7-Octadiene Copolymer: Effect of Copolymerization on Polymer Properties. *Macromolecular Research*, **2018**, 26, 295-304	1.9	2
247	Polyolefins Made with Dual Metallocene Catalysts: How Microstructure Affects Polymer Properties. *Macromolecular Chemistry and Physics*, **2018**, 219, 1700551	2.6	6
246	A Methodology for Estimating Kinetic Parameters and Reactivity Ratios of Multi-site Type Catalysts Using Polymerization, Fractionation, and Spectroscopic Techniques. *Macromolecular Reaction Engineering*, **2018**, 12, 1700056	1.5	17
245	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	3.6	16
244	Dewatering of Oil Sands Tailings with Novel Chitosan-Based Flocculants. *Energy & Fuels*, **2018**, 32, 5271-5278	4.1	16
243	A Monte Carlo Method to Quantify the Effect of Reactor Residence Time Distribution on Polyolefins Made with Heterogeneous Catalysts: Part II. Catalyst/Polymer Particle Size Distribution Effects. *Macromolecular Reaction Engineering*, **2018**, 12, 1700031	1.5	7

242	Monitoring polymer flocculation in oil sands tailings: A population balance model approach. *Chemical Engineering Journal*, **2018**, 346, 447-457	14.7	47
241	Structure Modifications of Hydrolytically-Degradable Polymer Flocculant for Improved Water Recovery from Mature Fine Tailings. *Industrial & Engineering Chemistry Research*, **2018**, 57, 10809-10822	3.9	12
240	Dynamic Monte Carlo Simulation of Olefin Block Copolymers (OBCs) Produced via Chain-Shuttling Polymerization: Effect of Kinetic Rate Constants on Chain Microstructure. *Macromolecular Reaction Engineering*, **2018**, 12, 1800021	1.5	8
239	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. *Chemosphere*, **2018**, 208, 263-272	8.4	18
238	Application of solidifiers for oil spill containment: A review. *Chemosphere*, **2018**, 194, 837-846	8.4	56
237	A novel hydrophobically-modified polyelectrolyte for enhanced dewatering of clay suspension. *Chemosphere*, **2018**, 194, 422-431	8.4	23
236	Synthesis of poly(□-olefins) containing rare short-chain branches by dinuclear Ni-based catalysts. *New Journal of Chemistry*, **2018**, 42, 18288-18296	3.6	11
235	A Monte Carlo Method to Quantify the Effect of Reactor Residence Time Distribution on Polyolefins Made with Heterogeneous Catalysts: Part III□Particle Composition Distribution Effects. *Macromolecular Reaction Engineering*, **2018**, 12, 1800051	1.5	3
234	A Monte Carlo Method to Quantify the Effect of Reactor Residence Time Distribution on Polyolefins Made with Heterogeneous Catalysts: Part IV□Intraparticle Transfer Resistance Effects. *Macromolecular Reaction Engineering*, **2018**, 12, 1800054	1.5	3
233	Atypical Multiple Site Behavior of Hafnocene Catalysts in Ethylene/1-Hexene Copolymerization Using Trioctylaluminum and Borate. *Macromolecules*, **2018**, 51, 7061-7076	5.5	10
232	A Monte Carlo Method to Quantify the Effect of Reactor Residence Time Distribution on Polyolefins Made with Heterogeneous Catalysts: Part II - Packing Density Effects. *Macromolecular Reaction Engineering*, **2018**, 12, 1800002	1.5	3
231	Polymer reaction engineering tools to design multifunctional polymer flocculants. *Chemosphere*, **2018**, 210, 156-165	8.4	7
230	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	3.9	20
229	Flocculation of oil sands tailings by hyperbranched functionalized polyethylenes (HB f PE). *Minerals Engineering*, **2017**, 108, 71-82	4.9	31
228	Understanding the Microstructure of Living Ethylene/1-Octene Block Copolymers with Dynamic Monte Carlo Simulation. *Macromolecular Theory and Simulations*, **2017**, 26, 1700012	1.5	3
227	Starch-based composites using mature fine tailings as fillers. *Canadian Journal of Chemical Engineering*, **2017**, 95, 1901-1908	2.3	5
226	On the Robustness of Forward and Inverse Artificial Neural Networks for the Simulation of Ethylene/1-Butene Copolymerization. *Macromolecular Theory and Simulations*, **2017**, 26, 1700042	1.5	7
225	Dewatering Oil Sands Tailings with Degradable Polymer Flocculants. *ACS Applied Materials & Interfaces*, **2017**, 9, 36290-36300	9.5	26

224	Investigation on the flocculation of oil sands mature fine tailings with alkoxysilanes. *Minerals Engineering*, **2017**, 111, 90-99	4.9	13
223	Copolymerization of Ethylene with 1,9-Decadiene: Part II. Prediction of Molecular Weight Distributions. *Macromolecular Theory and Simulations*, **2017**, 26, 1700040	1.5	5
222	Joint Effect of Poly(ethyhlene-co-1-octene) Chain Length and 1-Octene Fraction on High-Temperature Thermal Gradient Interaction Chromatography. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600332	2.6	5
221	Molecular Weight Distribution of Ethylene/1-Olefin Copolymers: Generalized Bimodality Criterion. *Macromolecular Theory and Simulations*, **2017**, 26, 1600060	1.5	3
220	Ethylene Polymerization with a Hafnocene Dichloride Catalyst Using Trioctyl Aluminum and Borate: Polymerization Kinetics and Polymer Characterization. *Macromolecular Reaction Engineering*, **2017**, 11, 1600044	1.5	4
219	Copolymerization of Ethylene with 1,9-Decadiene: Part I. Prediction of Average Molecular Weights and Long-Chain Branching Frequencies. *Macromolecular Theory and Simulations*, **2017**, 26, 1600059	1.5	7
218	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	1.5	10
217	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	1.5	14
216	Comparison of Different Dynamic Monte Carlo Methods for the Simulation of Olefin Polymerization. *Macromolecular Symposia*, **2016**, 360, 160-178	0.8	9
215	Quantifying the Copolymerization Kinetics of Ethylene and 1-Octene Catalyzed with rac-Et(Ind)2ZrCl2 in a Solution Reactor. *Macromolecules*, **2016**, 49, 2448-2457	5.5	6
214	Effect of Prepolymerization on the Kinetics of Ethylene Polymerization and Ethylene/1-Hexene Copolymerization with a Ziegler–Natta Catalyst in Slurry Reactors. *Macromolecular Reaction Engineering*, **2016**, 10, 463-478	1.5	6
213	Estimation of Apparent Kinetic Constants of Individual Site Types for the Polymerization of Ethylene and α-olefins with Ziegler–Natta Catalysts. *Macromolecular Reaction Engineering*, **2016**, 10, 551-566	1.5	12
212	Can We Make Better Polyurethane Composite Foams with Oil Sands Mature Fine Tailing?. *Macromolecular Materials and Engineering*, **2016**, 301, 383-389	3.9	6
211	Cationic Hydrolytically Degradable Flocculants with Enhanced Water Recovery for Oil Sands Tailings Remediation. *Macromolecular Materials and Engineering*, **2016**, 301, 1248-1254	3.9	22
210	Understanding the Formation of Linear Olefin Block Copolymers with Dynamic Monte Carlo Simulation. *Macromolecular Reaction Engineering*, **2016**, 10, 535-550	1.5	6
209	In-situ production of polyethylene/cellulose nanocrystal composites. *Canadian Journal of Chemical Engineering*, **2016**, 94, 2107-2113	2.3	10
208	Using acrylamide/propylene oxide copolymers to dewater and densify mature fine tailings. *Minerals Engineering*, **2016**, 95, 29-39	4.9	32
207	Effect of Solvent Type on High-Temperature Thermal Gradient Interaction Chromatography of Polyethylene and Ethylene–1-Octene Copolymers. *Macromolecular Chemistry and Physics*, **2015**, 216, 38-48	2.6	5

206	Mathematical Modeling of Crystallization Elution Fractionation of Ethylene/1-Octene Copolymers. *Macromolecular Chemistry and Physics*, **2015**, 216, 621-635	2.6	4
205	When Polymer Reaction Engineers Play Dice: Applications of Monte Carlo Models in PRE. *Macromolecular Reaction Engineering*, **2015**, 9, 141-185	1.5	73
204	Water-soluble polymers for oil sands tailing treatment: A Review. *Canadian Journal of Chemical Engineering*, **2015**, 93, 888-904	2.3	75
203	High Temperature Thermal Gradient Interaction Chromatography (HT-TGIC) of Ethylene/1-Octene Copolymers: Model Development and Validation. *Macromolecular Symposia*, **2015**, 356, 54-60	0.8	4
202	High Temperature Thermal Gradient Interaction Chromatography (HT-TGIC) for Blends of Ethylene/1-Octene Copolymers: A Mathematical Model. *Macromolecular Symposia*, **2015**, 354, 361-366	0.8	3
201	Effect of Column Type on Polyolefin Fractionation by High-Temperature Thermal Gradient Interaction Chromatography. *Macromolecular Symposia*, **2015**, 356, 10-18	0.8	3
200	The Influence of Tailings Composition on Flocculation. *Canadian Journal of Chemical Engineering*, **2015**, 93, 1514-1523	2.3	39
199	Characterization of Ethylene/α-Olefin Copolymers Using High-Temperature Thermal Gradient Interaction Chromatography. *Macromolecular Chemistry and Physics*, **2014**, 215, 465-475	2.6	17
198	The Use of Instantaneous Distributions in Polymerization Reaction Engineering. *Macromolecular Reaction Engineering*, **2014**, 8, 235-259	1.5	28
197	Fractionation of Ethylene/1-Octene Copolymers by High-Temperature Thermal Gradient Interaction Chromatography. *Industrial & Engineering Chemistry Research*, **2014**, 53, 9228-9235	3.9	19
196	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	2.4	12
195	Effect of Polymerization Conditions on Thermal and Mechanical Properties of Ethylene/1-Butene Copolymer Made with Ziegler-Natta Catalysts. *International Journal of Polymer Science*, **2014**, 2014, 1-10	2.4	6
194	Effect of long chain branching on the properties of polyethylene synthesized via metallocene catalysis. *Polymer Science - Series B*, **2014**, 56, 707-720	0.8	4
193	Effect of Varying Hydrogen Concentration, External Donor Concentration, and Temperature on Propylene Polymerization Kinetics and Microstructure of Polypropylene Made with a 4th Generation Ziegler–Natta Catalyst. *Macromolecular Reaction Engineering*, **2014**, 8, 723-735	1.5	7
192	Chemical Composition Distribution and Temperature Rising Elution Fractionation of Linear Olefin Block Copolymers. *Macromolecular Symposia*, **2013**, 330, 123-131	0.8	6
191	Effect of Hydrogen and External Donor on the Microstructure of Polypropylene Made with a 4th Generation Ziegler–Natta Catalyst. *Macromolecular Reaction Engineering*, **2013**, 7, 135-145	1.5	13
190	In-Depth Investigation of Ethylene Solution Polymerization Kinetics With rac-Et(Ind)2ZrCl2/MAO. *Macromolecular Chemistry and Physics*, **2013**, 214, 246-262	2.6	6
189	Coordination Polymerization **2013**, 85-104		2

188	Analysis of Slurry-Phase Co-Polymerization of Ethylene and 1-Butene by Ziegler-Natta Catalysts Part 1: Experimental Activity Profiles. *Macromolecular Reaction Engineering*, **2013**, 7, 350-361	1.5	4
187	Direct production of ultra-high molecular weight polyethylene with oriented crystalline microstructures. *Journal of Molecular Catalysis A*, **2013**, 366, 74-83		21
186	Ethylene Polymerization and Ethylene/1-Octene Copolymerization with rac-Dimethylsilylbis(indenyl)hafnium Dimethyl Using Trioctyl Aluminum and Borate: A Polymerization Kinetics Investigation. *Macromolecules*, **2013**, 46, 1312-1324	5.5	13
185	Effect of Operating Conditions on Dynamic Crystallization of Ethylene/1-Octene Copolymers. *Macromolecular Chemistry and Physics*, **2013**, 214, 2591-2601	2.6	5
184	Heterogeneous Ethylene and Alpha-Olefin Copolymerization Using Zirconocene Aluminohydride Complexes. *Macromolecular Symposia*, **2013**, 325-326, 71-76	0.8	3
183	Mathematical Model of Dynamic Crystallization of Ethylene/1-Octene Copolymers. *Macromolecular Symposia*, **2013**, 330, 132-141	0.8	5
182	Polyolefin Microstructural Characterization **2012**, 15-52		2
181	Polymerization Catalysis and Mechanism **2012**, 53-86		
180	Polyolefin Reactors and Processes **2012**, 87-129		3
179	Polymerization Kinetics **2012**, 131-185		1
178	Polyolefin Microstructural Modeling **2012**, 187-269		2
177	Developing Models for Industrial Reactors **2012**, 311-323		
176	Evaluating the Effects of Precious Metal Distribution along a Monolith-Supported Catalyst for CO oxidation. *Industrial & Engineering Chemistry Research*, **2012**, 51, 6672-6679	3.9	9
175	Ethylene Homopolymerization Kinetics with a Constrained Geometry Catalyst in a Solution Reactor. *Macromolecules*, **2012**, 45, 1777-1791	5.5	24
174	Introduction to Polyolefins **2012**, 1-13		2
173	Mathematical Modeling of Temperature Rising Elution Fractionation (TREF) of Polyethylene and Ethylene/1-Olefin Copolymers. *Macromolecular Chemistry and Physics*, **2012**, 213, 1892-1906	2.6	12
172	Particle Growth and Single Particle Modeling **2012**, 271-309		4
171	Effect of Chain Microstructure and Cooling Rate on Crystaf Calibration Curves: An Experimental Study. *Macromolecular Symposia*, **2012**, 312, 191-196	0.8	

170	Monte Carlo Simulation of the Microstructure of Linear Olefin Block Copolymers. *Macromolecular Symposia*, **2012**, 312, 167-173	0.8	15
169	Crystallization Elution Fractionation of LLDPEs Made with Metallocene Catalysts. *Macromolecular Symposia*, **2012**, 312, 43-50	0.8	9
168	Effect of Hydrogen, Electron Donor, and Polymerization Temperature on Poly(propylene) Microstructure. *Macromolecular Symposia*, **2012**, 312, 72-80	0.8	5
167	The Integrated Deconvolution Estimation Model: Effect of Inter-Laboratory 13C NMR Analysis on IDEM Performance. *Macromolecular Reaction Engineering*, **2012**, 6, 189-199	1.5	3
166	Effect of Hydrogen and External Donor on Propylene Polymerization Kinetics with a 4th-Generation Ziegler-Natta Catalyst. *Macromolecular Reaction Engineering*, **2012**, 6, 265-274	1.5	20
165	Supported single-site catalysts for slurry and gas-phase olefin polymerisation. *Canadian Journal of Chemical Engineering*, **2012**, 90, 646-671	2.3	42
164	Synthesis of Polyolefins with Combined Single-Site Catalysts. *Macromolecular Symposia*, **2012**, 313-314, 8-18	0.8	10
163	**2012**,		114
162	Mathematical Modeling of the Microstructure of Poly(propylene) Made with Ziegler-Natta Catalysts in the Presence of Electron Donors. *Macromolecular Reaction Engineering*, **2011**, 5, 96-116	1.5	11
161	Bimodality Criterion for the Chemical Composition Distribution of Ethylene/1-Olefin Copolymers: Theoretical Development and Experimental Validation. *Macromolecular Reaction Engineering*, **2011**, 5, 198-210	1.5	10
160	A Polymerization Kinetics Comparison between a Metallocene Catalyst Activated by Tetrakis(pentafluorophenyl) Borate and MAO for the Polymerization of Ethylene in a Semi-batch Solution Reactor. *Macromolecular Reaction Engineering*, **2011**, 5, 418-430	1.5	12
159	Simultaneous Deconvolution of Molecular Weight and Chemical Composition Distribution of Ethylene/1-Olefin Copolymers: Strategy Validation and Comparison. *Macromolecular Reaction Engineering*, **2011**, 5, 549-562	1.5	16
158	The Integrated Deconvolution Estimation Model: Estimation of Reactivity Ratios per Site Type for Ethylene/1-Butene Copolymers Made with a Heterogeneous Ziegler-Natta Catalyst. *Macromolecular Reaction Engineering*, **2011**, 5, 587-598	1.5	12
157	Cocrystallization of ethylene/1-octene copolymer blends during crystallization analysis fractionation and crystallization elution fractionation. *Journal of Polymer Science, Part B: Polymer Physics*, **2011**, 49, 678-684	2.6	16
156	Synthesis of Ethylene/Acrylonitrile Composite Elastomers with Nanosized Polyacrylonitrile Domains Using □Dimine-[N,N] Nickel Dichloride/EASC. *Macromolecular Chemistry and Physics*, **2011**, 212, 715-722	2.6	1
155	Polyethylene/Clay Nanocomposites Made with Metallocenes Supported on Different Organoclays. *Macromolecular Chemistry and Physics*, **2011**, 212, 216-228	2.6	15
154	Ethylene/1-Hexene Copolymers Produced with MAO/(nBuCp)2ZrCl2 Supported on SBA-15 Materials with Different Pore Sizes. *Macromolecular Chemistry and Physics*, **2011**, 212, 1590-1599	2.6	21
153	An Efficient In Situ Polymerization Method for the Production of Polyethylene/Clay Nanocomposites: Effect of Polymerization Conditions on Particle Morphology. *Macromolecular Chemistry and Physics*, **2011**, 212, 2017-2028	2.6	6

152	Production of Ethylene/α-Olefin/1,9-Decadiene Copolymers with Complex Microstructures Using a Two-Stage Polymerization Process. *Macromolecules*, **2011**, 44, 7926-7939	5.5	10
151	Polyolefin–Clay Nanocomposites by In-situ Polymerization **2011**, 53-88		1
150	Particle Growth During the Polymerisation of Olefins on Supported Catalysts, 1 – Nascent Polymer Structures. *Macromolecular Reaction Engineering*, **2010**, 4, 40-64	1.5	95
149	The Integrated Deconvolution Estimation Model: A Parameter Estimation Method for Ethylene/α-Olefin Copolymers Made with Multiple-Site Catalysts. *Macromolecular Reaction Engineering*, **2010**, 4, 578-590	1.5	10
148	Preparation of Polyethylene/Montmorillonite Nanocomposites Through in situ Polymerization Using a Montmorillonite-Supported Nickel Diimine Catalyst. *Macromolecular Chemistry and Physics*, **2010**, 211, 1026-1034	2.6	9
147	Ethylene slurry polymerization using nickel diimine catalysts covalently-attached onto MgCl2-based supports. *Polymer*, **2010**, 51, 2271-2276	3.9	17
146	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	3.9	24
145	Synthesis of Supported Nickel Diimine Catalysts for Ethylene Slurry Polymerization. *Macromolecular Chemistry and Physics*, **2009**, 210, 1979-1988	2.6	20
144	Simultaneous deconvolution of the bivariate distribution of molecular weight and chemical composition of polyolefins made with ziegler-natta catalysts. *Macromolecular Rapid Communications*, **2009**, 30, 384-93	4.8	29
143	Dynamic Monte Carlo Simulation of ATRP in a Batch Reactor. *Macromolecular Theory and Simulations*, **2009**, 18, 307-316	1.5	35
142	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	2.6	14
141	Gradient Copolymers by ATRP in Semibatch Reactors: Dynamic Monte Carlo Simulation. *Macromolecular Reaction Engineering*, **2009**, 3, 148-159	1.5	35
140	Morphology and Thermal Characteristics of Polyethylene Nanocomposites Made Using Montmorillonite-Supported Cp2ZrCl2 and Ni-Diimine Precatalysts. *Macromolecular Reaction Engineering*, **2009**, 3, 543-555	1.5	1
139	CRYSTAF Analysis of Polyethylene Synthesized with Phillips Catalyst. *Macromolecular Symposia*, **2009**, 285, 74-80	0.8	5
138	Influence of Metallocene Type on the Order of Ethylene Polymerization and Catalyst Deactivation Rate in a Solution Reactor. *Macromolecular Symposia*, **2009**, 285, 101-114	0.8	7
137	Simulation of Crystallization Analysis Fractionation (Crystaf) of Linear Olefin Block Copolymers. *Macromolecular Symposia*, **2009**, 282, 205-215	0.8	7
136	Simultaneous Deconvolution of Molecular Weight Distribution and Chemical Composition Distribution of Ethylene/1-Olefin Copolymers Synthesized with Multiple-Site-Type Catalytic Systems. *Macromolecular Symposia*, **2009**, 282, 167-174	0.8	16
135	Simulation of Propylene Polymerization in Industrial Reactors Using Ziegler-Natta Catalysts in the Presence of Electron Donors. *Macromolecular Symposia*, **2009**, 285, 8-22	0.8	7

134	Gas-Phase Polymerization with Transition Metal Catalysts Supported on Montmorillonite A Particle Morphological Study. *Macromolecular Symposia*, **2009**, 285, 64-73	0.8	4
133	Simultaneous Deconvolution of the Molecular Weight and Chemical Composition Distribution of Polyolefins Made with Ziegler-Natta Catalysts. *Macromolecular Symposia*, **2009**, 285, 81-89	0.8	15
132	The First International Conference on Polyolefin Characterization. *Macromolecular Materials and Engineering*, **2008**, 293, 244-245	3.9	2
131	Simulation of Polymerization and Long Chain Branch Formation in a Semi-Batch Reactor Using Two Single-Site Catalysts. *Macromolecular Reaction Engineering*, **2008**, 2, 37-57	1.5	8
130	Chain Length Distributions of Polyolefins Made in Stopped-Flow Reactors for Non-Instantaneous Site Activation. *Macromolecular Reaction Engineering*, **2008**, 2, 115-125	1.5	7
129	Production of Long-Chain Branched Polyolefins with Two Single-Site Catalysts: Comparing CSTR and Semi-Batch Performance. *Macromolecular Reaction Engineering*, **2008**, 2, 529-550	1.5	14
128	Synthesis of Low Density Poly(ethylene) Using Nickel Iminophosphonamide Complexes. *Macromolecules*, **2007**, 40, 2993-3004	5.5	35
127	Atom transfer radical polymerization (ATRP) of styrene and acrylonitrile with monofunctional and bifunctional initiators. *Polymer*, **2007**, 48, 1954-1961	3.9	29
126	A kinetic study of metallocene-catalyzed ethylene polymerization using different aluminoxane cocatalysts. *Journal of Polymer Science Part A*, **2007**, 45, 1677-1690	2.5	12
125	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	26
124	Mathematical modeling of crystallization analysis fractionation of ethylene/1-hexene copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 1010-1017	2.6	23
123	Chain Length Distributions of Polyolefins Made with Coordination Catalysts at Very Short Polymerization Times A Analytical Solution and Monte Carlo Simulation. *Macromolecular Reaction Engineering*, **2007**, 1, 53-67	1.5	25
122	Dynamic Monte Carlo Simulation of ATRP with Bifunctional Initiators. *Macromolecular Reaction Engineering*, **2007**, 1, 95-105	1.5	29
121	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	1.5	22
120	Mathematical Modeling of Atom-Transfer Radical Copolymerization. *Macromolecular Reaction Engineering*, **2007**, 1, 468-479	1.5	23
119	Steady State Simulation of Ethylene Polymerization Using Multiple-Site Coordination Catalysts. *Macromolecular Symposia*, **2007**, 259, 110-115	0.8	1
118	A Mathematical Model for the Kinetics of Crystallization in Crystaf. *Macromolecular Symposia*, **2007**, 257, 94-102	0.8	20
117	An Overview of Important Microstructural Distributions for Polyolefin Analysis. *Macromolecular Symposia*, **2007**, 257, 1-12	0.8	45

116	Characterization of Ethylene-1-Hexene Copolymers Made with Supported Metallocene Catalysts: Influence of Support Type. *Macromolecular Symposia*, **2007**, 257, 103-111	0.8	27
115	Dynamic Monte Carlo Simulation of Olefin Polymerization in Stopped-Flow Reactors. *Macromolecular Symposia*, **2007**, 260, 189-196	0.8	6
114	Modeling of Atom Transfer Radical Polymerization with Bifunctional Initiators: Diffusion Effects and Case Studies. *Macromolecular Chemistry and Physics*, **2006**, 207, 469-483	2.6	21
113	Ethylene and Propylene Polymerization Using In Situ Supported Me2Si(Ind)2ZrCl2 Catalyst: Experimental and Theoretical Study. *Macromolecular Materials and Engineering*, **2006**, 291, 279-287	3.9	9
112	Dynamic Monte Carlo Simulation of Atom-Transfer Radical Polymerization. *Macromolecular Materials and Engineering*, **2006**, 291, 993-1003	3.9	51
111	Mathematical Modeling of Atom-Transfer Radical Polymerization Using Bifunctional Initiators. *Macromolecular Theory and Simulations*, **2006**, 15, 198-214	1.5	18
110	A Single-Gallery Model for the In Situ Production of Polyethylene-Clay Nanocomposites. *Macromolecular Symposia*, **2006**, 243, 277-286	0.8	1
109	Dynamic Monte Carlo Simulation of Graft Copolymers Made with ATRP and Metallocene Catalysts. *Macromolecular Symposia*, **2006**, 243, 83-90	0.8	11
108	Mathematical modeling of crystallization analysis fractionation (Crystaf) of polyethylene. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 2749-2759	2.6	22
107	Monte Carlo Simulation of Long-Chain Branched Polyolefins Made with Dual Catalysts:□A Classification of Chain Structures in Topological Branching Families. *Industrial & Engineering Chemistry Research*, **2005**, 44, 2461-2468	3.9	13
106	Fractionation of Semicrystalline Polymers by Crystallization Analysis Fractionationand Temperature Rising Elution Fractionation. *Advances in Polymer Science*, **2005**, 1-54	1.3	116
105	Effects of the type and concentration of alkylaluminum cocatalysts on the molar mass of polypropylene made with in situ supported metallocene catalysts. *Journal of Applied Polymer Science*, **2005**, 95, 1050-1055	2.9	14
104	Steady-State Model for Olefin Polymerization With a Two-Site Vanadium Catalyst in a Continuous Stirred-Tank Reactor. *Macromolecular Materials and Engineering*, **2005**, 290, 256-271	3.9	6
103	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	3.9	17
102	Polyolefin Reaction Engineering □An Overview of Recent Developments. *Macromolecular Materials and Engineering*, **2005**, 290, 507-510	3.9	12
101	Crystallization analysis fractionation. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1557-1570	2.5	52
100	Crystallization analysis fractionation of ethene/1-hexene copolymers made with the MAO-activated dual-site (1,2,4-Me3Cp)2ZrCl2 and (Me5Cp)2ZrCl2 system. *Polymer*, **2004**, 45, 7853-7861	3.9	9
99	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	13

98	Cocrystallization of Blends of Ethylene/1-Olefin Copolymers: An Investigation with Crystallization Analysis Fractionation (Crystaf). *Macromolecular Chemistry and Physics*, **2004**, 205, 771-777	2.6	34
97	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	2.6	13
96	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	3.9	34
95	Analysis of the chemical composition distribution of ethylene/□-olefin copolymers by solution differential scanning calorimetry: an alternative technique to Crystaf. *Polymer*, **2004**, 45, 4787-4799	3.9	31
94	Polymerization reaction engineering: past, present and future. *Macromolecular Symposia*, **2004**, 206, 1-14	0.8	17
93	Chemical composition distribution of multicomponent copolymer chains. *Macromolecular Symposia*, **2004**, 206, 69-78	0.8	5
92	An experimental and numerical study on crystallization analysis fractionation (Crystaf). *Macromolecular Symposia*, **2004**, 206, 57-68	0.8	4
91	Molecular Weight and Long Chain Branch Distributions of Branch-Block Olefinic Thermoplastic Elastomers. *Macromolecular Theory and Simulations*, **2003**, 12, 386-400	1.5	9
90	Evolution of Molecular Weight and Long Chain Branch Distributions in Olefin□Diene Copolymerization. *Macromolecular Theory and Simulations*, **2003**, 12, 582-592	1.5	13
89	Comparing Strategies for the Synthesis of Polyolefinic Thermoplastic Elastomers via Macromonomer Incorporation. *Macromolecular Theory and Simulations*, **2003**, 12, 142-152	1.5	9
88	Chemical Composition Distribution of Multicomponent Copolymers. *Macromolecular Theory and Simulations*, **2003**, 12, 229-236	1.5	17
87	HDPE/LLDPE reactor blends with bimodal microstructures□Part II: rheological properties. *Polymer*, **2003**, 44, 177-185	3.9	45
86	Polyethylene□clay hybrid nanocomposites: in situ polymerization using bifunctional organic modifiers. *Polymer*, **2003**, 44, 5317-5321	3.9	77
85	Dimerization and polymerization of ethylene catalyzed by nickel complexes bearing multidentate amino-functionalized indenyl ligands. *Journal of Molecular Catalysis A*, **2003**, 193, 51-58		27
84	Polypropylene obtained with in situ supported metallocene catalysts. *Journal of Molecular Catalysis A*, **2003**, 202, 127-134		13
83	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	2.6	44
82	Effect of molecular weight and average comonomer content on the crystallization analysis fractionation (Crystaf) of ethylene □-olefin copolymers. *Polymer*, **2003**, 44, 2393-2401	3.9	42
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	5.5	23

80	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	1.5	21
79	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	1.5	31
78	Distribution of the Longest Ethylene Sequence in Ethylene/α-Olefin Copolymers Synthesized with Single-Site-Type Catalysts. *Macromolecular Theory and Simulations*, **2002**, 11, 326	1.5	33
77	Long-Chain Branching with Metallocene Catalysts: Is a Purely Kinetic Mechanism for Terminal Branching Sufficient?. *Macromolecular Theory and Simulations*, **2002**, 11, 939-943	1.5	11
76	Gas-phase polymerization of ethylene using supported metallocene catalysts: Study of polymerization conditions. *Macromolecular Chemistry and Physics*, **2002**, 203, 1895-1905	2.6	14
75	Ethylene/1-octene copolymerization studies with in 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	41
74	Round-robin experiment in high-temperature gel permeation chromatography. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 905-921	2.6	22
73	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	2.6	57
72	HDPE/LLDPE reactor blends with bimodal microstructures. Part I: mechanical properties. *Polymer*, **2002**, 43, 7345-7365	3.9	38
71	Characterization and Modeling of Metallocene-Based Branch-Block Copolymers. *Macromolecules*, **2002**, 35, 9586-9594	5.5	29
70	Production of polyolefins with controlled long chain branching and molecular weight distributions using mixed metallocene catalysts. *Macromolecular Symposia*, **2001**, 173, 179-194	0.8	24
69	Kinetic investigation of ethylene polymerization catalyzed by nickel-diimine catalysts. *Journal of Molecular Catalysis A*, **2001**, 165, 55-66		22
68	Crystallizability of ethylene homopolymers by crystallization analysis fractionation. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 1616-1628	2.6	35
67	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	2.9	41
66	Polyethylene Made with In Situ Supported Ni(II) Diimine/SMAO: Replication Phenomenon and Effect of Polymerization Conditions on Polymer Microstructure and Morphology. *Macromolecular Chemistry and Physics*, **2001**, 202, 3237-3247	2.6	45
65	Single particle modelling for olefin polymerization on supported catalysts: A review and proposals for future developments. *Chemical Engineering Science*, **2001**, 56, 3931-3949	4.4	196
64	Mathematical modelling of the microstructure of polyolefins made by coordination polymerization: a review. *Chemical Engineering Science*, **2001**, 56, 4131-4153	4.4	125
63	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	4.4	24

62	SIMULATION OF BRANCHING DISTRIBUTION OF POLYETHYLENE MADE WITH Ni-DIIMINE CATALYSTS. AN ELEGANT SOLUTION USING POPULATION BALANCES. *Polymer-Plastics Technology and Engineering*, **2001**, 9, 199-223		9
61	Observations on HDPE Characterization with a Microcalorimeter as a Complementary Tool to TREF and CRYSTAF. *Polymer-Plastics Technology and Engineering*, **2000**, 8, 159-165		3
60	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	2.6	43
59	Effect of hydrogen on ethylene polymerization using in-situ supported metallocene catalysts. *Macromolecular Chemistry and Physics*, **2000**, 201, 552-557	2.6	44
58	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	2.6	53
57	Polymerization mechanism for in situ supported metallocene catalysts. *Journal of Polymer Science Part A*, **2000**, 38, 462-468	2.5	53
56	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	57
55	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	27
54	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	48
53	Effect of experimental conditions on ethylene polymerization with in-situ-supported metallocene catalyst. *Journal of Polymer Science Part A*, **2000**, 38, 1803-1810	2.5	26
52	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	2.6	49
51	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	2.6	23
50	Monte-Carlo simulation of branching distribution in Ni-diimine catalyzed polyethylene. *AICHE Journal*, **2000**, 46, 1234-1240	3.6	23
49	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	5.2	30
48	Mathematical Modelling and Control of Chemical Composition Distribution of Ethylene/□Olefin Copolymers Made with Single and Combined Metallocene Catalysts. *Polymer-Plastics Technology and Engineering*, **2000**, 8, 241-270		10
47	Copolymerization of ethylene and □-olefins with combined metallocene catalysts. II. Mathematical modeling of polymerization with single metallocene catalysts **2000**, 38, 1417		1
46	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	2.9	48
45	Polyolefin analysis by single-step crystallization fractionation. *Journal of Polymer Science, Part B: Polymer Physics*, **1999**, 37, 539-552	2.6	28

44	High-density polyethylene fractionation with supercritical propane. *Journal of Polymer Science, Part B: Polymer Physics*, **1999**, 37, 553-560	2.6	12
43	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	56
42	Copolymerization of ethylene and 1-hexene with supported metallocene catalysts: Effect of support treatment. *Macromolecular Rapid Communications*, **1999**, 20, 347-350	4.8	38
41	Combined metallocene catalysts: an efficient technique to manipulate long-chain branching frequency of polyethylene. *Macromolecular Rapid Communications*, **1999**, 20, 541-545	4.8	46
40	The influence of the Ti3+ species on the microstructure of ethylene/1-hexene copolymers. *Macromolecular Chemistry and Physics*, **1999**, 200, 1298-1305	2.6	14
39	Copolymerization of ethylene and 1-hexene with in-situ supported Et[Ind]2ZrCl2. *Macromolecular Chemistry and Physics*, **1999**, 200, 2372-2376	2.6	41
38	Metallocene catalyzed polymerization: industrial technology. *Polymer Science and Technology*, **1999** , 446-453		2
37	Synthesis of tailor-made polyethylene through the control of polymerization conditions using selectively combined metallocene catalysts in a supported system **1999**, 37, 331		1
36	Controlling molecular weight distributions of polyethylene by combining soluble metallocene/MAO catalysts. *Journal of Polymer Science Part A*, **1998**, 36, 831-840	2.5	59
35	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	4.8	59
34	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	2.6	68
33	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	2.6	40
32	A critical examination of polyethylene molecular weight distribution control through the combination of soluble metallocene/methylalumoxane catalysts. *Polymer International*, **1998**, 47, 351-360	3.3	21
31	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		27
30	Effect of operating conditions on the molecular weight distribution of polyethylene synthesized by soluble metallocene/methylaluminoxane catalysts **1998**, 199, 955		1
29	A Novel Solution of Saito's Integral Equation for Random Scission: Application on the Vtsbreakeng of Isotactic Polypropylene. *Polymer-Plastics Technology and Engineering*, **1997**, 5, 25-44		1
28	Mathematical Modeling of Multicomponent Chain-Growth Polymerizations in Batch, Semibatch, and Continuous Reactors: A Review. *Industrial & Engineering Chemistry Research*, **1997**, 36, 966-1015	3.9	143
27	Analysis and Control of the Molecular Weight and Chemical Composition Distributions of Polyolefins Made with Metallocene and Ziegler-Natta Catalysts. *Industrial & Engineering Chemistry Research*, **1997**, 36, 1144-1150	3.9	68

26	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	1.5	41
25	Metallocene Catalysts in Dispersed Media **1997**, 155-176		
24	Transport Phenomena in Emulsion Polymerization Reactors **1997**, 289-304		
23	Polymerization reaction engineering Metallocene catalysts. *Progress in Polymer Science*, **1996**, 21, 651-706	29.6	152
22	A new methodology for studying multiple-site-type catalysts for the copolymerization of olefins. *Macromolecular Chemistry and Physics*, **1996**, 197, 3383-3396	2.6	40
21	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	1.5	100
20	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	3.9	39
19	Metallocene/Aluminoxane Catalysts for Olefin Polymerization. A Review. *Polymer-Plastics Technology and Engineering*, **1995**, 3, 131-200		70
18	Analyzing TREF data by stockmayer bivariate distribution. *Macromolecular Theory and Simulations*, **1995**, 4, 305-324	1.5	58
17	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	1.5	31
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