

Alexander Penlidis

List of Publications by Year in descending order

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299
papers

6,427
citations

87723

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docs citations

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times ranked

3291
citing authors

#	ARTICLE	IF	CITATIONS
1	An Updated Review on Suspension Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 939-965.	1.8	249
2	A microcomputer program for estimation of copolymerization reactivity ratios. <i>Journal of Polymer Science Part A</i> , 1991, 29, 703-708.	2.5	219
3	Mathematical Modeling of Multicomponent Chain-Growth Polymerizations in Batch, Semibatch, and Continuous Reactors: A Review. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 966-1015.	1.8	166
4	Multicomponent free-radical polymerization in batch, semi-batch and continuous reactors. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1987, 10-11, 521-570.	0.6	125
5	Case studies and literature review on the estimation of copolymerization reactivity ratios. <i>Journal of Polymer Science Part A</i> , 1998, 36, 813-822.	2.5	123
6	Mathematical modeling and computer simulator/database for emulsion polymerizations. <i>Progress in Polymer Science</i> , 2002, 27, 403-535.	11.8	106
7	ON-LINE SENSORS FOR POLYMERIZATION REACTORS. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1990, 30, 1-42.	2.2	105
8	A Comprehensive Simulator/Database Package for Reviewing Free-Radical Homopolymerizations. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1996, 36, 199-404.	2.2	84
9	Effect of operating conditions on the molecular weight distribution of polyethylene synthesized by soluble metallocene/methylaluminoxane catalysts. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 955-962.	1.1	72
10	Role of contact electrification and electrostatic interactions in gecko adhesion. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140371.	1.5	72
11	Controlling molecular weight distributions of polyethylene by combining soluble metallocene/MAO catalysts. <i>Journal of Polymer Science Part A</i> , 1998, 36, 831-840.	2.5	71
12	A Critical Overview of Sensors for Monitoring Polymerizations. <i>Macromolecular Reaction Engineering</i> , 2009, 3, 327-373.	0.9	70
13	On-line nonlinear model-based estimation and control of a polymer reactor. <i>AIChE Journal</i> , 1997, 43, 3042-3058.	1.8	69
14	An approach to interval estimation in partial least squares regression. <i>Analytica Chimica Acta</i> , 1993, 277, 495-501.	2.6	67
15	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> , 2002, 40, 2595-2611.	2.4	67
16	Polymerization mechanism for in situ supported metallocene catalysts. <i>Journal of Polymer Science Part A</i> , 2000, 38, 462-468.	2.5	61
17	Reactivity Ratio Estimation from Cumulative Copolymer Composition Data. <i>Macromolecular Reaction Engineering</i> , 2011, 5, 385-403.	0.9	61
18	Mechanical properties of ethylene/1-hexene copolymers with tailored short chain branching distributions. <i>Polymer</i> , 2002, 43, 767-773.	1.8	60

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19	Evaluation of Polymeric Materials for Chemical Enhanced Oil Recovery. <i>Processes</i> , 2020, 8, 361.	1.3	58
20	Dynamic modeling of emulsion polymerization reactors. <i>AIChE Journal</i> , 1985, 31, 881-889.	1.8	57
21	Gas Permeation Through Poly(Etherâ€¢amide) (PEBAX 2533) Block Copolymer Membranes. <i>Separation Science and Technology</i> , 2005, 39, 149-164.	1.3	54
22	HDPE/LLDPE reactor blends with bimodal microstructuresâ€¢Part II: rheological properties. <i>Polymer</i> , 2003, 44, 177-185.	1.8	50
23	Homopolymer of 4-benzoylphenyl methacrylate and its copolymers with glycidyl methacrylate: synthesis, characterization, monomer reactivity ratios and application as adhesives. <i>Reactive and Functional Polymers</i> , 2005, 62, 11-24.	2.0	50
24	Self-assembled nano-structured polyelectrolyte composite membranes for pervaporation. <i>Materials Science and Engineering C</i> , 2006, 26, 1-8.	3.8	50
25	Effect of hydrogen on ethylene polymerization using in-situ supported metallocene catalysts. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 552-557.	1.1	48
26	Simulation of Free Radical Bulk/Solution Homopolymerization Using Mono- and Bi-functional Initiators. <i>Polymer-Plastics Technology and Engineering</i> , 2000, 8, 299-464.	0.7	48
27	Influence of micromolecular structure on environmental stress cracking resistance of high density polyethylene. <i>Tunnelling and Underground Space Technology</i> , 2011, 26, 582-593.	3.0	47
28	Copolymerization of ethylene and 1-hexene with in-situ supported Et[Ind] ₂ ZrCl ₂ . <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 2372-2376.	1.1	46
29	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> , 2000, 201, 340-348.	1.1	46
30	Mechanical properties of ETFE foils: Testing and modelling. <i>Construction and Building Materials</i> , 2014, 60, 63-72.	3.2	45
31	A New Multirate-Measurement-Based Estimator:Â Emulsion Copolymerization Batch Reactor Case Study. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1036-1047.	1.8	44
32	Ethylene/1-octene copolymerization studies within situ supported metallocene catalysts: Effect of polymerization parameters on the catalyst activity and polymer microstructure. <i>Journal of Polymer Science Part A</i> , 2002, 40, 4426-4451.	2.5	44
33	HDPE/LLDPE reactor blends with bimodal microstructuresâ€¢part I: mechanical properties. <i>Polymer</i> , 2002, 43, 7345-7365.	1.8	44
34	Modeling of the Nitroxideâ€¢Mediated Radical Copolymerization of Styrene and Divinylbenzene. <i>Macromolecular Reaction Engineering</i> , 2009, 3, 288-311.	0.9	44
35	A Comprehensive Simulator/Database Package for Reviewing Free-Radical Copolymerizations. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1998, 38, 651-780.	2.2	43
36	Simulation of Styrene Polymerization by Monomolecular and Bimolecular Nitroxide-Mediated Radical Processes over a Range of Reaction Conditions. <i>Macromolecular Theory and Simulations</i> , 2007, 16, 194-208.	0.6	41

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37	Evaluating the performance of tailor-made water-soluble copolymers for enhanced oil recovery polymer flooding applications. <i>Fuel</i> , 2017, 203, 269-278.	3.4	41
38	Polymer reaction engineering: Modelling considerations for control studies. <i>The Chemical Engineering Journal</i> , 1992, 50, 95-107.	0.4	40
39	High-temperature solution polymerization of butyl acrylate/methyl methacrylate: Reactivity ratio estimation. <i>Journal of Applied Polymer Science</i> , 2000, 77, 602-609.	1.3	40
40	Effect of prepolymerization and hydrogen pressure on the microstructure of ethylene/1-hexene copolymers made with MgCl ₂ -supported TiCl ₃ catalysts. <i>European Polymer Journal</i> , 2000, 36, 3-11.	2.6	39
41	Layer-by-layer self-assembled polyelectrolyte membranes for solvent dehydration by pervaporation. <i>Materials Science and Engineering C</i> , 2007, 27, 612-619.	3.8	39
42	Continuous emulsion polymerization: design and control of CSTR trains. <i>Chemical Engineering Science</i> , 1989, 44, 273-281.	1.9	37
43	Viscoelastic Properties of Crosslinked Chitosan Films. <i>Processes</i> , 2019, 7, 157.	1.3	37
44	Effect of impurities on emulsion polymerization: Case I kinetics. <i>Journal of Applied Polymer Science</i> , 1988, 35, 2023-2038.	1.3	36
45	A kinetic investigation of butyl acrylate polymerization. <i>Journal of Applied Polymer Science</i> , 1991, 43, 2137-2145.	1.3	36
46	Nonlinear model-based predictive control of control nonaffine systems. <i>Automatica</i> , 1997, 33, 907-913.	3.0	36
47	A Comparison of Reaction Mechanisms for Reversible Addition-Fragmentation Chain Transfer Polymerization Using Modeling Tools. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 1293-1322.	1.2	36
48	Modeling of Network Formation in Nitroxide-Mediated Radical Copolymerization of Vinyl/Divinyl Monomers Using a Multifunctional Polymer Molecule Approach. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 302-321.	0.6	36
49	Sulfobetaine zwitterionomers based onn-butyl acrylate and 2-ethoxyethyl acrylate: Monomer synthesis and copolymerization behavior. <i>Journal of Polymer Science Part A</i> , 2002, 40, 511-523.	2.5	35
50	Homopolymer of 4-propanoylphenyl methacrylate and its copolymers with glycidyl methacrylate: synthesis, characterization, reactivity ratios and application as adhesives. <i>Reactive and Functional Polymers</i> , 2004, 59, 197-209.	2.0	35
51	Crosslinking nitroxide-mediated radical copolymerization of styrene with divinylbenzene. <i>European Polymer Journal</i> , 2014, 51, 87-111.	2.6	34
52	Effect of experimental conditions on ethylene polymerization within-situ-supported metallocene catalyst. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1803-1810.	2.5	33
53	Homopolymer and copolymers of 4-benzyloxycarbonylphenyl acrylate with glycidyl methacrylate: Synthesis, characterization, reactivity ratios, and application as adhesive for leather. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3604-3612.	1.3	33
54	Modeling of Network Formation in Reversible Addition-Fragmentation Transfer (RAFT) Copolymerization of Vinyl/Divinyl Monomers Using a Multifunctional Polymer Molecule Approach. <i>Macromolecular Theory and Simulations</i> , 2014, 23, 147-169.	0.6	33

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55	A Review on the Synthesis, Characterization, and Modeling of Polymer Grafting. Processes, 2021, 9, 375.	1.3	33
56	A kinetic investigation of styrene/butyl acrylate copolymerization. Canadian Journal of Chemical Engineering, 1990, 68, 974-987.	0.9	32
57	Model discrimination via designed experiments: discriminating between the terminal and penultimate models on the basis of composition data. Macromolecules, 1994, 27, 386-399.	2.2	32
58	A practical approach to modeling time-dependent nonlinear creep behavior of polyethylene for structural applications. Polymer Engineering and Science, 2008, 48, 159-167.	1.5	32
59	Copolymerization of 4-benzyloxycarbonylphenyl methacrylate with glycidyl methacrylate: synthesis, characterization, reactivity ratios and application as adhesives. Reactive and Functional Polymers, 2003, 56, 89-101.	2.0	31
60	Effect of ionic strength on the reactivity ratios of acrylamide/acrylic acid (sodium acrylate) copolymerization. Journal of Applied Polymer Science, 2014, 131, .	1.3	31
61	Novel undercoupled radio-frequency (RF) resonant sensor for gaseous ethanol and interferents detection. Sensors and Actuators A: Physical, 2015, 230, 63-73.	2.0	31
62	Polyolefin analysis by single-step crystallization fractionation. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 539-552.	2.4	30
63	Copolymerization of alpha-methyl styrene with butyl acrylate in bulk. Polymer, 2002, 43, 1607-1614.	1.8	30
64	A Tensile Strain Hardening Test Indicator of Environmental Stress Cracking Resistance. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 599-611.	1.2	30
65	Binary MEMS gas sensors. Journal of Micromechanics and Microengineering, 2014, 24, 065007.	1.5	30
66	Round-robin experiment in high-temperature gel permeation chromatography. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 905-921.	2.4	29
67	Effect of Monomer Concentration and pH on Reaction Kinetics and Copolymer Microstructure of Acrylamide/Acrylic Acid Copolymer. Macromolecular Reaction Engineering, 2015, 9, 100-113.	0.9	29
68	Intelligent Monte Carlo: A New Paradigm for Inverse Polymerization Engineering. Macromolecular Theory and Simulations, 2018, 27, 1700106.	0.6	29
69	Ethylene-vinyl acetate semi-batch emulsion copolymerization: Experimental design and preliminary screening experiments. Journal of Polymer Science Part A, 1993, 31, 403-426.	2.5	28
70	Dynamic bifurcation MEMS gas sensors. Journal of Micromechanics and Microengineering, 2019, 29, 015005.	1.5	28
71	Mathematical modelling of styrene/butyl acrylate copolymerization. Chemical Engineering Science, 1990, 45, 2785-2792.	1.9	27
72	Mathematical Modeling of Emulsion Copolymerization of Acrylonitrile/Butadiene. Industrial & Engineering Chemistry Research, 1996, 35, 4434-4448.	1.8	27

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73	A kinetic investigation of styrene/ethyl acrylate copolymerization. <i>Journal of Polymer Science Part A</i> , 1996, 34, 237-248.	2.5	27
74	Discriminating between the Terminal and Penultimate Models Using Designed Experiments: An Overview. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1016-1035.	1.8	27
75	Controlled Free-Radical Copolymerization Kinetics of Styrene and Divinylbenzene by Bimolecular NMRP using TEMPO and Dibenzoyl Peroxide. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 995-1011.	1.2	27
76	A powerful estimation scheme with the error-in-variables-model for nonlinear cases: Reactivity ratio estimation examples. <i>Computers and Chemical Engineering</i> , 2013, 48, 200-208.	2.0	27
77	A systematic approach to the study of multicomponent polymerization kinetics: the butyl acrylate/methyl methacrylate/vinyl acetate example, 2. Bulk (and solution) terpolymerization. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 1101-1112.	1.1	26
78	Using alkylaluminium 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> , 2000, 201, 2195-2202.	1.1	26
79	Doped Polyaniline for the Detection of Formaldehyde. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2012, 49, 1-6.	1.2	26
80	Teflon hierarchical nanopillars with dry and wet adhesive properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 846-851.	2.4	26
81	Polymeric Bio-Inspired Dry Adhesives: Van der Waals or Electrostatic Interactions?. <i>Macromolecular Reaction Engineering</i> , 2013, 7, 588-608.	0.9	26
82	Optimal estimation of reactivity ratios for acrylamide/acrylic acid copolymerization. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4819-4827.	2.5	26
83	Effects of processing variables on polypropylene degradation and long chain branching with UV irradiation. <i>Polymer Degradation and Stability</i> , 2014, 104, 1-10.	2.7	26
84	Effect of impurities on emulsion polymerization: Case II kinetics. <i>Journal of Applied Polymer Science</i> , 1988, 35, 2009-2021.	1.3	25
85	Calculation of the particle size distribution in suspension polymerization using a compartment-mixing model. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 495-505.	0.9	25
86	Assessing the Importance of Diffusion-Controlled Effects on Polymerization Rate and Molecular Weight Development in Nitroxide-Mediated Radical Polymerization of Styrene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 193-203.	1.2	25
87	Enhanced adhesion and friction by electrostatic interactions of double-level Teflon nanopillars. <i>Soft Matter</i> , 2013, 9, 1985-1996.	1.2	25
88	Kinetic model-based experimental design of the polymerization conditions in suspension copolymerization of styrene/divinylbenzene. <i>Journal of Polymer Science Part A</i> , 1998, 36, 2081-2094.	2.5	24
89	High Temperature Bulk Copolymerization of Butyl Acrylate/Methyl Methacrylate: Reactivity Ratio Estimation. <i>Polymer-Plastics Technology and Engineering</i> , 1999, 7, 131-145.	0.7	24
90	A Protocol for the Estimation of Parameters in Process Models: Case Studies with Polymerization Scenarios. <i>Macromolecular Theory and Simulations</i> , 2004, 13, 115-132.	0.6	24

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91	Modelling of free radical polymerization of styrene and methyl methacrylate by a tetrafunctional initiator. <i>Chemical Engineering Science</i> , 2006, 61, 4827-4859.	1.9	24
92	Copolymerization with depropagation: A study of β -methyl styrene/methyl methacrylate in bulk at elevated temperatures. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1981-1990.	2.5	23
93	Effect of the addition of inert or TEMPO-capped prepolymer on polymerization rate and molecular weight development in the nitroxide-mediated radical polymerization of styrene. <i>Journal of Applied Polymer Science</i> , 2008, 109, 3665-3678.	1.3	23
94	Hydrodynamic and Size Exclusion Chromatography of Particle Suspensions—An Update. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1983, 6, 179-217.	0.9	22
95	Ethylene-vinyl acetate semi-batch emulsion copolymerization: Use of factorial experiments for improved process understanding. <i>Journal of Polymer Science Part A</i> , 1993, 31, 2205-2230.	2.5	22
96	A systematic approach to the study of multicomponent polymerization kinetics: butyl acrylate/methyl methacrylate/vinyl acetate. III. Emulsion homopolymerization and copolymerization in a pilot plant reactor. <i>Polymer International</i> , 1995, 37, 235-248.	1.6	22
97	A comprehensive simulator/database package for bulk/solution free-radical terpolymerizations. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 1176-1184.	1.1	22
98	Copolymerization with depropagation: A study of β -methyl styrene/methyl methacrylate in solution at elevated temperatures. <i>Journal of Polymer Science Part A</i> , 2001, 39, 1753-1763.	2.5	22
99	Free-radical polymerization of methyl methacrylate with a tetrafunctional peroxide initiator. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5647-5661.	2.5	22
100	Another Perspective on the Nitroxide Mediated Radical Polymerization (NMRP) of Styrene Using 2,2,6,6-tetramethyl-1-piperidinyloxy (TEMPO) and Dibenzoyl Peroxide (BPO). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 337-349.	1.2	22
101	Model discrimination via designed experiments: Discrimination between the terminal and penultimate models based on rate data. <i>Chemical Engineering Science</i> , 1995, 50, 1619-1634.	1.9	21
102	A critical examination of polyethylene molecular weight distribution control through the combination of soluble metallocene/methylalumoxane catalysts. <i>Polymer International</i> , 1998, 47, 351-360.	1.6	21
103	Intelligent Machine Learning: Tailor-Making Macromolecules. <i>Polymers</i> , 2019, 11, 579.	2.0	21
104	Control policies for an industrial acetylene hydrogenation reactor. <i>Canadian Journal of Chemical Engineering</i> , 1991, 69, 152-164.	0.9	20
105	Peroxide-controlled degradation of polypropylene using a tetrafunctional initiator. <i>Polymer Engineering and Science</i> , 2009, 49, 1760-1766.	1.5	20
106	Thermal polymerization of styrene in the presence of TEMPO. <i>Chemical Engineering Science</i> , 2009, 64, 304-312.	1.9	20
107	Chain Entanglements and Mechanical Behavior of High Density Polyethylene. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2010, 132, .	0.8	20
108	Computational Package for Copolymerization Reactivity Ratio Estimation: Improved Access to the Error-in-Variables-Model. <i>Processes</i> , 2018, 6, 8.	1.3	20

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109	Dynamic modelling of the continuous emulsion polymerization of vinyl chloride. <i>Journal of Vinyl Technology</i> , 1984, 6, 134-142.	0.2	19
110	Revisiting the design of experiments for copolymer reactivity ratio estimation. <i>Journal of Polymer Science Part A</i> , 1993, 31, 3065-3072.	2.5	19
111	An experimental verification of statistical discrimination between the terminal and penultimate copolymerization models. <i>Journal of Polymer Science Part A</i> , 1996, 34, 2665-2678.	2.5	19
112	Process modelling and optimization of styrene polymerization. <i>Macromolecular Symposia</i> , 2004, 206, 509-522.	0.4	19
113	Use of a Novel Tetrafunctional Initiator in the Free Radical Homo- and Copolymerization of Styrene, Methyl Methacrylate and Methyl Styrene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2005, 42, 403-426.	1.2	19
114	Simulation of RAFT Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecular Theory and Simulations</i> , 2008, 17, 280-289.	0.6	19
115	A replicated investigation of nitroxide-mediated radical polymerization of styrene over a range of reaction conditions. <i>Canadian Journal of Chemical Engineering</i> , 2008, 86, 879-892.	0.9	19
116	Optimal Design for Reactivity Ratio Estimation: A Comparison of Techniques for AMPS/Acrylamide and AMPS/Acrylic Acid Copolymerizations. <i>Processes</i> , 2015, 3, 749-768.	1.3	19
117	Binary vs. ternary reactivity ratios: Appropriate estimation procedures with terpolymerization data. <i>European Polymer Journal</i> , 2018, 105, 442-450.	2.6	19
118	Degradation of glass fiber reinforced polymer (GFRP) bars in concrete environment. <i>Construction and Building Materials</i> , 2021, 293, 123451.	3.2	19
119	Free Radical Polymerization of Styrene with a New Tetrafunctional Peroxide Initiator. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 436-442.	1.1	18
120	Copolymers of 3,5-dimethylphenyl acrylate and methyl methacrylate: synthesis, characterization and determination of monomer reactivity ratios. <i>Polymer International</i> , 2003, 52, 1856-1862.	1.6	18
121	Copolymer Composition Control Policies: Characteristics and Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008, 45, 115-132.	1.2	18
122	Phase Interconnectivity and Environmental Stress Cracking Resistance of Polyethylene: A Crystalline Phase Investigation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 572-583.	1.2	18
123	Mathematical Modeling of Acrylonitrile-Butadiene Emulsion Copolymerization: Model Development and Validation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 747-769.	1.2	18
124	Visualization of Bivariate Sequence Length-Chain Length Distribution in Free Radical Copolymerization. <i>Macromolecular Theory and Simulations</i> , 2017, 26, 1700041.	0.6	18
125	Model discrimination via designed experiments: Discriminating between the terminal and penultimate models based on triad fraction data. <i>Macromolecular Theory and Simulations</i> , 1994, 3, 1005-1031.	0.6	17
126	A systematic approach to the study of multicomponent polymerization kinetics: The butyl acrylate/methyl methacrylate/vinyl acetate example. IV. Optimal Bayesian design of emulsion terpolymerization experiments in a pilot plant reactor. <i>Journal of Polymer Science Part A</i> , 1996, 34, 811-831.	2.5	17

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127	The influence of the Ti ³⁺ species on the microstructure of ethylene/1-hexene copolymers. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 1298-1305.	1.1	17
128	The asymptotic variance of the univariate PLS estimator. <i>Linear Algebra and Its Applications</i> , 2002, 354, 245-253.	0.4	17
129	Effect of initiator type and concentration on polymerization rate and molecular weight in the bimolecular nitroxide-mediated radical polymerization of styrene. <i>Advances in Polymer Technology</i> , 2010, 29, 11-19.	0.8	17
130	The role of pH, ionic strength and monomer concentration on the terpolymerization of 2-acrylamido-2-methylpropane sulfonic acid, acrylamide and acrylic acid. <i>Polymer</i> , 2019, 177, 214-230.	1.8	17
131	Polymer reaction engineering: From reaction kinetics to polymer reactor control. <i>Canadian Journal of Chemical Engineering</i> , 1994, 72, 385-391.	0.9	16
132	Design of Experiments for Reactivity Ratio Estimation in Multicomponent Polymerizations Using the Error-in-Variables Approach. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 261-272.	0.6	16
133	Novel Test System for Gas Sensing Materials and Sensors. <i>Macromolecular Symposia</i> , 2013, 324, 11-18.	0.4	16
134	Demystifying the estimation of reactivity ratios for terpolymerization systems. <i>AIChE Journal</i> , 2014, 60, 1752-1766.	1.8	16
135	The geometry of 2-block partial least squares regression. <i>Communications in Statistics - Theory and Methods</i> , 1992, 21, 1517-1553.	0.6	15
136	Choosing the right model: Case studies on the use of statistical model discrimination experiments. <i>Canadian Journal of Chemical Engineering</i> , 1997, 75, 422-436.	0.9	15
137	High-density polyethylene fractionation with supercritical propane. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 553-560.	2.4	15
138	Inverse modeling applications in emulsion polymerization of vinyl acetate. <i>Chemical Engineering Science</i> , 2004, 59, 3159-3167.	1.9	15
139	Nitroxide-mediated radical copolymerization of styrene and divinylbenzene: increased polymerization rate by using TBEC as initiator. <i>Journal of Materials Science</i> , 2010, 45, 1878-1884.	1.7	15
140	Mathematical Modeling of Emulsion Polymerization Reactors. <i>ACS Symposium Series</i> , 1986, , 219-240.	0.5	14
141	Optimization of Polymerization Reactor Operation: Review and Case Studies with the End-Point Collocation Method. <i>Polymer-Plastics Technology and Engineering</i> , 1994, 2, 275-313.	0.7	14
142	Ethylene-vinyl acetate semi-batch emulsion copolymerization: Use of factorial experiments for process optimization. <i>Journal of Polymer Science Part A</i> , 1994, 32, 539-555.	2.5	14
143	Effect of impurities on continuous solution methyl methacrylate polymerization reactors II. Closed-loop real-time control. <i>Chemical Engineering Science</i> , 1994, 49, 1855-1868.	1.9	14
144	Copolymerization of 4-Benzyloxycarbonylphenyl Acrylate with Methyl Methacrylate: Synthesis, Characterization, and Determination of Reactivity Ratios. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003, 40, 125-140.	1.2	14

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145	Studies on photocrosslinkable copolymers of 4-methacryloyloxyphenyl-3,4-dimethoxystyryl ketone and methyl methacrylate. <i>European Polymer Journal</i> , 2005, 41, 831-841.	2.6	14
146	Nitroxide-mediated controlled degradation of polypropylene. <i>Polymer Engineering and Science</i> , 2007, 47, 2118-2123.	1.5	14
147	Polymer Network Mobility and Environmental Stress Cracking Resistance of High Density Polyethylene. <i>Polymer-Plastics Technology and Engineering</i> , 2009, 48, 1252-1261.	1.9	14
148	Branched and Crosslinked Polymers Synthesized through NMRP: Quantitative Indicators for Network Homogeneity?. <i>Macromolecular Reaction Engineering</i> , 2014, 8, 639-657.	0.9	14
149	Effect of Temperature on Environmental Stress Cracking Resistance and Crystal Structure of Polyethylene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 189-202.	1.2	14
150	Molecular Architecture Manipulation in Free Radical Copolymerization: An Advanced Monte Carlo Approach to Screening Copolymer Chains with Various Comonomer Sequence Arrangements. <i>Macromolecular Theory and Simulations</i> , 2016, 25, 369-382.	0.6	14
151	AMPS/AAm/AAC Terpolymerization: Experimental Verification of the EVM Framework for Ternary Reactivity Ratio Estimation. <i>Processes</i> , 2017, 5, 9.	1.3	14
152	Long range predictive control of a polymerization reactor. <i>Canadian Journal of Chemical Engineering</i> , 1991, 69, 120-129.	0.9	13
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