

Dagmar R D'hooge

List of Publications by Year in descending order

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140
papers

4,885
citations

81900

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128289

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141
all docs

141
docs citations

141
times ranked

2772
citing authors

#	ARTICLE	IF	CITATIONS
1	Fused filament fabrication of copolyesters by understanding the balance of inter- and intra-layer welding. <i>Plastics, Rubber and Composites</i> , 2022, 51, 126-132.	2.0	8
2	Differences and similarities between mono-, bi- or tetrafunctional initiated cationic ring-opening polymerization of 2-oxazolines. <i>Polymer Chemistry</i> , 2022, 13, 861-876.	3.9	3
3	Multi-scale reactive extrusion modelling approaches to design polymer synthesis, modification and mechanical recycling. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 245-263.	3.7	18
4	Setting the Optimal Laser Power for Sustainable Powder Bed Fusion Processing of Elastomeric Polyesters: A Combined Experimental and Theoretical Study. <i>Materials</i> , 2022, 15, 385.	2.9	4
5	Increasing the Sustainability of the Hybrid Mold Technique through Combined Insert Polymeric Material and Additive Manufacturing Method Design. <i>Sustainability</i> , 2022, 14, 877.	3.2	3
6	Cost-efficient modeling of distributed molar mass and topological variations in graft copolymer synthesis by upgrading the method of moments. <i>AIChE Journal</i> , 2022, 68, .	3.6	23
7	A unified kinetic Monte Carlo approach to evaluate (a)symmetric block and gradient copolymers with linear and branched chains illustrated for poly(2-oxazoline)s. <i>Polymer Chemistry</i> , 2022, 13, 1559-1575.	3.9	10
8	From identifying polymeric resins to corrosion casting applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	2
9	Procedures and Guidelines for Inputting and Output Smoothing of Kinetic Monte Carlo Distributions. <i>Advanced Theory and Simulations</i> , 2022, 5, .	2.8	7
10	Melt exit flow modelling and experimental validation for fused filament fabrication: From Newtonian to non-Newtonian effects. <i>Journal of Manufacturing Processes</i> , 2022, 77, 138-150.	5.9	24
11	Molecularly Imprinted Polymers with Enhanced Selectivity Based on 4-(Aminomethyl)pyridine-Functionalized Poly(2-oxazoline)s for Detecting Hazardous Herbicide Contaminants. <i>Chemistry of Materials</i> , 2022, 34, 84-96.	6.7	9
12	Sensitivity analysis of isothermal free radical induced grafting through application of the distribution - Numerical fractionation - Method of moments. <i>Chemical Engineering Journal</i> , 2022, 444, 136595.	12.7	11
13	Principles and Guidelines for In-Line Viscometry in Cereal Extrusion. <i>Polymers</i> , 2022, 14, 2316.	4.5	2
14	Toward More Universal Prediction of Polymer Solution Viscosity for Solvent-Based Recycling. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10999-11011.	3.7	6
15	Optimising open and closed cooling time for hybrid injection moulding of polypropylene with polyamide inserts from multi jet fusion. <i>Plastics, Rubber and Composites</i> , 2021, 50, 137-145.	2.0	3
16	Impact of side reactions on molar mass distribution, unsaturation level and branching density in solution free radical polymerization of <i>n</i> -butyl acrylate under well-defined lab-scale reactor conditions. <i>Polymer Chemistry</i> , 2021, 12, 2095-2114.	3.9	26
17	Jacket temperature regulation allowing well-defined non-adiabatic lab-scale solution free radical polymerization of acrylates. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1053-1069.	3.7	22
18	Extending Multilevel Statistical Entropy Analysis towards Plastic Recyclability Prediction. <i>Sustainability</i> , 2021, 13, 3553.	3.2	18

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19	Translating Simulated Chain Length and Molar Mass Distributions in Chain-Growth Polymerization for Experimental Comparison and Mechanistic Insight. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100008.	1.4	19
20	The chemistry of chemical recycling of solid plastic waste via pyrolysis and gasification: State-of-the-art, challenges, and future directions. <i>Progress in Energy and Combustion Science</i> , 2021, 84, 100901.	31.2	297
21	Exploiting (Multicomponent) Semibatch and Jacket Temperature Procedures to Safely Tune Molecular Properties for Solution Free Radical Polymerization of <i>n</i> -Butyl Acrylate. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2100024.	1.4	8
22	Computational prediction of the molecular configuration of three-dimensional network polymers. <i>Nature Materials</i> , 2021, 20, 1422-1430.	27.5	84
23	Going Beyond the Carothers, Flory and Stockmayer Equation by Including Cyclization Reactions and Mobility Constraints. <i>Polymers</i> , 2021, 13, 2410.	4.5	17
24	State-of-the-Art Quantification of Polymer Solution Viscosity for Plastic Waste Recycling. <i>ChemSusChem</i> , 2021, 14, 4071-4102.	6.8	22
25	A Combined Experimental and Modeling Study for Pellet-Fed Extrusion-Based Additive Manufacturing to Evaluate the Impact of the Melting Efficiency. <i>Materials</i> , 2021, 14, 5566.	2.9	10
26	Connecting Gas-Phase Computational Chemistry to Condensed Phase Kinetic Modeling: The State-of-the-Art. <i>Polymers</i> , 2021, 13, 3027.	4.5	18
27	Conformational Variations for Surface-Initiated Reversible Deactivation Radical Polymerization: From Flat to Curved Nanoparticle Surfaces. <i>Macromolecules</i> , 2021, 54, 8270-8288.	4.8	14
28	Bridging principal component analysis and method of moments based parameter estimation for grafting of polybutadiene with styrene. <i>Chemical Engineering Journal</i> , 2021, 425, 130463.	12.7	19
29	Coupled matrix kinetic Monte Carlo simulations applied for advanced understanding of polymer grafting kinetics. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 640-661.	3.7	35
30	Distribution Changes during Thermal Degradation of Poly(styrene peroxide) by Pairing Tree-Based Kinetic Monte Carlo and Artificial Intelligence Tools. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3334-3353.	3.7	13
31	Influence of machine type and consecutive closed-loop recycling on macroscopic properties for fused filament fabrication of acrylonitrile-butadiene-styrene parts. <i>Rapid Prototyping Journal</i> , 2021, 27, 268-277.	3.2	8
32	Synergy of Advanced Experimental and Modeling Tools to Underpin the Synthesis of Static Step-Growth-Based Networks Involving Polymeric Precursor Building Blocks. <i>Macromolecules</i> , 2021, 54, 9280-9298.	4.8	18
33	Testing the PTT Rheological Model for Extrusion of Virgin and Composite Materials in View of Enhanced Conductivity and Mechanical Recycling Potential. <i>Processes</i> , 2021, 9, 1969.	2.8	0
34	In Silico Screening To Achieve Fast Lab-Scale Nitroxide-Mediated Polymerization of <i>n</i> -Butyl Acrylate with Maximal Control over Macromolecular Properties. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16981-16992.	3.7	4
35	Combining Chromatographic, Rheological, and Mechanical Analysis to Study the Manufacturing Potential of Acrylic Blends into Polyacrylic Casts. <i>Materials</i> , 2021, 14, 6939.	2.9	2
36	Time-Dependent Differential and Integral Quantum Yields for Wavelength-Dependent [4+4] Photocycloadditions. <i>Chemistry - A European Journal</i> , 2020, 26, 478-484.	3.3	19

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37	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. <i>Progress in Materials Science</i> , 2020, 114, 100617.	32.8	267
38	Gillespie-Driven kinetic Monte Carlo Algorithms to Model Events for Bulk or Solution (Bio)Chemical Systems Containing Elemental and Distributed Species. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18357-18386.	3.7	56
39	A holistic approach for anthracene photochemistry kinetics. <i>Chemical Engineering Journal</i> , 2020, 402, 126259.	12.7	11
40	The Transferability and Design of Commercial Printer Settings in PLA/PBAT Fused Filament Fabrication. <i>Polymers</i> , 2020, 12, 2573.	4.5	9
41	Theoretical Evaluation of the Melting Efficiency for the Single-Screw Micro-Extrusion Process: The Case of 3D Printing of ABS. <i>Processes</i> , 2020, 8, 1522.	2.8	23
42	The Competition of Termination and Shielding to Evaluate the Success of Surface-Initiated Reversible Deactivation Radical Polymerization. <i>Polymers</i> , 2020, 12, 1409.	4.5	13
43	Progress in Reaction Mechanisms and Reactor Technologies for Thermochemical Recycling of Poly(methyl methacrylate). <i>Polymers</i> , 2020, 12, 1667.	4.5	62
44	Connecting polymer synthesis and chemical recycling on a chain-by-chain basis: a unified matrix-based kinetic Monte Carlo strategy. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1909-1928.	3.7	53
45	Benchmarking Stochastic and Deterministic Kinetic Modeling of Bulk and Solution Radical Polymerization Processes by Including Six Types of Factors Two. <i>Macromolecular Theory and Simulations</i> , 2020, 29, 2000065.	1.4	32
46	Combining carbon nanotube foam with nanosilver/silicone resin or graphene foam for advanced metamaterial design. <i>Journal of Materials Science</i> , 2020, 55, 16211-16219.	3.7	4
47	State of the Art for Extrudate Swell of Molten Polymers: From Fundamental Understanding at Molecular Scale toward Optimal Die Design at Final Product Scale. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000340.	3.6	41
48	Immiscibility of Chemically Alike Amorphous Polymers: Phase Separation of Poly(2-ethyl-2-oxazoline) and Poly(2-n-propyl-2-oxazoline). <i>Macromolecules</i> , 2020, 53, 7590-7600.	4.8	9
49	Roadmap for Monomer Conversion and Chain Length-Dependent Termination Reactivity Algorithms in Kinetic Monte Carlo Modeling of Bulk Radical Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22422-22439.	3.7	21
50	Exploiting the pulsed laser polymerization-size exclusion chromatography technique to retrieve kinetic parameters in radical polymerization: State-of-the-art and future challenges. <i>Advances in Chemical Engineering</i> , 2020, , 59-95.	0.9	4
51	Evaluating the exit pressure method for measurements of normal stress difference at high shear rates. <i>Journal of Rheology</i> , 2020, 64, 739-750.	2.6	19
52	Conformational Distributions near and on the Substrate during Surface-Initiated Living Polymerization: A Lattice-Based Kinetic Monte Carlo Approach. <i>Macromolecules</i> , 2020, 53, 4630-4648.	4.8	32
53	The impact of upstream contraction flow on three-dimensional polymer extrudate swell from slit dies. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 282, 104337.	2.4	10
54	Degradation kinetics of isotretinoin and its subsequent products in contact with TiO ₂ functionalized silica nanofibers. <i>Chemical Engineering Journal</i> , 2020, 387, 124143.	12.7	17

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55	Influence of Different Stabilization Systems and Multiple Ultraviolet A (UVA) Aging/Recycling Steps on Physicochemical, Mechanical, Colorimetric, and Thermal-Oxidative Properties of ABS. <i>Materials</i> , 2020, 13, 212.	2.9	23
56	Elegant design of carbon nanotube foams with double continuous structure for metamaterials in a broad frequency range. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3226-3234.	5.5	14
57	Green Degradable (Co)Polyacrylics: A Kinetic Monte Carlo Study. , 2020, 69, .		0
58	A Generic Combined Matrix- and Lattice-Based Kinetic Monte Carlo Modeling Tool to Tune Surface-Initiated Polymerization. , 2020, 69, .		0
59	[4+4] Anthracene Photodimerization for Controlled Folding of Single Chain Polymer Nanoparticles. , 2020, 69, .		0
60	Excellent Nanofiber Adhesion for Hybrid Polymer Materials with High Toughness Based on Matrix Interdiffusion During Chemical Conversion. <i>Advanced Functional Materials</i> , 2019, 29, 1807434.	14.9	17
61	Visualization and design of the functional group distribution during statistical copolymerization. <i>Nature Communications</i> , 2019, 10, 3641.	12.8	46
62	Coupled stochastic simulation of the chain length and particle size distribution in miniemulsion radical copolymerization of styrene and <i>N</i> -vinylcaprolactam. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1935-1947.	3.7	24
63	From <i>n</i> -butyl acrylate Arrhenius parameters for backbiting and tertiary propagation to β -scission via stepwise pulsed laser polymerization. <i>Polymer Chemistry</i> , 2019, 10, 4116-4125.	3.9	38
64	The Relevance of Multi-Phase Injection and Temperature Profiles to Design Multi-Phase Reactive Processing of Polyolefins. <i>Macromolecular Theory and Simulations</i> , 2019, 28, 1900035.	1.4	8
65	Improving Mechanical Properties for Extrusion-Based Additive Manufacturing of Poly(Lactic Acid) by Annealing and Blending with Poly(3-Hydroxybutyrate). <i>Polymers</i> , 2019, 11, 1529.	4.5	40
66	Three-dimensional flow simulations for polymer extrudate swell out of slit dies from low to high aspect ratios. <i>Physics of Fluids</i> , 2019, 31, .	4.0	28
67	The Nanoreactor Concept: Kinetic Features of Compartmentalization in Dispersed Phase Polymerization. <i>Macromolecules</i> , 2019, 52, 7963-7976.	4.8	53
68	Macropropagation Rate Coefficients and Branching Levels in Cationic Ring-Opening Polymerization of 2-Ethyl-2-oxazoline through Prediction of Size Exclusion Chromatography Data. <i>Macromolecules</i> , 2019, 52, 4067-4078.	4.8	17
69	Interplay of Head, Tail, and Mid-Chain Radicals in Bulk Free-Radical and Reversible Degenerative Addition Fragmentation Chain-Transfer Polymerizations of Vinyl Acetate. <i>Macromolecules</i> , 2019, 52, 4555-4569.	4.8	18
70	A Statistical Analysis on the Effect of Antioxidants on the Thermal-Oxidative Stability of Commercial Mass- and Emulsion-Polymerized ABS. <i>Polymers</i> , 2019, 11, 25.	4.5	20
71	A kinetic study on the para-fluoro-thiol reaction in view of its use in materials design. <i>Polymer Chemistry</i> , 2019, 10, 2781-2791.	3.9	18
72	Visible-Light-Induced Passerini Multicomponent Polymerization. <i>Angewandte Chemie</i> , 2019, 131, 5728-5732.	2.0	2

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73	Modeling of Miniemulsion Polymerization of Styrene with Macro-RAFT Agents to Theoretically Compare Slow Fragmentation, Ideal Exchange and Cross-Termination Cases. <i>Polymers</i> , 2019, 11, 320.	4.5	13
74	Isothermal flow of neat polypropylene through a slit die and its die swell: Bridging experiments and 3D numerical simulations. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 266, 33-45.	2.4	22
75	Visible-Light-Induced Passerini Multicomponent Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5672-5676.	13.8	43
76	Effect of Matrix and Graphite Filler on Thermal Conductivity of Industrially Feasible Injection Molded Thermoplastic Composites. <i>Polymers</i> , 2019, 11, 87.	4.5	35
77	Composite Materials: Excellent Nanofiber Adhesion for Hybrid Polymer Materials with High Toughness Based on Matrix Interdiffusion During Chemical Conversion (<i>Adv. Funct. Mater.</i> 8/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970051.	14.9	14
78	Designing formulation variables of extrusion-based manufacturing of carbon black conductive polymer composites for piezoresistive sensing. <i>Composites Science and Technology</i> , 2019, 171, 78-85.	7.8	53
79	A two-phase stochastic model to describe mass transport and kinetics during reactive processing of polyolefins. <i>Chemical Engineering Journal</i> , 2019, 377, 119980.	12.7	27
80	In Silico Tracking of Individual Species Accelerating Progress in Macromolecular Engineering and Design. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800057.	3.9	31
81	The relevance of material and processing parameters on the thermal conductivity of thermoplastic composites. <i>Polymer Engineering and Science</i> , 2018, 58, 466-474.	3.1	34
82	Analytical and advanced kinetic models for characterization of chain-growth copolymerization: the state-of-the-art. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 128-145.	3.7	37
83	Ab-initio-Based Kinetic Modeling to Understand RAFT Exchange: The Case of α -Cyanoethyl Propyl Dodecyl Trithiocarbonate and Styrene. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700403.	3.9	12
84	How chain length dependencies interfere with the bulk RAFT polymerization rate and microstructural control. <i>Chemical Engineering Science</i> , 2018, 177, 163-179.	3.8	35
85	Can the melt flow index be used to predict the success of fused deposition modelling of commercial poly(lactic acid) filaments into 3D printed materials?. <i>Plastics, Rubber and Composites</i> , 2018, 47, 9-16.	2.0	116
86	Two-compartment kinetic Monte Carlo modelling of electrochemically mediated ATRP. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 866-874.	3.7	28
87	Deterministic Modeling of Degenerative RAFT Miniemulsion Polymerization Rate and Average Polymer Characteristics: Invalidation of Zero-One Nature at Higher Monomer Conversions. <i>Macromolecules</i> , 2018, 51, 9442-9461.	4.8	14
88	Sensitivity Analysis of Single-Phase Isothermal Free Radical-Induced Grafting of Polyethylene. <i>Macromolecular Theory and Simulations</i> , 2018, 27, 1800036.	1.4	13
89	Silica Nanofibrous Membranes for the Separation of Heterogeneous Azeotropes. <i>Advanced Functional Materials</i> , 2018, 28, 1804138.	14.9	28
90	Access to the k_t -scission rate coefficient in acrylate radical polymerization by careful scanning of pulse laser frequencies at elevated temperature. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 807-815.	3.7	25

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91	Facile and Low-Cost Route for Sensitive Stretchable Sensors by Controlling Kinetic and Thermodynamic Conductive Network Regulating Strategies. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22678-22691.	8.0	45
92	Evaluating and predicting molecular mechanisms of adhesive degradation during field and accelerated aging of photovoltaic modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 981-993.	8.1	38
93	An evaluation of the impact of SG1 disproportionation and the addition of styrene in NMP of methyl methacrylate. <i>AIChE Journal</i> , 2018, 64, 2545-2559.	3.6	15
94	Simulation of the Degradation of Cyclic Ketene Acetal and Vinyl-Based Copolymers Synthesized via a Radical Process: Influence of the Reactivity Ratios on the Degradability Properties. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800193.	3.9	47
95	Kinetic Monte Carlo Modeling Extracts Information on Chain Initiation and Termination from Complete PLP-SEC Traces. <i>Macromolecules</i> , 2017, 50, 1371-1385.	4.8	54
96	Kinetic Monte Carlo Generation of Complete Electron Spray Ionization Mass Spectra for Acrylate Macromonomer Synthesis. <i>Macromolecules</i> , 2017, 50, 2625-2636.	4.8	45
97	Estimating the photodissociation quantum yield from PLP-SEC peak heights. <i>Polymer Chemistry</i> , 2017, 8, 3124-3128.	3.9	19
98	A detailed mechanistic study of bulk MADIX of styrene and its chain extension. <i>Polymer Chemistry</i> , 2017, 8, 6948-6963.	3.9	23
99	How penultimate monomer unit effects and initiator influence ICAR ATRP of <i>n</i> -butyl acrylate and methyl methacrylate. <i>AIChE Journal</i> , 2017, 63, 4971-4986.	3.6	35
100	Modeling the reaction event history and microstructure of individual macrospecies in postpolymerization modification. <i>AIChE Journal</i> , 2017, 63, 4944-4961.	3.6	43
101	Fusing Light-Induced Step-Growth Processes with RAFT Chemistry for Segmented Copolymer Synthesis: A Synergetic Experimental and Kinetic Modeling Study. <i>Macromolecules</i> , 2017, 50, 6451-6467.	4.8	41
102	Waterborne Electrospinning of Poly(<i>N</i> -isopropylacrylamide) by Control of Environmental Parameters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24100-24110.	8.0	29
103	A complete understanding of the reaction kinetics for the industrial production process of expandable polystyrene. <i>AIChE Journal</i> , 2017, 63, 2043-2059.	3.6	41
104	An Update on the Pivotal Role of Kinetic Modeling for the Mechanistic Understanding and Design of Bulk and Solution RAFT Polymerization. <i>Macromolecular Theory and Simulations</i> , 2017, 26, 1600048.	1.4	54
105	Ab initio based kinetic Monte Carlo analysis to unravel the propagation kinetics in vinyl acetate pulsed laser polymerization. <i>Polymer Chemistry</i> , 2017, 8, 7143-7150.	3.9	35
106	Model-Based Design To Push the Boundaries of Sequence Control. <i>Macromolecules</i> , 2016, 49, 9336-9344.	4.8	51
107	A Light-Activated Reaction Manifold. <i>Journal of the American Chemical Society</i> , 2016, 138, 7048-7054.	13.7	21
108	A novel method for the measurement of degenerative chain transfer coefficients: proof of concept and experimental validation. <i>Polymer Chemistry</i> , 2016, 7, 3334-3349.	3.9	8

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109	An alternative method to estimate the bulk backbiting rate coefficient in acrylate radical polymerization. <i>Polymer Chemistry</i> , 2016, 7, 6521-6528.	3.9	26
110	Chain Transfer in Degenerative RAFT Polymerization Revisited: A Comparative Study of Literature Methods. <i>Macromolecular Theory and Simulations</i> , 2016, 25, 104-115.	1.4	24
111	New Insights in the Treatment of Waste Water with Graphene: Dual-Site Adsorption by Sodium Dodecylbenzenesulfonate. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9387-9396.	3.7	20
112	The strength of multi-scale modeling to unveil the complexity of radical polymerization. <i>Progress in Polymer Science</i> , 2016, 58, 59-89.	24.7	174
113	Improved Livingness and Control over Branching in RAFT Polymerization of Acrylates: Could Microflow Synthesis Make the Difference?. <i>Macromolecular Rapid Communications</i> , 2015, 36, 2149-2155.	3.9	67
114	Exploring the Full Potential of Reversible Deactivation Radical Polymerization Using Pareto-Optimal Fronts. <i>Polymers</i> , 2015, 7, 655-679.	4.5	24
115	MAMA-SG1 initiated nitroxide mediated polymerization of styrene: From Arrhenius parameters to model-based design. <i>Chemical Engineering Journal</i> , 2015, 278, 407-420.	12.7	62
116	The Long and the Short of Radical Polymerization. <i>Macromolecules</i> , 2015, 48, 492-501.	4.8	57
117	Systematic investigation of alkyl sulfonate initiators for the cationic ring-opening polymerization of 2-oxazolines revealing optimal combinations of monomers and initiators. <i>European Polymer Journal</i> , 2015, 65, 298-304.	5.4	63
118	Improved Mechanistic Insights into Radical Sulfinyl Precursor MDMO-PPV Synthesis by Combining Microflow Technology and Computer Simulations. <i>Macromolecules</i> , 2015, 48, 8294-8306.	4.8	16
119	Model-Based Visualization and Understanding of Monomer Sequence Formation in Gradient Copoly(2-oxazoline)s On the basis of 2-Methyl-2-oxazoline and 2-Phenyl-2-oxazoline. <i>Macromolecules</i> , 2015, 48, 7765-7773.	4.8	33
120	Model-based design of the polymer microstructure: bridging the gap between polymer chemistry and engineering. <i>Polymer Chemistry</i> , 2015, 6, 7081-7096.	3.9	94
121	Fed-Batch Control and Visualization of Monomer Sequences of Individual ICAR ATRP Gradient Copolymer Chains. <i>Polymers</i> , 2014, 6, 1074-1095.	4.5	64
122	Controlled synthesis of poly[(butyl methacrylate)- <i>b</i> -(butyl acrylate)] via activator regenerated by electron transfer atom transfer radical polymerization: insights and improvement. <i>Polymer International</i> , 2014, 63, 848-857.	3.1	27
123	4-Dimensional Modeling Strategy for an Improved Understanding of Miniemulsion NMP of Acrylates Initiated by SG1-Macroinitiator. <i>Macromolecules</i> , 2014, 47, 7732-7741.	4.8	41
124	ICAR ATRP for Estimation of Intrinsic Macro-Activation/Deactivation Arrhenius Parameters under Polymerization Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9674-9685.	3.7	33
125	Assessment of end-group functionality in atom transfer radical polymerization of N-isopropylacrylamide. <i>European Polymer Journal</i> , 2013, 49, 2344-2355.	5.4	8
126	Kinetic Modeling of Radical Thiol-ene Chemistry for Macromolecular Design: Importance of Side Reactions and Diffusional Limitations. <i>Macromolecules</i> , 2013, 46, 1732-1742.	4.8	78

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127	ARGET ATRP of Butyl Methacrylate: Utilizing Kinetic Modeling To Understand Experimental Trends. <i>Macromolecules</i> , 2013, 46, 3828-3840.	4.8	90
128	Comparative Kinetic Monte Carlo study of the Sulfinyl and Dithiocarbamate Precursor Route toward Highly Regioregular MDMO-PPV. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 246-255.	1.4	15
129	A Theoretical Exploration of the Potential of ICAR ATRP for One- and Two-Pot Synthesis of Well-Defined Diblock Copolymers. <i>Macromolecular Reaction Engineering</i> , 2013, 7, 311-326.	1.5	42
130	Computer-Aided Optimization of Conditions for Fast and Controlled ICAR ATRP of <i>n</i> -Butyl Acrylate. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 136-149.	1.4	40
131	The Crucial Role of Diffusional Limitations in Controlled Radical Polymerization. <i>Macromolecular Reaction Engineering</i> , 2013, 7, 362-379.	1.5	122
132	Linear Gradient Quality of ATRP Copolymers. <i>Macromolecules</i> , 2012, 45, 8519-8531.	4.8	139
133	Tuning Polymer Properties through Competitive Processes. <i>ACS Symposium Series</i> , 2012, , 145-169.	0.5	6
134	Kinetic Modeling of ICAR ATRP. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 52-69.	1.4	84
135	Origin of the Difference between Branching in Acrylates Polymerization under Controlled and Free Radical Conditions: A Computational Study of Competitive Processes. <i>Macromolecules</i> , 2011, 44, 8361-8373.	4.8	84
136	Kinetic Monte Carlo Modeling of the Sulfinyl Precursor Route for Poly(<i>p</i> -phenylene vinylene) Synthesis. <i>Macromolecules</i> , 2011, 44, 8716-8726.	4.8	55
137	Kinetic Modeling as a Tool to Understand and Improve the Nitroxide Mediated Polymerization of Styrene. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 238-265.	1.4	49
138	Atom Transfer Radical Polymerization of Isobornyl Acrylate: A Kinetic Modeling Study. <i>Macromolecules</i> , 2010, 43, 8766-8781.	4.8	49
139	Importance of Radical Transfer in Precipitation Polymerization: The Case of Vinyl Chloride Suspension Polymerization. <i>Macromolecular Reaction Engineering</i> , 2009, 3, 16-35.	1.5	35
140	Methodology for Kinetic Modeling of Atom Transfer Radical Polymerization. <i>Macromolecular Reaction Engineering</i> , 2009, 3, 185-209.	1.5	85