

Gregory Thomas Russell

List of Publications by Year in descending order

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79
papers

4,897
citations

109321

35
h-index

91884

69
g-index

82
all docs

82
docs citations

82
times ranked

1476
citing authors

#	ARTICLE	IF	CITATIONS
1	The contributions of Prof. Kenneth F. O'Driscoll to radical copolymerization kinetics. Canadian Journal of Chemical Engineering, 2022, 100, 680-688.	1.7	2
2	Reconsidering terms for mechanisms of polymer growth: the "step-growth" and "chain-growth" dilemma. Polymer Chemistry, 2022, 13, 2262-2270.	3.9	11
3	Update and critical reanalysis of IUPAC benchmark propagation rate coefficient data. Polymer Chemistry, 2022, 13, 1891-1900.	3.9	22
4	A machine-readable online database for rate coefficients in radical polymerization. Polymer Chemistry, 2021, 12, 3688-3692.	3.9	7
5	Macromolecular Science Turns 100. Chemistry International, 2021, 43, 4-9.	0.3	0
6	The signal-to-noise issue in mass spectrometric analysis of polymers. Polymer Chemistry, 2021, 12, 4451-4461.	3.9	11
7	Initiator Feeding Policies in Semi-Batch Free Radical Polymerization: A Monte Carlo Study. Processes, 2020, 8, 1291.	2.8	10
8	Quo Vadis, Macromolecular Science? Reflections by the IUPAC Polymer Division on the Occasion of the Staudinger Centenary. Israel Journal of Chemistry, 2020, 60, 9-19.	2.3	5
9	List of keywords for polymer science (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 997-1027.	1.9	0
10	Detection of PLP Structure for Accurate Determination of Propagation Rate Coefficients over an Enhanced Range of PLP-SEC Conditions. Macromolecules, 2019, 52, 55-71.	4.8	14
11	Effects of Chain Transfer Agent and Temperature on Branching and β -Scission in Radical Polymerization of α -Ethylhexyl Acrylate. Macromolecular Chemistry and Physics, 2018, 219, 1700579.	2.2	19
12	Effect of transfer agent, temperature and initial monomer concentration on branching in poly(acrylic acid): A study by ^{13}C NMR spectroscopy and capillary electrophoresis. Polymer, 2017, 114, 209-220.	3.8	12
13	The Contribution of IUPAC to Polymer Science Education. Journal of Chemical Education, 2017, 94, 1618-1628.	2.3	2
14	Critically Evaluated Rate Coefficients in Radical Polymerization " 8. Propagation Rate Coefficients for Vinyl Acetate in Bulk. Macromolecular Chemistry and Physics, 2017, 218, 1600357.	2.2	24
15	Modeling of Polymerization Kinetics and Processes "from Voting to Toting. Chemistry International, 2017, 39, .	0.3	0
16	Critically evaluated rate coefficients in radical polymerization " 7. Secondary-radical propagation rate coefficients for methyl acrylate in the bulk. Polymer Chemistry, 2014, 5, 204-212.	3.9	118
17	Effect of cyclodextrin on the ^{60}Co -radiolysis initiated emulsion polymerization of styrene. Polymer, 2014, 55, 4447-4458.	3.8	0
18	Investigations into the Mass Spectrometric Method for the Determination of the Mode of Termination in Radical Polymerization. Macromolecular Chemistry and Physics, 2013, 214, 1384-1395.	2.2	4

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19	Single-pulse pulsed laser polymerization—electron paramagnetic resonance investigations into the termination kinetics of <i>n</i> -butyl acrylate macromonomers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4740-4748.	2.3	16
20	Investigations Into Chain-Length-Dependent Termination in Bulk Radical Polymerization of 1-H, 2-H, 2-H-Tridecafluorooctyl Methacrylate. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 19-28.	2.2	8
21	Chain-Length-Dependent Termination in Radical Polymerization of Acrylates. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1366-1378.	2.2	56
22	The Impact of Band Broadening on Molar-Mass Determination of Narrow-Distribution Polymer by Size-Exclusion Chromatography. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 667-674.	1.4	14
23	Model Discrimination of Radical Desorption Kinetics in Emulsion Polymerisation. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 425-432.	1.4	5
24	Termination Rate Coefficients for Radical Homopolymerization of Methyl Methacrylate and Styrene at Low Conversion. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 563-579.	2.2	34
25	Chain-length-dependent termination in radical polymerization: Subtle revolution in tackling a long-standing challenge. <i>Progress in Polymer Science</i> , 2009, 34, 1211-1259.	24.7	183
26	Determination of the Mode of Termination in Radical Polymerization via Mass Spectrometry. <i>Macromolecules</i> , 2009, 42, 652-662.	4.8	48
27	Real and Apparent Sources of Polydispersity in Molecular Weight Distributions from Radical Polymerization. <i>ACS Symposium Series</i> , 2009, , 15-31.	0.5	2
28	The Importance of Chain-Length Dependent Kinetics in Free-Radical Polymerization: A Preliminary Guide. <i>Macromolecular Symposia</i> , 2007, 248, 12-22.	0.7	29
29	Further Effects of Chain-Length-Dependent Reactivities on Radical Polymerization Kinetics. <i>Australian Journal of Chemistry</i> , 2007, 60, 754.	0.9	15
30	The Cutthroat Competition Between Termination and Transfer to Shape the Kinetics of Radical Polymerization. <i>Macromolecular Symposia</i> , 2007, 248, 1-11.	0.7	14
31	SP-PLP-EPR Study of Chain-Length-Dependent Termination in Free-Radical Polymerization of <i>n</i> -Dodecyl Methacrylate, Cyclohexyl Methacrylate, and Benzyl Methacrylate: Evidence of Composite Behavior. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3222-3230.	2.5	57
32	The nature of the chain-length dependence of the propagation rate coefficient and its effect on the kinetics of free-radical polymerization. 1. Small-molecule studies. <i>European Polymer Journal</i> , 2006, 42, 3-20.	5.4	116
33	The dissociation rate coefficient of persulfate in emulsion polymerization systems. <i>Polymer</i> , 2006, 47, 4667-4675.	3.8	21
34	When Harry Met Sally: Polymer Chemistry Meets Biomaterials. <i>Australian Journal of Chemistry</i> , 2006, 59, 477.	0.9	4
35	Theoretical Validation of Single-Pulse Pulsed-Laser Polymerization as a Method for Investigating Chain-Length-Dependent Termination. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005, 219, 295-323.	2.8	27
36	Critically evaluated termination rate coefficients for free-radical polymerization: Experimental methods. <i>Progress in Polymer Science</i> , 2005, 30, 605-643.	24.7	137

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37	Evaluation of latex adhesives containing hydrophobic cores and poly(vinyl acetate) shells: potential to improve poly(vinyl acetate) performance. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 127-137.	2.9	27
38	The effects of chain length dependent propagation and termination on the kinetics of free-radical polymerization at low chain lengths. <i>European Polymer Journal</i> , 2005, 41, 225-230.	5.4	59
39	Molecular Weight Distributions and Chain-Stopping Events in the Free-Radical Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2005, 38, 3214-3224.	4.8	44
40	General Solution to the Band-Broadening Problem in Polymer Molecular Weight Distributions. <i>Australian Journal of Chemistry</i> , 2005, 58, 178.	0.9	35
41	New Paradigms in Free-Radical Polymerization Kinetics. <i>Macromolecular Symposia</i> , 2005, 226, 133-146.	0.7	35
42	Critically Evaluated Rate Coefficients for Free-Radical Polymerization, 4. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1338-1350.	2.2	130
43	Termination in Dilute-Solution Free-Radical Polymerization: A Composite Model. <i>Macromolecular Theory and Simulations</i> , 2003, 12, 299-314.	1.4	127
44	Synthesis of latices with hydrophobic cores and poly(vinyl acetate) shells. 2. Use of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	3.8	27
45	Entry in Emulsion Polymerization: Effects of Initiator and Particle Surface Charge. <i>Macromolecules</i> , 2003, 36, 3921-3931.	4.8	59
46	Critically Evaluated Termination Rate Coefficients for Free-Radical Polymerization, 1. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 2570-2582.	2.2	178
47	Viscosity effects in cobaloxime-mediated catalytic chain-transfer polymerization of methacrylates. <i>Journal of Polymer Science Part A</i> , 2002, 40, 782-792.	2.3	22
48	Modelling secondary particle formation in emulsion polymerisation: application to making core-shell morphologies. <i>Polymer</i> , 2002, 43, 4557-4570.	3.8	46
49	Synthesis of latices with polystyrene cores and poly(vinyl acetate) shells. 1. Use of polystyrene seeds. <i>Polymer</i> , 2002, 43, 6371-6382.	3.8	51
50	Pulsed-laser polymerization-gel permeation chromatographic determination of the propagation-rate coefficient for the methyl acrylate dimer: A sterically hindered monomer. <i>Journal of Polymer Science Part A</i> , 2001, 39, 3902-3915.	2.3	33
51	Critically evaluated rate coefficients for free-radical polymerization, 3. Propagation rate coefficients for alkyl methacrylates. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 1355-1364.	2.2	274
52	Critically evaluated rate coefficients for free-radical polymerization, 3. Propagation rate coefficients for alkyl methacrylates. , 2000, 201, 1355.		1
53	Critically evaluated rate coefficients for free-radical polymerization, 3. Propagation rate coefficients for alkyl methacrylates. , 2000, 201, 1355.		2
54	Comparison of the Mayo and Chain Length Distribution Procedures for the Measurement of Chain Transfer Constants. <i>Macromolecules</i> , 1999, 32, 6019-6030.	4.8	71

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55	Visible Light Pulsed-OPO-Laser Polymerization at 450 nm Employing a Bis(acylphosphine oxide) Photoinitiator. <i>Macromolecules</i> , 1998, 31, 1763-1772.	4.8	14
56	Molecular Weight Distributions in Free-Radical Polymerizations. 2. Low-Conversion Bulk Polymerization. <i>Macromolecules</i> , 1997, 30, 1935-1946.	4.8	44
57	Critically evaluated rate coefficients for free-radical polymerization, 2.. Propagation rate coefficients for methyl methacrylate. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 1545-1560.	2.2	524
58	Kinetics of free radical solution polymerization of methyl methacrylate over an extended conversion range. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 2493-2516.	2.2	42
59	Critically evaluated rate coefficients for free-radical polymerization, 1. Propagation rate coefficient for styrene. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3267-3280.	2.2	617
60	Effect of photoinitiator on the molar mass distribution obtained from a pulsed laser polymerization. <i>Macromolecular Rapid Communications</i> , 1995, 16, 425-434.	3.9	23
61	The kinetics of free radical polymerizing systems at low conversion, 1. On the rate determining step of the bimolecular termination reaction. <i>Macromolecular Theory and Simulations</i> , 1995, 4, 497-517.	1.4	53
62	The kinetics of free radical polymerizing systems at low conversion, 2. On the influence of the monomer and initiator concentrations. <i>Macromolecular Theory and Simulations</i> , 1995, 4, 519-548.	1.4	36
63	The kinetics of free radical polymerizing systems at low conversion, 3. On the variation of the termination rate coefficient with monomer and with temperature. <i>Macromolecular Theory and Simulations</i> , 1995, 4, 549-576.	1.4	32
64	Chain-Length-Dependent Termination Rate Processes in Free-Radical Polymerizations. 3. Styrene Polymerizations with and without Added Inert Diluent as an Experimental Test of Model. <i>Macromolecules</i> , 1995, 28, 3637-3649.	4.8	52
65	Modeling of termination in intermediate and high conversion free radical polymerizations. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 539-554.	2.2	91
66	Initiator efficiencies in 2,2-azoisobutyronitrile-initiated free-radical polymerizations of styrene. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 2117-2140.	2.2	120
67	Variation with pressure of the propagation rate coefficient in free-radical polymerization of methyl methacrylate. <i>Macromolecular Rapid Communications</i> , 1994, 15, 351-355.	3.9	49
68	Rate of propagation in free-radical polymerization of methyl methacrylate in solution. <i>Macromolecular Rapid Communications</i> , 1994, 15, 647-653.	3.9	38
69	On exact and approximate methods of calculating an overall termination rate coefficient from chain length dependent termination rate coefficients. <i>Macromolecular Theory and Simulations</i> , 1994, 3, 439-468.	1.4	65
70	Diffusion controlled copolymerization kinetics. <i>Die Makromolekulare Chemie Theory and Simulations</i> , 1993, 2, 95-128.	1.0	27
71	Chain-length-dependent termination rate processes in free-radical polymerizations. 2. Modeling methodology and application to methyl methacrylate emulsion polymerizations. <i>Macromolecules</i> , 1993, 26, 3538-3552.	4.8	98
72	Chain-length-dependent termination rate processes in free-radical polymerizations. 1. Theory. <i>Macromolecules</i> , 1992, 25, 2459-2469.	4.8	153

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73	Consistent values of rate parameters in free radical polymerization systems. II. Outstanding dilemmas and recommendations. Journal of Polymer Science Part A, 1992, 30, 851-863.	2.3	199
74	High-conversion emulsion, dispersion and suspension polymerization. Makromolekulare Chemie Macromolecular Symposia, 1990, 35-36, 1-12.	0.6	11
75	Bimolecular termination events in the seeded emulsion polymerization of styrene. Macromolecules, 1990, 23, 4624-4634.	4.8	48
76	Initiator efficiencies in high-conversion bulk polymerizations. Macromolecules, 1988, 21, 2141-2148.	4.8	127
77	Termination in free-radical polymerizing systems at high conversion. Macromolecules, 1988, 21, 2133-2140.	4.8	161
78	The Importance of Chain-Length Dependent Kinetics in Free-Radical Polymerization: A Preliminary Guide. , 0, , 12-22.		0
79	The Cutthroat Competition Between Termination and Transfer to Shape the Kinetics of Radical Polymerization. , 0, , 1-11.		0