Gregory Thomas Russell

List of Publications by Year
in descending order

79	4,897	109321 35	91884 69
papers	citations	h-index	g-index

82	82	82	1476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Critically evaluated rate coefficients for free-radical polymerization, 1. Propagation rate coefficient for styrene. Macromolecular Chemistry and Physics, 1995, 196, 3267-3280.	2.2	617
2	Critically evaluated rate coefficients for free-radical polymerization, 2.. Propagation rate coefficients for methyl methacrylate. Macromolecular Chemistry and Physics, 1997, 198, 1545-1560.	2.2	524
3	Critically evaluated rate coefficients for free-radical polymerization, 3. Propagation rate coefficients for alkyl methacrylates. Macromolecular Chemistry and Physics, 2000, 201, 1355-1364.	2.2	274
4	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
5	Chain-length-dependent termination in radical polymerization: Subtle revolution in tackling a long-standing challenge. Progress in Polymer Science, 2009, 34, 1211-1259.	24.7	183
6	Critically Evaluated Termination Rate Coefficients for Free-Radical Polymerization, 1. Macromolecular Chemistry and Physics, 2002, 203, 2570-2582.	2.2	178
7	Termination in free-radical polymerizing systems at high conversion. Macromolecules, 1988, 21, 2133-2140.	4.8	161
8	Chain-length-dependent termination rate processes in free-radical polymerizations. 1. Theory. Macromolecules, 1992, 25, 2459-2469.	4.8	153
9	Critically evaluated termination rate coefficients for free-radical polymerization: Experimental methods. Progress in Polymer Science, 2005, 30, 605-643.	24.7	137
10	Critically Evaluated Rate Coefficients for Free-Radical Polymerization, 4. Macromolecular Chemistry and Physics, 2003, 204, 1338-1350.	2.2	130
11	Initiator efficiencies in high-conversion bulk polymerizations. Macromolecules, 1988, 21, 2141-2148.	4.8	127
12	Termination in Dilute-Solution Free-Radical Polymerization: A Composite Model. Macromolecular Theory and Simulations, 2003, 12, 299-314.	1.4	127
13	Initiator efficiencies in 2,2â€²-azoisobutyronitrile-initiated free-radical polymerizations of styrene. Macromolecular Chemistry and Physics, 1994, 195, 2117-2140.	2.2	120
14	Critically evaluated rate coefficients in radical polymerization â€“ 7. Secondary-radical propagation rate coefficients for methyl acrylate in the bulk. Polymer Chemistry, 2014, 5, 204-212.	3.9	118
15	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. European Polymer Journal, 2006, 42, 3-20.	5.4	116
16	Chain-length-dependent termination rate processes in free-radical polymerizations. 2. Modeling methodology and application to methyl methacrylate emulsion polymerizations. Macromolecules, 1993, 26, 3538-3552.	4.8	98
17	Modeling of termination in intermediate and high conversion free radical polymerizations. Macromolecular Chemistry and Physics, 1994, 195, 539-554.	2.2	91
18	Comparison of the Mayo and Chain Length Distribution Procedures for the Measurement of Chain Transfer Constants. Macromolecules, 1999, 32, 6019-6030.	4.8	71

#	Article	IF	Citations
19	On exact and approximate methods of calculating an overall termination rate coefficient from chain length dependent termination rate coefficients. Macromolecular Theory and Simulations, 1994, 3, 439-468.	1.4	65
20	Entry in Emulsion Polymerization:Â Effects of Initiator and Particle Surface Charge. Macromolecules, 2003, 36, 3921-3931.	4.8	59
21	The effects of chain length dependent propagation and termination on the kinetics of free-radical polymerization at low chain lengths. European Polymer Journal, 2005, 41, 225-230.	5.4	59
22	SPâ^'PLPâ^'EPR Study of Chain-Length-Dependent Termination in Free-Radical Polymerization of n-Dodecyl Methacrylate, Cyclohexyl Methacrylate, and Benzyl Methacrylate:â€‰ Evidence of â€œCompositeâ€•Behavior. Journal of Physical Chemistry A, 2006, 110, 3222-3230.	2.5	57
23	Chainâ€Ł Lengthâ€Đ ependent Termination in Radical Polymerization of Acrylates. Macromolecular Chemistry and Physics, 2011, 212, 1366-1378.	2.2	56
24	The kinetics of free radical polymerizing systems at low conversion, 1. On the rate determining step of the bimolecular termination reaction. Macromolecular Theory and Simulations, 1995, 4, 497-517.	1.4	53
25	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. Macromolecules, 1995, 28, 3637-3649.	4.8	52
26	Synthesis of latices with polystyrene cores and poly(vinyl acetate) shells. 1. Use of polystyrene seeds. Polymer, 2002, 43, 6371-6382.	3.8	51
27	Variation with pressure of the propagation rate coefficient in free-radical polymerization of methyl methacrylate. Macromolecular Rapid Communications, 1994, 15, 351-355.	3.9	49
28	Bimolecular termination events in the seeded emulsion polymerization of styrene. Macromolecules, 1990, 23, 4624-4634.	4.8	48
29	Determination of the Mode of Termination in Radical Polymerization via Mass Spectrometry. Macromolecules, 2009, 42, 652-662.	4.8	48
30	Modelling secondary particle formation in emulsion polymerisation: application to making coreâ€“shell morphologies. Polymer, 2002, 43, 4557-4570.	3.8	46
31	Molecular Weight Distributions in Free-Radical Polymerizations. 2. Low-Conversion Bulk Polymerization. Macromolecules, 1997, 30, 1935-1946.	4.8	44
32	Molecular Weight Distributions and Chain-Stopping Events in the Free-Radical Polymerization of Methyl Methacrylate. Macromolecules, 2005, 38, 3214-3224.	4.8	44
33	Kinetics of free radical solution polymerization of methyl methacrylate over an extended conversion range. Macromolecular Chemistry and Physics, 1995, 196, 2493-2516.	2.2	42
34	Rate of propagation in free-radical polymerization of methyl methacrylate in solution. Macromolecular Rapid Communications, 1994, 15, 647-653.	3.9	38
35	The kinetics of free radical polymerizing systems at low conversion, 2. On the influence of the monomer and initiator concentrations. Macromolecular Theory and Simulations, 1995, 4, 519-548.	1.4	36
36	General Solution to the Band-Broadening Problem in Polymer Molecular Weight Distributions. Australian Journal of Chemistry, 2005, 58, 178.	0.9	35

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37	New Paradigms in Free-Radical Polymerization Kinetics. Macromolecular Symposia, 2005, 226, 133-146.	0.7	35
38	Termination Rate Coefficients for Radical Homopolymerization of Methyl Methacrylate and Styrene at Low Conversion. Macromolecular Chemistry and Physics, 2010, 211, 563-579.	2.2	34
39	Pulsed-laser polymerization-gel permeation chromatographic determination of the propagation-rate coefficient for the methyl acrylate dimer: A sterically hindered monomer. Journal of Polymer Science Part A, 2001, 39, 3902-3915.	2.3	33
40	The kinetics of free radical polymerizing systems at low conversion, 3. On the variation of the termination rate coefficient with monomer and with temperature. Macromolecular Theory and Simulations, 1995, 4, 549-576.	1.4	32
41	The Importance of Chain-Length Dependent Kinetics in Free-Radical Polymerization: A Preliminary Guide. Macromolecular Symposia, 2007, 248, 12-22.	0.7	29
42	Diffusion controlled copolymerization kinetics. Die Makromolekulare Chemie Theory and Simulations, 1993, 2, 95-128.	1.0	27
43	Synthesis of latices with hydrophobic cores and poly(vinyl acetate) shells. 2. Use of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.8	27
44	Theoretical Validation of Single-Pulse Pulsed-Laser Polymerization as a Method for Investigating Chain-Length-Dependent Termination. Zeitschrift Fur Physikalische Chemie, 2005, 219, 295-323.	2.8	27
45	Evaluation of latex adhesives containing hydrophobic cores and poly(vinyl acetate) shells: potential to improve poly(vinyl acetate) performance. International Journal of Adhesion and Adhesives, 2005, 25, 127-137.	2.9	27
46	Critically Evaluated Rate Coefficients in Radical Polymerization â€“ 8. Propagation Rate Coefficients for Vinyl Acetate in Bulk. Macromolecular Chemistry and Physics, 2017, 218, 1600357.	2.2	24
47	Effect of photoinitiator on the molar mass distribution obtained from a pulsed laser polymerization. Macromolecular Rapid Communications, 1995, 16, 425-434.	3.9	23
48	Viscosity effects in cobaloxime-mediated catalytic chain-transfer polymerization of methacrylates. Journal of Polymer Science Part A, 2002, 40, 782-792.	2.3	22
49	Update and critical reanalysis of IUPAC benchmark propagation rate coefficient data. Polymer Chemistry, 2022, 13, 1891-1900.	3.9	22
50	The dissociation rate coefficient of persulfate in emulsion polymerization systems. Polymer, 2006, 47, 4667-4675.	3.8	21
51	Effects of Chain Transfer Agent and Temperature on Branching and Î²â€Scission in Radical Polymerization of 2â€Ethylhexyl Acrylate. Macromolecular Chemistry and Physics, 2018, 219, 1700579.	2.2	19
52	Singleâ€pulse pulsed laser polymerizationâ€“electron paramagnetic resonance investigations into the termination kinetics of nâ€butyl acrylate macromonomers. Journal of Polymer Science Part A, 2012, 50, 4740-4748.	2.3	16
53	Further Effects of Chain-Length-Dependent Reactivities on Radical Polymerization Kinetics. Australian Journal of Chemistry, 2007, 60, 754.	0.9	15
54	Visible Light Pulsed-OPO-Laser Polymerization at 450 nm Employing a Bis(acylphosphine oxide) Photoinitiator. Macromolecules, 1998, 31, 1763-1772.	4.8	14

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55	The Cutthroat Competition Between Termination and Transfer to Shape the Kinetics of Radical Polymerization. Macromolecular Symposia, 2007, 248, 1-11.	0.7	14
56	The Impact of Band Broadening on Molarâ€Mass Determination of Narrowâ€Distribution Polymer by Sizeâ€Exclusion Chromatography. Macromolecular Theory and Simulations, 2011, 20, 667-674.	1.4	14
57	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
58	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
59	Highâ€conversion emulsion, dispersion and suspension polymerization. Makromolekulare Chemie Macromolecular Symposia, 1990, 35-36, 1-12.	0.6	11
60	The signal-to-noise issue in mass spectrometric analysis of polymers. Polymer Chemistry, 2021, 12, 4451-4461.	3.9	11
61	Reconsidering terms for mechanisms of polymer growth: the â€œstep-growthâ€• and â€œchain-growthâ€• dilemma. Polymer Chemistry, 2022, 13, 2262-2270.	3.9	11
62	Initiator Feeding Policies in Semi-Batch Free Radical Polymerization: A Monte Carlo Study. Processes, 2020, 8, 1291.	2.8	10
63	Investigations Into Chainâ€Lengthâ€Dependent Termination in Bulk Radical Polymerization of 1H, 1H, 2H, 2Hâ€Tridecafluorooctyl Methacrylate. Macromolecular Chemistry and Physics, 2012, 213, 19-28.	2.2	8
64	A machine-readable online database for rate coefficients in radical polymerization. Polymer Chemistry, 2021, 12, 3688-3692.	3.9	7
65	Model Discrimination of Radical Desorption Kinetics in Emulsion Polymerisation. Macromolecular Theory and Simulations, 2011, 20, 425-432.	1.4	5
66	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
67	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
68	When Harry Met Sally: Polymer Chemistry Meets Biomaterials. Australian Journal of Chemistry, 2006, 59, 477.	0.9	4
69	Real and Apparent Sources of Polydispersity in Molecular Weight Distributions from Radical Polymerization. ACS Symposium Series, 2009, , 15-31.	0.5	2
70	The Contribution of IUPAC to Polymer Science Education. Journal of Chemical Education, 2017, 94, 1618-1628.	2.3	2
71	The contributions of <scp>Prof. Kenneth F. O'Driscoll</scp> to radical copolymerization kinetics. Canadian Journal of Chemical Engineering, 2022, 100, 680-688.	1.7	2
72	Critically evaluated rate coefficients for free-radical polymerization, 3. Propagation rate coefficients for alkyl methacrylates. , 2000, 201, 1355.		2

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73	Critically evaluated rate coefficients for free-radical polymerization, 3. Propagation rate coefficients for alkyl methacrylates. , 2000, 201, 1355.		1
74	The Importance of Chain-Length Dependent Kinetics in Free-Radical Polymerization: A Preliminary Guide. , 0, , 12-22.		0
75	Effect of cyclodextrin on the Î³-radiolysis initiated emulsion polymerization of styrene. Polymer, 2014, 55, 4447-4458.	3.8	0
76	Modeling of Polymerization Kinetics and Processesâ€"from Voting to Toting. Chemistry International, 2017, 39, .	0.3	0
77	List of keywords for polymer science (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 997-1027.	1.9	0
78	Macromolecular Science Turns 100. Chemistry International, 2021, 43, 4-9.	0.3	0
79	The Cutthroat Competition Between Termination and Transfer to Shape the Kinetics of Radical Polymerization. , 0, , 1-11.		0