

Robert G Gilbert

List of Publications by Year in descending order

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431
papers

24,251
citations

7069

78
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12910

131
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docs citations

440
times ranked

9849
citing authors

#	ARTICLE	IF	CITATIONS
1	Critically evaluated rate coefficients for free-radical polymerization, 1. Propagation rate coefficient for styrene. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3267-3280.	1.1	617
2	Ab Initio Emulsion Polymerization by RAFT-Controlled Self-Assembly. <i>Macromolecules</i> , 2005, 38, 2191-2204.	2.2	592
3	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.	1.1	524
4	Structure and physicochemical properties of octenyl succinic anhydride modified starches: A review. <i>Carbohydrate Polymers</i> , 2013, 92, 905-920.	5.1	484
5	Effective ab Initio Emulsion Polymerization under RAFT Control. <i>Macromolecules</i> , 2002, 35, 9243-9245.	2.2	394
6	The importance of amylose and amylopectin fine structure for textural properties of cooked rice grains. <i>Food Chemistry</i> , 2016, 196, 702-711.	4.2	363
7	Critically Evaluated Rate Coefficients for Free-Radical Polymerization, 5,. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 2151-2160.	1.1	360
8	Emulsion polymerization: State of the art in kinetics and mechanisms. <i>Polymer</i> , 2007, 48, 6965-6991.	1.8	350
9	Molecular Weight Characterization of Poly(N-isopropylacrylamide) Prepared by Living Free-Radical Polymerization. <i>Macromolecules</i> , 2000, 33, 6738-6745.	2.2	331
10	Entry of free radicals into latex particles in emulsion polymerization. <i>Macromolecules</i> , 1991, 24, 1629-1640.	2.2	308
11	Characterization of Starch by Size-Exclusion Chromatography: The Limitations Imposed by Shear Scission. <i>Biomacromolecules</i> , 2009, 10, 2245-2253.	2.6	308
12	Digestion of starch: In vivo and in vitro kinetic models used to characterise oligosaccharide or glucose release. <i>Carbohydrate Polymers</i> , 2010, 80, 599-617.	5.1	296
13	The importance of amylose and amylopectin fine structures for starch digestibility in cooked rice grains. <i>Food Chemistry</i> , 2013, 136, 742-749.	4.2	287
14	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.	1.1	274
15	Synthesis of Anisotropic Nanoparticles by Seeded Emulsion Polymerization. <i>Langmuir</i> , 2006, 22, 4037-4043.	1.6	263
16	Mechanism of Degradation of Starch, a Highly Branched Polymer, during Extrusion. <i>Macromolecules</i> , 2010, 43, 2855-2864.	2.2	227
17	Effect of particle size on kinetics of starch digestion in milled barley and sorghum grains by porcine alpha-amylase. <i>Journal of Cereal Science</i> , 2009, 50, 198-204.	1.8	218
18	Molecular Weight Distributions in Free-Radical Polymerizations. 1. Model Development and Implications for Data Interpretation. <i>Macromolecules</i> , 1995, 28, 552-569.	2.2	215

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19	Characterization of branched polysaccharides using multiple-detection size separation techniques. <i>Journal of Separation Science</i> , 2010, 33, 3537-3554.	1.3	212
20	A Priori Prediction of Propagation Rate Coefficients in Free-Radical Polymerizations: Propagation of Ethylene. <i>Macromolecules</i> , 1995, 28, 8771-8781.	2.2	205
21	Amylose content in starches: Toward optimal definition and validating experimental methods. <i>Carbohydrate Polymers</i> , 2012, 88, 103-111.	5.1	196
22	Combined techniques for characterising pasta structure reveals how the gluten network slows enzymic digestion rate. <i>Food Chemistry</i> , 2015, 188, 559-568.	4.2	189
23	Coagulative nucleation and particle size distributions in emulsion polymerization. <i>Macromolecules</i> , 1984, 17, 2520-2529.	2.2	186
24	Starch molecular structure: The basis for an improved understanding of cooked rice texture. <i>Carbohydrate Polymers</i> , 2018, 195, 9-17.	5.1	182
25	Trajectory simulations of collisional energy transfer in highly excited benzene and hexafluorobenzene. <i>Journal of Chemical Physics</i> , 1995, 103, 626-641.	1.2	180
26	Critically Evaluated Termination Rate Coefficients for Free-Radical Polymerization, 1. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 2570-2582.	1.1	178
27	New ¹ H NMR Procedure for the Characterization of Native and Modified Food-Grade Starches. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 6913-6919.	2.4	169
28	Exploring extraction/dissolution procedures for analysis of starch chain-length distributions. <i>Carbohydrate Polymers</i> , 2014, 114, 36-42.	5.1	169
29	How amylose molecular fine structure of rice starch affects functional properties. <i>Carbohydrate Polymers</i> , 2019, 204, 24-31.	5.1	167
30	Seeded emulsion polymerization of styrene. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1980, 76, 1323.	1.0	164
31	Termination in free-radical polymerizing systems at high conversion. <i>Macromolecules</i> , 1988, 21, 2133-2140.	2.2	161
32	Two-Dimensional Size/Branch Length Distributions of a Branched Polymer. <i>Macromolecules</i> , 2010, 43, 7321-7329.	2.2	159
33	Classical trajectory studies of the reaction CH ₄ +H ⁺ CH ₃ +H ₂ . <i>Journal of Chemical Physics</i> , 1995, 102, 5669-5682.	1.2	157
34	Successful Use of RAFT Techniques in Seeded Emulsion Polymerization of Styrene: Living Character, RAFT Agent Transport, and Rate of Polymerization. <i>Macromolecules</i> , 2002, 35, 5417-5425.	2.2	155
35	Chain-length-dependent termination rate processes in free-radical polymerizations. 1. Theory. <i>Macromolecules</i> , 1992, 25, 2459-2469.	2.2	153
36	Milling of Rice Grains. The Degradation on Three Structural Levels of Starch in Rice Flour Can Be Independently Controlled during Grinding. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 3964-3973.	2.4	144

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37	Kinetics of emulsion polymerization of methyl methacrylate. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1984, 22, 3225-3253.	0.8	140
38	Pulsed-Laser Polymerization Measurements of the Propagation Rate Coefficient for Butyl Acrylate. <i>Macromolecules</i> , 1996, 29, 1918-1927.	2.2	140
39	Surfactant-free emulsion polymerizations: predictions of the coagulative nucleation theory. <i>Macromolecules</i> , 1987, 20, 2922-2930.	2.2	139
40	Measurement of Transfer Constant for Butyl Acrylate Free-Radical Polymerization. <i>Macromolecules</i> , 1998, 31, 4410-4418.	2.2	139
41	Physicochemical and structural properties of pregelatinized starch prepared by improved extrusion cooking technology. <i>Carbohydrate Polymers</i> , 2017, 175, 265-272.	5.1	138
42	The mechanisms of latex particle formation and growth in the emulsion polymerization of styrene using the surfactant sodium dodecyl sulfate. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1983, 21, 269-291.	0.8	137
43	Distribution of short to medium amylose chains are major controllers of in vitro digestion of retrograded rice starch. <i>Food Hydrocolloids</i> , 2019, 96, 634-643.	5.6	137
44	Variation in Amylose Fine Structure of Starches from Different Botanical Sources. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 4443-4453.	2.4	134
45	Critically Evaluated Rate Coefficients for Free-Radical Polymerization, 4. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1338-1350.	1.1	130
46	Initiator efficiencies in high-conversion bulk polymerizations. <i>Macromolecules</i> , 1988, 21, 2141-2148.	2.2	127
47	In Vivo and In Vitro Starch Digestion: Are Current in Vitro Techniques Adequate?. <i>Biomacromolecules</i> , 2010, 11, 3600-3608.	2.6	127
48	Reliable measurements of the size distributions of starch molecules in solution: Current dilemmas and recommendations. <i>Carbohydrate Polymers</i> , 2010, 79, 255-261.	5.1	126
49	A Parameterized Model of Amylopectin Synthesis Provides Key Insights into the Synthesis of Granular Starch. <i>PLoS ONE</i> , 2013, 8, e65768.	1.1	126
50	Relations between Molecular, Crystalline, and Lamellar Structures of Amylopectin. <i>Biomacromolecules</i> , 2012, 13, 4273-4282.	2.6	124
51	Controlled Radical Polymerization in Aqueous Dispersed Media. <i>Australian Journal of Chemistry</i> , 2006, 59, 693.	0.5	123
52	Modelling particle size distributions and secondary particle formation in emulsion polymerisation. <i>Polymer</i> , 1998, 39, 7099-7112.	1.8	119
53	The adsorption of α -amylase on barley proteins affects the in vitro digestion of starch in barley flour. <i>Food Chemistry</i> , 2018, 241, 493-501.	4.2	118
54	High-amylose rice: Starch molecular structural features controlling cooked rice texture and preference. <i>Carbohydrate Polymers</i> , 2019, 219, 251-260.	5.1	117

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55	Measurement of Diffusion Coefficients of Oligomeric Penetrants in Rubbery Polymer Matrixes. <i>Macromolecules</i> , 1998, 31, 7835-7844.	2.2	110
56	Molecular Weight and Functional End Group Control by RAFT Polymerization of a Bisubstituted Acrylamide Derivative. <i>Macromolecules</i> , 2003, 36, 621-629.	2.2	110
57	Mechanistic Information from Analysis of Molecular Weight Distributions of Starch. <i>Biomacromolecules</i> , 2005, 6, 2248-2259.	2.6	109
58	Shear degradation of molecular, crystalline, and granular structures of starch during extrusion. <i>Starch/Staerke</i> , 2014, 66, 595-605.	1.1	109
59	Instrumental measurement of cooked rice texture by dynamic rheological testing and its relation to the fine structure of rice starch. <i>Carbohydrate Polymers</i> , 2016, 146, 253-263.	5.1	108
60	The Direct Determination of Kinetic Parameters in Emulsion Polymerization Systems. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1983, 23, 127-186.	2.2	106
61	Relationships between amylopectin molecular structures and functional properties of different-sized fractions of normal and high-amylose maize starches. <i>Food Hydrocolloids</i> , 2016, 52, 359-368.	5.6	105
62	The molecular structural features controlling stickiness in cooked rice, a major palatability determinant. <i>Scientific Reports</i> , 2017, 7, 43713.	1.6	101
63	Propagation rate coefficients from electron spin resonance studies of the emulsion polymerization of methyl methacrylate. <i>Macromolecules</i> , 1986, 19, 1303-1308.	2.2	98
64	Mathematical modeling of emulsion copolymerization reactors. <i>Journal of Applied Polymer Science</i> , 1989, 37, 2727-2756.	1.3	98
65	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.	2.2	98
66	Determination of Arrhenius Parameters for Propagation in Free-Radical Polymerizations: An Assessment of ab Initio Procedures. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18997-19006.	2.9	95
67	Measurement of the Molecular Weight Distribution of Debranched Starch. <i>Biomacromolecules</i> , 2005, 6, 2260-2270.	2.6	94
68	Molecular Weight Distributions of Starch Branches Reveal Genetic Constraints on Biosynthesis. <i>Biomacromolecules</i> , 2010, 11, 3539-3547.	2.6	94
69	Theory of Multiple-Detection Size-Exclusion Chromatography of Complex Branched Polymers. <i>Macromolecular Theory and Simulations</i> , 2007, 16, 13-28.	0.6	93
70	Assessment of the Extent of Starch Dissolution in Dimethyl Sulfoxide by ¹ H NMR Spectroscopy. <i>Macromolecular Bioscience</i> , 2009, 9, 506-514.	2.1	91
71	Dendrobium officinale polysaccharide ameliorates diabetic hepatic glucose metabolism via glucagon-mediated signaling pathways and modifying liver-glycogen structure. <i>Journal of Ethnopharmacology</i> , 2020, 248, 112308.	2.0	91
72	Improved methodology for analyzing relations between starch digestion kinetics and molecular structure. <i>Food Chemistry</i> , 2018, 264, 284-292.	4.2	87

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73	Using starch molecular fine structure to understand biosynthesis-structure-property relations. Trends in Food Science and Technology, 2019, 86, 530-536.	7.8	86
74	Parameterizing amylose chain-length distributions for biosynthesis-structure-property relations. Analytical and Bioanalytical Chemistry, 2017, 409, 6813-6819.	1.9	84
75	Relationships between protein content, starch molecular structure and grain size in barley. Carbohydrate Polymers, 2017, 155, 271-279.	5.1	84
76	Synthesis and properties of composites of starch and chemically modified natural rubber. Polymer, 2004, 45, 7813-7820.	1.8	83
77	Pulsed laser polymerization study of the propagation kinetics of acrylamide in water. Journal of Polymer Science Part A, 2005, 43, 1357-1368.	2.5	83
78	A Kinetic Investigation of Seeded Emulsion Polymerization of Styrene Using Reversible Addition- β -Fragmentation Chain Transfer (RAFT) Agents with a Low Transfer Constant. Macromolecules, 2003, 36, 4309-4318.	2.2	82
79	Improved Methods for the Structural Analysis of the Amylose-Rich Fraction from Rice Flour. Biomacromolecules, 2006, 7, 866-876.	2.6	81
80	Angular momentum conservation in unimolecular and recombination reactions. International Journal of Chemical Kinetics, 1988, 20, 307-329.	1.0	79
81	Fokker-Planck interpretation of picosecond intramolecular dynamics in solutions. Chemical Physics, 1979, 44, 389-402.	0.9	78
82	Starch Digestion Mechanistic Information from the Time Evolution of Molecular Size Distributions. Journal of Agricultural and Food Chemistry, 2010, 58, 8444-8452.	2.4	78
83	Chain Transfer to Monomer in the Free-Radical Polymerizations of Methyl Methacrylate, Styrene, and $\hat{I}\pm$ -Methylstyrene. Macromolecules, 1998, 31, 994-999.	2.2	77
84	Separation of complex branched polymers by size-exclusion chromatography probed with multiple detection. Journal of Chromatography A, 2008, 1190, 215-223.	1.8	77
85	The biosynthesis, structure and gelatinization properties of starches from wild and cultivated African rice species (<i>Oryza barthii</i> and <i>Oryza glaberrima</i>). Carbohydrate Polymers, 2015, 129, 92-100.	5.1	75
86	Compact structure and proteins of pasta retard in vitro digestive evolution of branched starch molecular structure. Carbohydrate Polymers, 2016, 152, 441-449.	5.1	75
87	Altering starch branching enzymes in wheat generates high-amylose starch with novel molecular structure and functional properties. Food Hydrocolloids, 2019, 92, 51-59.	5.6	75
88	Trajectory simulations of collisional energy transfer of highly vibrationally excited azulene. The Journal of Physical Chemistry, 1990, 94, 77-84.	2.9	74
89	Nature of $\hat{I}\pm$ and \hat{I}^2 Particles in Glycogen Using Molecular Size Distributions. Biomacromolecules, 2010, 11, 1094-1100.	2.6	72
90	Effects of pectin on molecular structural changes in starch during digestion. Food Hydrocolloids, 2017, 69, 10-18.	5.6	72

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91	Electrosteric Stabilization with Poly(Acrylic) Acid in Emulsion Polymerization: Effect on Kinetics and Secondary Particle Formation. <i>Macromolecules</i> , 2000, 33, 6693-6703.	2.2	71
92	Effect of surfactants used for binder synthesis on the properties of latex paints. <i>Progress in Organic Coatings</i> , 2005, 53, 112-118.	1.9	70
93	Relaxation studies of the seeded emulsion polymerization of styrene initiated by ^{13}I -radiolysis. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1980, 76, 1344.	1.0	68
94	Penultimate Unit Effect in Free-Radical Copolymerization. <i>Macromolecules</i> , 1997, 30, 726-736.	2.2	68
95	Mechanistic Investigation of a Starch-Branching Enzyme Using Hydrodynamic Volume SEC Analysis. <i>Biomacromolecules</i> , 2008, 9, 954-965.	2.6	67
96	Effects of Poly(acrylic acid) Electrosteric Stabilizer on Entry and Exit in Emulsion Polymerization. <i>Macromolecules</i> , 1996, 29, 5128-5135.	2.2	66
97	The relationship between recombination, chemical activation and unimolecular dissociation rate coefficients. <i>Journal of Chemical Physics</i> , 1989, 90, 4265-4273.	1.2	64
98	Molecular weight distribution in emulsion polymerizations. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1980, 18, 1297-1323.	0.8	63
99	Calculation of collisional-energy-transfer rates in highly excited molecules. <i>The Journal of Physical Chemistry</i> , 1990, 94, 72-77.	2.9	63
100	Diffusion and viscosity in arabinoxylan solutions: Implications for nutrition. <i>Carbohydrate Polymers</i> , 2010, 82, 46-53.	5.1	63
101	Molecular Watchmaking: ab initio Emulsion Polymerization by RAFT-controlled Self-assembly. <i>Macromolecular Symposia</i> , 2005, 231, 84-93.	0.4	62
102	Collisional energy exchange in highly vibrationally excited molecules: The biased random walk model. <i>Journal of Chemical Physics</i> , 1984, 80, 5501-5509.	1.2	61
103	Supercollision events in weak collisional energy transfer of highly excited species. <i>Chemical Physics Letters</i> , 1991, 182, 357-362.	1.2	61
104	Diffusion of oligomeric species in polymer solutions. <i>Macromolecules</i> , 1993, 26, 4472-4477.	2.2	61
105	Modification of Natural Rubber by Grafting with Hydrophilic Vinyl Monomers. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 2450-2460.	1.1	61
106	Radical Loss in RAFT-Mediated Emulsion Polymerizations. <i>Macromolecules</i> , 2005, 38, 4901-4912.	2.2	61
107	High-amylose wheat starch: Structural basis for water absorption and pasting properties. <i>Carbohydrate Polymers</i> , 2020, 245, 116557.	5.1	61
108	Entry in Emulsion Polymerization: Effects of Initiator and Particle Surface Charge. <i>Macromolecules</i> , 2003, 36, 3921-3931.	2.2	59

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109	What Is Being Learned About Starch Properties from Multiple-Level Characterization. <i>Cereal Chemistry</i> , 2013, 90, 312-325.	1.1	59
110	Roles of GBSSI and SSIIa in determining amylose fine structure. <i>Carbohydrate Polymers</i> , 2015, 127, 264-274.	5.1	59
111	The a priori calculation of collisional energy transfer in highly vibrationally excited molecules: The biased random walk model. <i>Journal of Chemical Physics</i> , 1986, 84, 6129-6140.	1.2	58
112	Propagation rate coefficient of acrylic acid: theoretical investigation of the solvent effect. <i>Polymer</i> , 2004, 45, 6993-6999.	1.8	57
113	First-principles calculation of particle formation in emulsion polymerization: pseudo-bulk systems. <i>Polymer</i> , 2004, 45, 3595-3608.	1.8	56
114	Characterization Methods for Starch-Based Materials: State of the Art and Perspectives. <i>Australian Journal of Chemistry</i> , 2013, 66, 1550.	0.5	56
115	Effect of pulsed electrical fields on the structural properties that affect french fry texture during processing. <i>Trends in Food Science and Technology</i> , 2017, 67, 1-11.	7.8	56
116	Modeling collisional energy transfer in highly excited molecules. <i>Journal of Chemical Physics</i> , 1990, 92, 1819-1830.	1.2	55
117	Synthesis of Comblike Poly(butyl methacrylate) Using Reversible Addition-Fragmentation Chain Transfer and an Activated Ester. <i>Macromolecules</i> , 2004, 37, 2371-2382.	2.2	55
118	Free radical exit in emulsion polymerization. I. Theoretical model. <i>Journal of Polymer Science Part A</i> , 1994, 32, 605-630.	2.5	54
119	Modification of Natural and Artificial Polymer Colloids by Topology-Controlled Emulsion Polymerization. <i>Biomacromolecules</i> , 2001, 2, 518-525.	2.6	54
120	Biodegradation of starch films: The roles of molecular and crystalline structure. <i>Carbohydrate Polymers</i> , 2015, 122, 115-122.	5.1	54
121	Solvent effects on the propagation rate coefficient for free radical polymerization. <i>Macromolecules</i> , 1993, 26, 4368-4372.	2.2	53
122	A more general approach to fitting digestion kinetics of starch in food. <i>Carbohydrate Polymers</i> , 2019, 225, 115244.	5.1	53
123	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.	2.2	52
124	A Theoretical Study of Propagation Rate Coefficients for Methacrylonitrile and Acrylonitrile. <i>Macromolecules</i> , 1998, 31, 5175-5187.	2.2	52
125	Fecal microbiota responses to rice RS3 are specific to amylose molecular structure. <i>Carbohydrate Polymers</i> , 2020, 243, 116475.	5.1	52
126	Entry rate coefficients in emulsion polymerization systems. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986, 82, 2247.	1.0	51

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127	Kinetics of particle growth in emulsion polymerization systems with surface-active initiators. <i>Macromolecules</i> , 1992, 25, 7043-7050.	2.2	51
128	Synthesis of latices with polystyrene cores and poly(vinyl acetate) shells. 1. Use of polystyrene seeds. <i>Polymer</i> , 2002, 43, 6371-6382.	1.8	51
129	Effect of a gibberellin-biosynthesis inhibitor treatment on the physicochemical properties of sorghum starch. <i>Journal of Cereal Science</i> , 2011, 53, 328-334.	1.8	51
130	Free radical exit in emulsion polymerization. II. Model discrimination via experiment. <i>Journal of Polymer Science Part A</i> , 1994, 32, 631-649.	2.5	50
131	Kinetic aspects of the emulsion polymerization of butadiene. <i>Macromolecules</i> , 1991, 24, 1622-1628.	2.2	49
132	Effect of surfactant systems on the water sensitivity of latex films. <i>Journal of Applied Polymer Science</i> , 2004, 92, 1813-1823.	1.3	49
133	Causal Relations Among Starch Biosynthesis, Structure, and Properties. <i>Springer Science Reviews</i> , 2014, 2, 15-33.	1.3	49
134	The role of thermostable proteinaceous α -amylase inhibitors in slowing starch digestion in pasta. <i>Food Hydrocolloids</i> , 2019, 90, 241-247.	5.6	49
135	Gas/gas and gas/wall average energy transfer from very low-pressure pyrolysis. <i>Chemical Physics</i> , 1980, 49, 367-375.	0.9	48
136	Bimolecular termination events in the seeded emulsion polymerization of styrene. <i>Macromolecules</i> , 1990, 23, 4624-4634.	2.2	48
137	Theory of collisional energy transfer of highly excited molecules. <i>International Reviews in Physical Chemistry</i> , 1991, 10, 319-347.	0.9	48
138	Collisional energy transfer in highly excited molecules: Calculations of the dependence on temperature and internal, rotational, and translational energy. <i>Journal of Chemical Physics</i> , 1992, 96, 5983-5998.	1.2	48
139	The role of aqueous-phase kinetics in emulsion polymerizations. <i>Progress in Polymer Science</i> , 1993, 18, 1041-1096.	11.8	48
140	Catalytic chain transfer for molecular weight control in the emulsion homo- and copolymerizations of methyl methacrylate and butyl methacrylate. <i>Journal of Polymer Science Part A</i> , 1997, 35, 859-878.	2.5	48
141	Size-separation characterization of starch and glycogen for biosynthesisâ€“structureâ€“property relationships. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1425-1438.	1.9	48
142	Mechanistic understanding of the relationships between molecular structure and emulsification properties of octenyl succinic anhydride (OSA) modified starches. <i>Food Hydrocolloids</i> , 2018, 74, 168-175.	5.6	48
143	Relations between changes in starch molecular fine structure and in thermal properties during rice grain storage. <i>Food Chemistry</i> , 2019, 295, 484-492.	4.2	48
144	Termination-rate coefficients in methyl methacrylate polymerizations. <i>Journal of Polymer Science Part A</i> , 1986, 24, 1027-1041.	2.5	47

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145	Pulsed laser study of the propagation kinetics of acrylamide and its derivatives in water. <i>Macromolecules</i> , 1993, 26, 4572-4576.	2.2	47
146	The influence of macromolecular architecture on the critical aggregation concentration of large amphiphilic starch derivatives. <i>Food Hydrocolloids</i> , 2013, 31, 365-374.	5.6	47
147	Modelling secondary particle formation in emulsion polymerisation: application to making core-shell morphologies. <i>Polymer</i> , 2002, 43, 4557-4570.	1.8	46
148	Molecular structure of glycogen in diabetic liver. <i>Glycoconjugate Journal</i> , 2015, 32, 113-118.	1.4	46
149	SEC Analysis of Poly(Acrylic Acid) and Poly(Methacrylic Acid). <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 23-37.	1.1	46
150	Diffusion and rheology characteristics of barley mixed linkage β -glucan and possible implications for digestion. <i>Carbohydrate Polymers</i> , 2011, 86, 1732-1738.	5.1	45
151	Changes in Glycogen Structure over Feeding Cycle Sheds New Light on Blood-Glucose Control. <i>Biomacromolecules</i> , 2014, 15, 660-665.	2.6	45
152	New insights into amylose and amylopectin biosynthesis in rice endosperm. <i>Carbohydrate Polymers</i> , 2020, 230, 115656.	5.1	45
153	Pulsed laser study of the propagation kinetics of acrylamide and methacrylamide in water. <i>Macromolecules</i> , 1990, 23, 5161-5163.	2.2	44
154	Transfer constants from complete molecular weight distributions. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 403-412.	1.1	44
155	Molecular Weight Distributions in Free-Radical Polymerizations. 2. Low-Conversion Bulk Polymerization. <i>Macromolecules</i> , 1997, 30, 1935-1946.	2.2	44
156	Molecular Weight Distributions and Chain-Stopping Events in the Free-Radical Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2005, 38, 3214-3224.	2.2	44
157	Rate Optimization in Controlled Radical Emulsion Polymerization Using RAFT. <i>Macromolecular Theory and Simulations</i> , 2006, 15, 70-86.	0.6	44
158	The effects of the chain-length distributions of starch molecules on rheological and thermal properties of wheat flour paste. <i>Food Hydrocolloids</i> , 2020, 101, 105563.	5.6	44
159	Acid Hydrolysis and Molecular Density of Phytoglycogen and Liver Glycogen Helps Understand the Bonding in Glycogen β (Composite) Particles. <i>PLoS ONE</i> , 2015, 10, e0121337.	1.1	44
160	Emulsion polymerization of butyl acrylate. Kinetics of particle growth. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987, 83, 1449.	1.0	43
161	Effect of branching and molecular weight on the viscoelastic properties of poly(butyl acrylate). <i>Journal of Polymer Science Part A</i> , 2002, 40, 3335-3349.	2.5	43
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