Graeme Moad

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263 papers	27,742 citations	71 h-index	164 g-index
287 ext. papers	29,798 ext. citations	4.6 avg, IF	7.31 L-index

#	Paper	IF	Citations
263	Living Free-Radical Polymerization by Reversible Addition–Fragmentation Chain Transfer: The RAFT Process. *Macromolecules*, **1998**, 31, 5559-5562	5.5	4221
262	Living Radical Polymerization by the RAFT Process. *Australian Journal of Chemistry*, **2005**, 58, 379	1.2	1960
261	Radical addition–fragmentation chemistry in polymer synthesis. *Polymer*, **2008**, 49, 1079-1131	3.9	1188
260	Living Radical Polymerization by the RAFT Process - A Second Update. *Australian Journal of Chemistry*, **2009**, 62, 1402	1.2	813
259	Living Radical Polymerization by the RAFT Process—A First Update. *Australian Journal of Chemistry*, **2006**, 59, 669	1.2	802
258	Living Radical Polymerization by the RAFT Process – A Third Update. *Australian Journal of Chemistry* , **2012**, 65, 985	1.2	798
257	A More Versatile Route to Block Copolymers and Other Polymers of Complex Architecture by Living Radical Polymerization: The RAFT Process. *Macromolecules*, **1999**, 32, 2071-2074	5.5	761
256	Living free radical polymerization with reversible addition – fragmentation chain transfer (the life of RAFT). *Polymer International*, **2000**, 49, 993-1001	3.3	740
255	Thiocarbonylthio Compounds [SC(Ph)SR] in Free Radical Polymerization with Reversible Addition-Fragmentation Chain Transfer (RAFT Polymerization). Role of the Free-Radical Leaving Group (R). *Macromolecules*, **2003**, 36, 2256-2272	5.5	713
254	Advances in RAFT polymerization: the synthesis of polymers with defined end-groups. *Polymer*, **2005**, 46, 8458-8468	3.9	661
253	Toward living radical polymerization. *Accounts of Chemical Research*, **2008**, 41, 1133-42	24.3	607
252	Thiocarbonylthio Compounds (SC(Z)SR) in Free Radical Polymerization with Reversible Addition-Fragmentation Chain Transfer (RAFT Polymerization). Effect of the Activating Group Z. *Macromolecules*, **2003**, 36, 2273-2283	5.5	558
251	Living Radical Polymerization with Reversible Addition–Fragmentation Chain Transfer (RAFT Polymerization) Using Dithiocarbamates as Chain Transfer Agents. *Macromolecules*, **1999**, 32, 6977-6980	5.5	480
250	The synthesis of polyolefin graft copolymers by reactive extrusion. *Progress in Polymer Science*, **1999**, 24, 81-142	29.6	459
249	Terminology for reversible-deactivation radical polymerization previously called "controlled" radical or "living" radical polymerization (IUPAC Recommendations 2010). *Pure and Applied Chemistry*, **2009**, 82, 483-491	2.1	426
248	Living Polymers by the Use of Trithiocarbonates as Reversible Addition–Fragmentation Chain Transfer (RAFT) Agents: ABA Triblock Copolymers by Radical Polymerization in Two Steps. *Macromolecules*, **2000**, 33, 243-245	5.5	417
247	RAFT Agent Design and Synthesis. *Macromolecules*, **2012**, 45, 5321-5342	5.5	416

246	A novel synthesis of functional dithioesters, dithiocarbamates, xanthates and trithiocarbonates. *Tetrahedron Letters*, **1999**, 40, 2435-2438	2	414
245	Mechanism and kinetics of dithiobenzoate-mediated RAFT polymerization. I. The current situation. *Journal of Polymer Science Part A*, **2006**, 44, 5809-5831	2.5	399
244	Definitions of terms relating to the structure and processing of sols, gels, networks, and inorganic-organic hybrid materials (IUPAC Recommendations 2007). *Pure and Applied Chemistry*, **2007**, 79, 1801-1829	2.1	383
243	Mechanism and Kinetics of RAFT-Based Living Radical Polymerizations of Styrene and Methyl Methacrylate. *Macromolecules*, **2001**, 34, 402-408	5.5	293
242	Alkoxyamine-Initiated Living Radical Polymerization: Factors Affecting Alkoxyamine Homolysis Rates. *Macromolecules*, **1995**, 28, 8722-8728	5.5	288
241	Living Free Radical Polymerization with Reversible Addition–Fragmentation Chain Transfer (RAFT Polymerization): Approaches to Star Polymers. *Macromolecules*, **2003**, 36, 1505-1513	5.5	284
240	Universal (switchable) RAFT agents. *Journal of the American Chemical Society*, **2009**, 131, 6914-5	16.4	256
239	End-functional polymers, thiocarbonylthio group removal/transformation and reversible addition–fragmentation–chain transfer (RAFT) polymerization. *Polymer International*, **2011**, 60, 9-25	3.3	238
238	Reversible-deactivation radical polymerization (Controlled/living radical polymerization): From discovery to materials design and applications. *Progress in Polymer Science*, **2020**, 111, 101311	29.6	223
237	RAFT polymerization and some of its applications. *Chemistry - an Asian Journal*, **2013**, 8, 1634-44	4.5	219
236	RAFT polymerization to form stimuli-responsive polymers. *Polymer Chemistry*, **2017**, 8, 177-219	4.9	218
235	Thiocarbonylthio End Group Removal from RAFT-Synthesized Polymers by Radical-Induced Reduction. *Macromolecules*, **2007**, 40, 4446-4455	5.5	198
234	Selectivity of the reaction of free radicals with styrene. *Macromolecules*, **1982**, 15, 909-914	5.5	190
233	RAFT Polymerization with Phthalimidomethyl Trithiocarbonates or Xanthates. On the Origin of Bimodal Molecular Weight Distributions in Living Radical Polymerization. *Macromolecules*, **2006**, 39, 5307-5318	5.5	178
232	Narrow Polydispersity Block Copolymers by Free-Radical Polymerization in the Presence of Macromonomers. *Macromolecules*, **1995**, 28, 5381-5385	5.5	176
231	Chemical modification of starch by reactive extrusion. *Progress in Polymer Science*, **2011**, 36, 218-237	29.6	167
230	Living Radical Polymerization with Reversible Addition–Fragmentation Chain Transfer (RAFT): Direct ESR Observation of Intermediate Radicals. *Macromolecules*, **1999**, 32, 5457-5459	5.5	161
229	Synthesis of Defined Polymers by Reversible Addition–Fragmentation Chain Transfer: The RAFT Process. *ACS Symposium Series*, **2000**, 278-296	0.4	153

228	Chain Transfer to Polymer: A Convenient Route to Macromonomers. *Macromolecules*, **1999**, 32, 7700-7702	5.5	149
227	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	2.5	148
226	Synthesis of Well-Defined Polystyrene with Primary Amine End Groups through the Use of Phthalimido-Functional RAFT Agents. *Macromolecules*, **2006**, 39, 5293-5306	5.5	144
225	Functional polymers for optoelectronic applications by RAFT polymerization. *Polymer Chemistry*, **2011**, 2, 492-519	4.9	140
224	Synthesis of novel architectures by radical polymerization with reversible addition fragmentation chain transfer (RAFT polymerization). *Macromolecular Symposia*, **2003**, 192, 1-12	0.8	137
223	Thermolysis of RAFT-Synthesized Polymers. A Convenient Method for Trithiocarbonate Group Elimination. *Macromolecules*, **2005**, 38, 5371-5374	5.5	130
222	Kinetics of the coupling reactions of the nitroxyl radical 1,1,3,3-tetramethylisoindoline-2-oxyl with carbon-centered radicals. *Journal of Organic Chemistry*, **1988**, 53, 1632-1641	4.2	129
221	Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. *Angewandte Chemie - International Edition*, **2017**, 56, 8376-8383	16.4	127
220	Tailored polymers by free radical processes. *Macromolecular Symposia*, **1999**, 143, 291-307	0.8	126
219	Definitions of terms relating to reactions of polymers and to functional polymeric materials (IUPAC Recommendations 2003). *Pure and Applied Chemistry*, **2004**, 76, 889-906	2.1	119
218	Chain Transfer Activity of Unsaturated Methyl Methacrylate Oligomers. *Macromolecules*, **1996**, 29, 7717-7726	5.5	119
217	Controlled RAFT Polymerization in a Continuous Flow Microreactor. *Organic Process Research and Development*, **2011**, 15, 593-601	3.9	114
216	Mechanism and Kinetics of Dithiobenzoate-Mediated RAFT Polymerization Status of the Dilemma. *Macromolecular Chemistry and Physics*, **2014**, 215, 9-26	2.6	108
215	The scope for synthesis of macro-RAFT agents by sequential insertion of single monomer units. *Polymer Chemistry*, **2012**, 3, 1879	4.9	106
214	Polystyrene-block-poly(vinyl acetate) through the Use of a Switchable RAFT Agent. *Macromolecules* , **2009**, 42, 9384-9386	5.5	106
213	Thermolysis of RAFT-Synthesized Poly(Methyl Methacrylate). *Australian Journal of Chemistry*, **2006**, 59, 755	1.2	104
212	Synthesis of the radical scavenger 1,1,3,3-Tetramethylisoindolin-2-yloxyl. *Australian Journal of Chemistry*, **1983**, 36, 397	1.2	95
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210	Thiocarbonylthio end group removal from RAFT-synthesized polymers by a radical-induced process. *Journal of Polymer Science Part A*, **2009**, 47, 6704-6714	2.5	89
209	The Application of Supercomputers in Modeling Chemical Reaction Kinetics: Kinetic Simulation of 'Quasi-Living' Radical Polymerization. *Australian Journal of Chemistry*, **1990**, 43, 1215	1.2	87
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207	Living polymerization: Rationale for uniform terminology **2000**, 38, 1706-1708		81
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204	Imidazolidinone Nitroxide-Mediated Polymerization. *Macromolecules*, **1999**, 32, 6895-6903	5.5	77
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202	Consistent values of rate parameters in free radical polymerization systems. *Journal of Polymer Science, Polymer Letters Edition*, **1988**, 26, 293-297		76
201	Tailored polymer architectures by reversible addition-frasmentation chain transfer. *Macromolecular Symposia*, **2001**, 174, 209-212	0.8	75
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199	Use of Chain Length Distributions in Determining Chain Transfer Constants and Termination Mechanisms. *Macromolecules*, **1996**, 29, 7727-7733	5.5	74
198	A new form of controlled growth free radical polymerization. *Macromolecular Symposia*, **1996**, 111, 13-23	0.8	73
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193	RAFT (Reversible addition–fragmentation chain transfer) crosslinking (co)polymerization of multi-olefinic monomers to form polymer networks. *Polymer International*, **2015**, 64, 15-24	3.3	71

192	RAFT Polymerization: Adding to the Picture. *Macromolecular Symposia*, **2007**, 248, 104-116	0.8	71
191	Controlled-Growth Free-Radical Polymerization of Methacrylate Esters: Reversible Chain Transfer versus Reversible Termination. *ACS Symposium Series*, **1998**, 332-360	0.4	69
190	Initiating free radical polymerization. *Macromolecular Symposia*, **2002**, 182, 65-80	0.8	67
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188	Absolute rate constants for radical-monomer reactions. *Polymer Bulletin*, **1992**, 29, 647-652	2.4	61
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186	New Free-Radical Ring-Opening Acrylate Monomers. *Macromolecules*, **1994**, 27, 7935-7937	5.5	58
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184	RAFT-mediated, visible light-initiated single unit monomer insertion and its application in the synthesis of sequence-defined polymers. *Polymer Chemistry*, **2017**, 8, 4637-4643	4.9	56
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182	Reversible addition–fragmentation chain transfer (co)polymerization of conjugated diene monomers: butadiene, isoprene and chloroprene. *Polymer International*, **2017**, 66, 26-41	3.3	50
181	Kinetics and Mechanism of RAFT Polymerization. *ACS Symposium Series*, **2003**, 520-535	0.4	50
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179	Multiarm organic compounds for use as reversible chain-transfer agents in living radical polymerizations. *Tetrahedron Letters*, **2002**, 43, 6811-6814	2	49
178	Reversible Addition Fragmentation Chain Transfer Polymerization of Methyl Methacrylate in the Presence of Lewis Acids: An Approach to Stereocontrolled Living Radical Polymerization. *Macromolecules*, **2007**, 40, 9262-9271	5.5	47
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176	A Critical Assessment of the Kinetics and Mechanism of Initiation of Radical Polymerization with Commercially Available Dialkyldiazene Initiators. *Progress in Polymer Science*, **2019**, 88, 130-188	29.6	44
175	Enhancement of MHC-I antigen presentation via architectural control of pH-responsive, endosomolytic polymer nanoparticles. *AAPS Journal*, **2015**, 17, 358-69	3.7	44

174	Porous, functional, poly(styrene-co-divinylbenzene) monoliths by RAFT polymerization. *Polymer Chemistry*, **2014**, 5, 722-732	4.9	44
173	Tacticity of Poly(Methyl Methacrylate). Evidence for a Penpenultimate Group Effect in Free-Radical Polymerization. *Australian Journal of Chemistry*, **1986**, 39, 43	1.2	44
172	An arm-first approach to cleavable mikto-arm star polymers by RAFT polymerization. *Macromolecular Rapid Communications*, **2014**, 35, 840-5	4.8	42
171	Rapid and systematic access to quasi-diblock copolymer libraries covering a comprehensive composition range by sequential RAFT polymerization in an Automated synthesizer. *Macromolecular Rapid Communications*, **2014**, 35, 492-7	4.8	42
170	Dithiocarbamate RAFT agents with broad applicability the 3,5-dimethyl-1H-pyrazole-1-carbodithioates. *Polymer Chemistry*, **2016**, 7, 481-492	4.9	41
169	Rheological properties of high melt strength poly(ethylene terephthalate) formed by reactive extrusion. *Journal of Applied Polymer Science*, **2006**, 100, 3646-3652	2.9	41
168	A Critical Survey of Dithiocarbamate Reversible Addition-Fragmentation Chain Transfer (RAFT) Agents in Radical Polymerization. *Journal of Polymer Science Part A*, **2019**, 57, 216-227	2.5	41
167	Chain Transfer Activity of Unsaturated Methacrylic Oligomers in Polymerizations of Methacrylic Monomers. *Macromolecules*, **2004**, 37, 4441-4452	5.5	40
166	Block copolymers containing organic semiconductor segments by RAFT polymerization. *Organic and Biomolecular Chemistry*, **2011**, 9, 6111-9	3.9	39
165	A simple method for determining protic end-groups of synthetic polymers by 1H NMR spectroscopy. *Polymer*, **2006**, 47, 1899-1911	3.9	39
164	Measurements of Primary Radical Concentrations Generated by Pulsed Laser Photolysis Using Fluorescence Detection. *Journal of Physical Chemistry A*, **1999**, 103, 6580-6586	2.8	39
163	Nano-Engineered Multiblock Copolymer Nanoparticles via Reversible Addition Fragmentation Chain Transfer Emulsion Polymerization. *Macromolecules*, **2019**, 52, 2965-2974	5.5	38
162	The Mechanism and Kinetics of the RAFT Process: Overview, Rates, Stabilities, Side Reactions, Product Spectrum and Outstanding Challenges51-104		38
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159	Advances in Switchable RAFT Polymerization. *Macromolecular Symposia*, **2015**, 350, 34-42	0.8	37
158	Ring-opening of some radicals containing the cyclopropylmethyl system. *Journal of the Chemical Society Perkin Transactions II*, **1980**, 1473		37
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153	The Reaction of Benzoyloxy Radicals with Styrene Implications Concerning the Structure of Polystyrene. *Journal of Macromolecular Science Part A, Chemistry*, **1982**, 17, 51-59		35
152	The reactivity of N-vinylcarbazole in RAFT polymerization: trithiocarbonates deliver optimal control for the synthesis of homopolymers and block copolymers. *Polymer Chemistry*, **2013**, 4, 3591	4.9	34
151	Approaches to phthalimido and amino end-functional polystyrene by atom transfer radical polymerisation (ATRP). *Reactive and Functional Polymers*, **2006**, 66, 137-147	4.6	34
150	New Features of the Mechanism of RAFT Polymerization. *ACS Symposium Series*, **2009**, 3-18	0.4	33
149	Influences of the initiation and termination reactions on the molecular weight distribution and compositional heterogeneity of functional copolymers: an application of Monte Carlo simulation. *Macromolecules*, **1987**, 20, 675-679	5.5	33
148	High-Throughput Process for the Discovery of Antimicrobial Polymers and Their Upscaled Production via Flow Polymerization. *Macromolecules*, **2020**, 53, 631-639	5.5	32
147	Characterization of poly(ethylene terephthalate) and poly(ethylene terephthalate) blends. *Polymer*, **1997**, 38, 3035-3043	3.9	32
146	Light-Induced RAFT Single Unit Monomer Insertion in Aqueous Solution-Toward Sequence-Controlled Polymers. *Macromolecular Rapid Communications*, **2018**, 39, e1800240	4.8	31
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144	Morphology Property relationships in ABS/PET blends. I. Compositional effects **1996**, 62, 1699-1708		31
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142	Invited Review. Understanding and Controlling Radical Polymerization. *Australian Journal of Chemistry*, **1990**, 43, 215	1.2	30
141	Novel Copolymers as Dispersants/Intercalants/Exfoliants for Polypropylene-Clay Nanocomposites. *Macromolecular Symposia*, **2006**, 233, 170-179	0.8	29
140	Weak links in polystyrene thermal degradation of polymers prepared with AIBN or benzoyl peroxide as initiator. *European Polymer Journal*, **1989**, 25, 767-777	5.2	29
139	The effect of Z-group modification on the RAFT polymerization of N-vinylpyrrolidone controlled by switchable N-pyridyl-functional dithiocarbamates. *Polymer Chemistry*, **2015**, 6, 7119-7126	4.9	28

138	A novel method for determination of polyester end-groups by NMR spectroscopy. *Polymer*, **2005**, 46, 5005-5011	3.9	28
137	Further studies on the thermal decomposition of AIBN□Implications concerning the mechanism of termination in methacrylonitrile polymerization. *European Polymer Journal*, **1993**, 29, 379-388	5.2	28
136	Thermal stability of poly(methyl methacrylate). *Polymer Bulletin*, **1988**, 20, 499-503	2.4	28
135	A Comprehensive Platform for the Design and Synthesis of Polymer Molecular Weight Distributions. *Macromolecules*, **2020**, 53, 8867-8882	5.5	28
134	Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. *Angewandte Chemie*, **2017**, 129, 8496-8503	3.6	27
133	4-Halogeno-3,5-dimethyl-1H-pyrazole-1-carbodithioates: versatile reversible addition fragmentation chain transfer agents with broad applicability. *Polymer International*, **2017**, 66, 1438-1447	3.3	26
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129	Evaluation of propagation rate constants for the free radical polymerization of methacrylonitrile by pulsed laser photolysis. *Macromolecular Rapid Communications*, **1995**, 16, 837-844	4.8	25
128	Solvent effects on the reaction of t-butoxy radicals with methyl methacrylate. *Australian Journal of Chemistry*, **1983**, 36, 2447	1.2	25
127	Preparation of 1 : 1 alternating, nucleobase-containing copolymers for use in sequence-controlled polymerization. *Polymer Chemistry*, **2015**, 6, 228-232	4.9	24
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124	Control of polymer structure by chain transfer processes. *Macromolecular Symposia*, **1996**, 111, 1-11	0.8	23
123	Kinetic data for coupling of primary alkyl radicals with a stable nitroxide. *Journal of the Chemical Society Chemical Communications*, **1986**, 1003		23
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115	Modeling the Kinetics of Monolith Formation by RAFT Copolymerization of Styrene and Divinylbenzene. *Macromolecular Reaction Engineering*, **2014**, 8, 706-722	1.5	19
114	CHAPTER 6:Fundamentals of RAFT Polymerization. *RSC Polymer Chemistry Series*, **2013**, 205-249	1.3	19
113	RAFT Copolymerization and Its Application to the Synthesis of Novel Dispersants Intercalants Exfoliants for Polymer Clay Nanocomposites. *ACS Symposium Series*, **2006**, 514-532	0.4	19
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106	Chain Length Dependence of Radical Radical Termination in Free Radical Polymerization: A Pulsed Laser Photolysis Investigation. *Macromolecules*, **2003**, 36, 2032-2040	5.5	18
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99	Preparation of Macromonomers via Chain Transfer with and without Added Chain Transfer Agent. *ACS Symposium Series*, **2000**, 297-312	0.4	16
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97	Aqueous hydrogen peroxide-induced degradation of polyolefins: A greener process for controlled-rheology polypropylene. *Polymer Degradation and Stability*, **2015**, 117, 97-108	4.7	15
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