Christopher Barner-Kowollik

List of Publications by Year
in descending order

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788 papers	37,913 citations	2538 96 h-index	9311 143 g-index
867 all docs	867 docs citations	867 times ranked	18368 citing authors

#	Article	IF	Citations
1	â€œClickingâ€•Polymers or Just Efficient Linking: What Is the Difference?. Angewandte Chemie - International Edition, 2011, 50, 60-62.	7.2	583
2	Mechanism and kinetics of dithiobenzoate-mediated RAFT polymerization. I. The current situation. Journal of Polymer Science Part A, 2006, 44, 5809-5831.	2.5	429
3	RAFTing down under: Tales of missing radicals, fancy architectures, and mysterious holes. Journal of Polymer Science Part A, 2003, 41, 365-375.	2.5	416
4	Well-Defined Proteinâ^'Polymer Conjugates via in Situ RAFT Polymerization. Journal of the American Chemical Society, 2007, 129, 7145-7154.	6.6	392
5	Origin of Inhibition Effects in the Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization of Methyl Acrylate. Macromolecules, 2002, 35, 8300-8306.	2.2	332
6	Complex Macromolecular Architectures by Reversible Addition Fragmentation Chain Transfer Chemistry: Theory and Practice. Macromolecular Rapid Communications, 2007, 28, 539-559.	2.0	329
7	50th Anniversary Perspective: Polymer Functionalization. Macromolecules, 2017, 50, 5215-5252.	2.2	318
8	Kinetic Investigations of Reversible Addition Fragmentation Chain Transfer Polymerizations:Â Cumyl Phenyldithioacetate Mediated Homopolymerizations of Styrene and Methyl Methacrylate. Macromolecules, 2001, 34, 7849-7857.	2.2	312
9	Xanthate Mediated Living Polymerization of Vinyl Acetate: A Systematic Variation in MADIX/RAFT Agent Structure. Macromolecular Chemistry and Physics, 2003, 204, 1160-1168.	1.1	312
10	Modeling the reversible addition-fragmentation chain transfer process in cumyl dithiobenzoate-mediated styrene homopolymerizations: Assessing rate coefficients for the addition-fragmentation equilibrium. Journal of Polymer Science Part A, 2001, 39, 1353-1365.	2.5	304
11	Reversible Additionâ^'Fragmentation Chain Transfer Polymerization Initiated with Ultraviolet Radiation. Macromolecules, 2002, 35, 7620-7627.	2.2	290
12	Formation of honeycomb-structured, porous films via breath figures with different polymer architectures. Journal of Polymer Science Part A, 2006, 44, 2363-2375.	2.5	288
13	RAFT and click chemistry: A versatile approach to well-defined block copolymers. Chemical Communications, 2006, , 5051-5053.	2.2	280
14	The future of reversible addition fragmentation chain transfer polymerization. Journal of Polymer Science Part A, 2008, 46, 5715-5723.	2.5	265
15	Kinetic Analysis of Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerizations: Conditions for Inhibition, Retardation, and Optimum Living Polymerization. Macromolecular Theory and Simulations, 2002, 11, 823-835.	0.6	261
16	Current Trends in the Field of Selfâ€Healing Materials. Macromolecular Chemistry and Physics, 2012, 213, 131-143.	1.1	256
17	Adaptable Hetero Dielsâ€“Alder Networks for Fast Selfâ€Healing under Mild Conditions. Advanced Materials, 2014, 26, 3561-3566.	11.1	245
18	Single Chain Folding of Synthetic Polymers by Covalent and Nonâ€Covalent Interactions: Current Status and Future Perspectives. Macromolecular Rapid Communications, 2012, 33, 958-971.	2.0	240

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19	Limitations of radical thiolâ€ene reactions for polymerâ€“polymer conjugation. Journal of Polymer Science Part A, 2010, 48, 1699-1713.	2.5	235
20	Dynamic Macromolecular Material Designâ€”The Versatility of Cyclodextrinâ€Based Hostâ€“Guest Chemistry. Angewandte Chemie - International Edition, 2017, 56, 8350-8369.	7.2	230
21	Mass spectrometry in polymer chemistry: a state-of-the-art up-date. Polymer Chemistry, 2010, 1, 599.	1.9	215
22	Ultrafast Click Conjugation of Macromolecular Building Blocks at Ambient Temperature. Angewandte Chemie - International Edition, 2009, 48, 2411-2414.	7.2	213
23	Inâ€…Situ Formation of Proteinâ€“Polymer Conjugates through Reversible Addition Fragmentation Chain Transfer Polymerization. Angewandte Chemie - International Edition, 2007, 46, 3099-3103.	7.2	207
24	3D Laser Microâ€•and Nanoprinting: Challenges for Chemistry. Angewandte Chemie - International Edition, 2017, 56, 15828-15845.	7.2	205
25	The role of midâ€chain radicals in acrylate free radical polymerization: Branching and scission. Journal of Polymer Science Part A, 2008, 46, 7585-7605.	2.5	201
26	Singleâ€Chain Folding of Synthetic Polymers: A Critical Update. Macromolecular Rapid Communications, 2016, 37, 29-46.	2.0	196
27	Shell-Cross-Linked Vesicles Synthesized from Block Copolymers of Poly(d,l-lactide) and Poly(N-isopropyl acrylamide) as Thermoresponsive Nanocontainers. Langmuir, 2004, 20, 10809-10817.	1.6	195
28	Honeycomb-Structured Porous Films from Polypyrrole-Containing Block Copolymers Prepared via RAFT Polymerization as a Scaffold for Cell Growth. Biomacromolecules, 2006, 7, 1072-1082.	2.6	193
29	Controlling the shape of 3D microstructures by temperature and light. Nature Communications, 2019, 10, 232.	5.8	193
30	Surface Modification of Poly(divinylbenzene) Microspheres via Thiolâ˜Ene Chemistry and Alkyneâ˜Azide Click Reactions. Macromolecules, 2009, 42, 3707-3714.	2.2	192
31	Chain-length-dependent termination in radical polymerization: Subtle revolution in tackling a long-standing challenge. Progress in Polymer Science, 2009, 34, 1211-1259.	11.8	183
32	Controlled Cell Adhesion on Poly(dopamine) Interfaces Photopatterned with Nonâ€Fouling Brushes. Advanced Materials, 2013, 25, 6123-6127.	11.1	180
33	Postâ€Functionalization of Polymers via Orthogonal Ligation Chemistry. Macromolecular Rapid Communications, 2013, 34, 810-849.	2.0	180
34	Verification of Controlled Grafting of Styrene from Cellulose via Radiation-Induced RAFT Polymerization. Macromolecules, 2007, 40, 7140-7147.	2.2	176
35	Adding Spatial Control to Click Chemistry: Phototriggered Dielsâ€“Alder Surface (Bio)functionalization at Ambient Temperature. Angewandte Chemie - International Edition, 2012, 51, 1071-1074.	7.2	170
36	Reversible Addition Fragmentation Chain Transfer (RAFT) and Hetero-Dielsâ˜Alder Chemistry as a Convenient Conjugation Tool for Access to Complex Macromolecular Designs. Macromolecules, 2008, 41, 4120-4126.	2.2	168

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37	Consistent Experimental and Theoretical Evidence for Long-Lived Intermediate Radicals in Living Free Radical Polymerization. Journal of the American Chemical Society, 2004, 126, 15915-15923.	6.6	166
38	Complex macromolecular architecture design via cyclodextrin host/guest complexes. Progress in Polymer Science, 2014, 39, 235-249.	11.8	166
39	Poly(vinyl ester) Star Polymers via Xanthate-Mediated Living Radical Polymerization:Â From Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Ov	2.2	162
40	Direct Synthesis of Well-Defined Heterotelechelic Polymers for Bioconjugations. Macromolecules, 2008, 41, 5641-5650.	2.2	156
41	Rapid Assembly of Small Materials Building Blocks (Voxels) into Large Functional 3D Metamaterials. Advanced Functional Materials, 2020, 30, 1907795.	7.8	156
42	An atom-efficient conjugation approach to well-defined block copolymers using RAFT chemistry and hetero Dielsâ€“Alder cycloaddition. Chemical Communications, 2008, , 2052.	2.2	155
43	Single-Chain Nanoparticles as Catalytic Nanoreactors. Journal of the American Chemical Society, 2018, 140, 5875-5881.	6.6	155
44	Synthesis of Various Glycopolymer Architectures via RAFT Polymerization:Â From Block Copolymers to Stars. Biomacromolecules, 2006, 7, 232-238.	2.6	150
45	The reversible addition-fragmentation chain transfer process and the strength and limitations of modeling: Comment on ?the magnitude of the fragmentation rate coefficient?. Journal of Polymer Science Part A, 2003, 41, 2828-2832.	2.5	143
46	4D Printing at the Microscale. Advanced Functional Materials, 2020, 30, 1907615.	7.8	141
47	Well-Defined Glycopolymers from RAFT Polymerization:Â Poly(methyl 6-O-methacryloyl-Î±-d-glucoside) and Its Block Copolymer with 2-Hydroxyethyl Methacrylate. Macromolecules, 2004, 37, 7530-7537.	2.2	140
48	Wavelength-Dependent Photochemistry of Oxime Ester Photoinitiators. Macromolecules, 2017, 50, 1815-1823.	2.2	140
49	Hierarchical Nacre Mimetics with Synergistic Mechanical Properties by Control of Molecular Interactions in Selfâ€Healing Polymers. Angewandte Chemie - International Edition, 2015, 54, 8653-8657.	7.2	139
50	Acidâ€Đegradable Coreâ€Crosslinked Micelles Prepared from Thermosensitive Glycopolymers Synthesized via RAFT Polymerization. Macromolecular Rapid Communications, 2008, 29, 123-129.	2.0	138
51	Orthogonal Transformations on Solid Substrates: Efficient Avenues to Surface Modification. Advanced Materials, 2009, 21, 3442-3468.	11.1	138
52	Constructing star polymersvia modular ligation strategies. Polymer Chemistry, 2012, 3, 34-45.	1.9	138
53	Critically evaluated termination rate coefficients for free-radical polymerization: Experimental methods. Progress in Polymer Science, 2005, 30, 605-643.	11.8	137
54	Grafting Efficiency of Synthetic Polymers onto Biomaterials: A Comparative Study of Grafting-from versus Grafting-to. Biomacromolecules, 2013, 14, 64-74.	2.6	137

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55	Cycloadditions in Modern Polymer Chemistry. Accounts of Chemical Research, 2015, 48, 1296-1307.	7.6	136
56	Polystyrene comb polymers built on cellulose or poly(styrene-co-2-hydroxyethylmethacrylate) backbones as substrates for the preparation of structured honeycomb films. European Polymer Journal, 2005, 41, 2264-2277.	2.6	135
57	Selective Dispersion of Single-Walled Carbon Nanotubes with Specific Chiral Indices by Poly(N-decyl-2,7-carbazole). Journal of the American Chemical Society, 2011, 133, 652-655.	6.6	135
58	Hyperbranched polymers as scaffolds for multifunctional reversible addition-fragmentation chain-transfer agents: A route to polystyrene-core -polyesters and polystyrene-block -poly(butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 61	2.5	134
59	Rapid Bonding/Debonding on Demand: Reversibly Cross-Linked Functional Polymers via Dielsâ^'Alder Chemistry. Macromolecules, 2010, 43, 5515-5520.	2.2	134
60	Photoclickable Surfaces for Profluorescent Covalent Polymer Coatings. Advanced Functional Materials, 2012, 22, 304-312.	7.8	133
61	Synthesis of Star Polymers using RAFT Polymerization: What is Possible?. Australian Journal of Chemistry, 2006, 59, 719.	0.5	132
62	Has Click Chemistry Lead to a Paradigm Shift in Polymer Material Design?. Macromolecular Chemistry and Physics, 2009, 210, 987-992.	1.1	130
63	Photochemically Driven Polymeric Network Formation: Synthesis and Applications. Advanced Materials, 2017, 29, 1604005.	11.1	130
64	Multimaterial 3D laser microprinting using an integrated microfluidic system. Science Advances, 2019, 5, eaau9160.	4.7	130
65	Fabrication of Conductive 3D Goldâ€Containing Microstructures via Direct Laser Writing. Advanced Materials, 2016, 28, 3592-3595.	11.1	127
66	Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization of Methyl Acrylate:Â Detailed Structural Investigation via Coupled Size Exclusion Chromatographyâ^'Electrospray Ionization Mass Spectrometry (SECâ^'ESI-MS). Macromolecules, 2004, 37, 744-751.	2.2	126
67	Guiding Cell Attachment in 3D Microscaffolds Selectively Functionalized with Two Distinct Adhesion Proteins. Advanced Materials, 2017, 29, 1604342.	11.1	123
68	Long-lived intermediates in reversible addition-fragmentation chain-transfer (RAFT) polymerization generated by ? radiation. Journal of Polymer Science Part A, 2002, 40, 1058-1063.	2.5	122
69	Amphiphilic Block Copolymers Based on Poly(2-acryloyloxyethyl phosphorylcholine) Prepared via RAFT Polymerisation as Biocompatible Nanocontainers. Macromolecular Bioscience, 2004, 4, 445-453.	2.1	122
70	Poly(vinyl alcohol) star polymers prepared via MADIX/RAFT polymerisationElectronic Supplementary Information (ESI) available: synthesis and NMR data of MADIX agents, polymerisation and analysis technique. See http://www.rsc.org/suppdata/cc/b4/b404763j/. Chemical Communications, 2004, , 1546.	2.2	122
71	Well-Defined Diblock Glycopolymers from RAFT Polymerization in Homogeneous Aqueous Medium. Macromolecules, 2005, 38, 9075-9084.	2.2	122
72	Honeycomb structured porous films from amphiphilic block copolymers prepared via RAFT polymerization. Polymer, 2007, 48, 4950-4965.	1.8	121

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73	Reversible addition-fragmentation chain-transfer polymerization: Unambiguous end-group assignment via electrospray ionization mass spectrometry. Journal of Polymer Science Part A, 2002, 40, 4032-4037.	2.5	119
74	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.	1.9	118
75	Probing mechanistic features of conventional, catalytic and living free radical polymerizations using soft ionization mass spectrometric techniques. Polymer, 2004, 45, 7791-7805.	1.8	116
76	RAFT-mediated polymerization and grafting of sodium 4-styrenesulfonate from cellulose initiated via Î³-radiation. Polymer, 2009, 50, 973-982.	1.8	115
77	A New Class of Materials: Sequenceâ€Defined Macromolecules and Their Emerging Applications. Advanced Materials, 2019, 31, e1806027.	11.1	115
78	Reversible additionâ€“fragmentation chain transfer polymerization initiated with Î³-radiation at ambient temperature: an overview. European Polymer Journal, 2003, 39, 449-459.	2.6	114
79	Access to cyclic polystyrenes via a combination of reversible addition fragmentation chain transfer (RAFT) polymerization and click chemistry. Polymer, 2008, 49, 2274-2281.	1.8	114
80	Enlightening the Mechanism of Copper Mediated PhotoRDRP via High-Resolution Mass Spectrometry. Journal of the American Chemical Society, 2015, 137, 6889-6896.	6.6	113
81	Bioinspired dual self-folding of single polymer chains via reversible hydrogen bonding. Polymer Chemistry, 2012, 3, 640-651.	1.9	111
82	Coding and decoding libraries of sequence-defined functional copolymers synthesized via photoligation. Nature Communications, 2016, 7, 13672.	5.8	111
83	Easy Access to Chain-Length-Dependent Termination Rate Coefficients Using RAFT Polymerization. Macromolecular Rapid Communications, 2002, 23, 952-956.	2.0	110
84	Quantitative LCâ^'MS of Polymers: Determining Accurate Molecular Weight Distributions by Combined Size Exclusion Chromatography and Electrospray Mass Spectrometry with Maximum Entropy Data Processing. Analytical Chemistry, 2008, 80, 6915-6927.	3.2	110
85	Wavelengthâ€Gated Dynamic Covalent Chemistry. Angewandte Chemie - International Edition, 2018, 57, 2036-2045.	7.2	110
86	Ambient Temperature RAFT Polymerization of Acrylic Acid Initiated with Ultraviolet Radiation in Aqueous Solution. Macromolecules, 2007, 40, 2978-2980.	2.2	109
87	Graft block copolymers of propargyl methacrylate and vinyl acetate via a combination of RAFT/MADIX and click chemistry: Reaction analysis. Journal of Polymer Science Part A, 2008, 46, 155-173.	2.5	109
88	A Mild and Efficient Approach to Functional Single-Chain Polymeric Nanoparticles via Photoinduced Dielsâ€“Alder Ligation. Macromolecules, 2013, 46, 8092-8101.	2.2	109
89	(Bio)Molecular Surface Patterning by Phototriggered Oxime Ligation. Angewandte Chemie - International Edition, 2012, 51, 9181-9184.	7.2	106
90	Dendrimers as scaffolds for multifunctional reversible addition-fragmentation chain transfer agents: Syntheses and polymerization. Journal of Polymer Science Part A, 2004, 42, 5877-5890.	2.5	105

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91	Investigation of the influence of the architectures of poly(vinyl pyrrolidone) polymers made via the reversible additionâ€“fragmentation chain transfer/macromolecular design via the interchange of xanthates mechanism on the stabilization of suspension polymerizations. Journal of Polymer Science Part A, 2006, 44, 4372-4383.	2.5	105
92	Shell-Cross-Linked Micelles Containing Cationic Polymers Synthesized via the RAFT Process:â€‰ Toward a More Biocompatible Gene Delivery System. Biomacromolecules, 2007, 8, 2890-2901.	2.6	105
93	Direct Synthesis of Pyridyl Disulfide-Terminated Polymers by RAFT Polymerization. Macromolecular Rapid Communications, 2007, 28, 305-314.	2.0	104
94	Rapid UV Lightâ€Triggered Macromolecular Click Conjugations via the Use of oâ€Quinodimethanes. Macromolecular Rapid Communications, 2011, 32, 807-812.	2.0	102
95	Design Criteria for Star Polymer Formation Processes via Living Free Radical Polymerization. Macromolecules, 2006, 39, 6406-6419.	2.2	101
96	3D Scaffolds to Study Basic Cell Biology. Advanced Materials, 2019, 31, e1808110.	11.1	101
97	Synthesis of core-shell poly(divinylbenzene) microspheres via reversible addition fragmentation chain transfer graft polymerization of styrene. Journal of Polymer Science Part A, 2004, 42, 5067-5076.	2.5	99
98	RAFT Polymerization ofN-Isopropylacrylamide and Acrylic Acid underÎ³-Irradiation in Aqueous Media. Macromolecular Rapid Communications, 2006, 27, 821-828.	2.0	99
99	A Detailed On-Line FT/NIR and1H NMR Spectroscopic Investigation into Factors Causing Inhibition in Xanthate-Mediated Vinyl Acetate Polymerization. Macromolecular Chemistry and Physics, 2004, 205, 925-936.	1.1	96
100	Access to Chain Length Dependent Termination Rate Coefficients of Methyl Acrylate via Reversible Additionâ^'Fragmentation Chain Transfer Polymerization. Macromolecules, 2005, 38, 2595-2605.	2.2	96
101	Lightâ€Induced Modular Ligation of Conventional RAFT Polymers. Angewandte Chemie - International Edition, 2013, 52, 762-766.	7.2	96
102	Chain Length Dependent Termination in Butyl Acrylate Free-Radical Polymerization Studied via Stationary and Pulsed Laser Initiated RAFT Polymerization. Macromolecules, 2005, 38, 9497-9508.	2.2	93
103	Efficient Surface Modification of Divinylbenzene Microspheres via a Combination of RAFT and Hetero Dielsâ€Alder Chemistry. Macromolecular Rapid Communications, 2008, 29, 1431-1437.	2.0	93
104	Propagation Rate Coefficients of Acrylateâ^'Methacrylate Free-Radical Bulk Copolymerizations. Macromolecules, 2001, 34, 5439-5448.	2.2	91
105	Efficient Photochemical Approaches for Spatially Resolved Surface Functionalization. Angewandte Chemie - International Edition, 2015, 54, 11388-11403.	7.2	90
106	Pd-complex driven formation of single-chain nanoparticles. Polymer Chemistry, 2015, 6, 4358-4365.	1.9	90
107	Synthesis of poly(vinyl alcohol) combs via MADIX/RAFT polymerization. Polymer, 2006, 47, 1073-1080.	1.8	88
108	Dielsâ€“Alder Reactions as an Efficient Route to High Purity Cyclic Polymers. Macromolecular Rapid Communications, 2011, 32, 724-728.	2.0	87

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109	Photochemical Design of Functional Fluorescent Single-Chain Nanoparticles. ACS Macro Letters, 2014, 3, 574-579.	2.3	87
110	A Novel Photoresponsive Azobenzene-Containing Miktoarm Star Polymer: Self-Assembly and Photoresponse Properties. Macromolecules, 2014, 47, 3693-3700.	2.2	86
111	Photochemistry in Confined Environments for Single-Chain Nanoparticle Design. Journal of the American Chemical Society, 2018, 140, 9551-9557.	6.6	86
112	Nano- and Micro-Engineering of Ordered Porous Blue-Light-Emitting Films by Templating Well-Defined Organic Polymers Around Condensing Water Droplets. Angewandte Chemie - International Edition, 2003, 42, 3664-3668.	7.2	85
113	Pushing the Limit: Pulsed Laser Polymerization of n-Butyl Acrylate at 500 Hz. Macromolecules, 2008, 41, 8971-8973.	2.2	85
114	Visible Light [2 + 2] Cycloadditions for Reversible Polymer Ligation. Macromolecules, 2018, 51, 3802-3807.	2.2	84
115	Biomedical Applications of pH-Responsive Amphiphilic Polymer Nanoassemblies. ACS Applied Nano Materials, 2020, 3, 2104-2117.	2.4	84
116	Computational prediction of the molecular configuration of three-dimensional network polymers. Nature Materials, 2021, 20, 1422-1430.	13.3	84
117	Implementing the reversible addition-fragmentation chain transfer process in PREDICI. Journal of Polymer Science Part A, 2004, 42, 1441-1448.	2.5	83
118	Platinum(II)â€Crosslinked Singleâ€Chain Nanoparticles: An Approach towards Recyclable Homogeneous Catalysts. Angewandte Chemie - International Edition, 2017, 56, 4950-4954.	7.2	83
119	Wavelength Dependence of Light-Induced Cycloadditions. Journal of the American Chemical Society, 2017, 139, 15812-15820.	6.6	83
120	Accessing Chain Length Dependent Termination Rate Coefficients of Methyl Methacrylate (MMA) via the Reversible Addition Fragmentation Chain Transfer (RAFT) Process. Macromolecular Chemistry and Physics, 2005, 206, 2047-2053.	1.1	82
121	Mixed, Multicompartment, or Janus Micelles? A Systematic Study of Thermoresponsive Bis-Hydrophilic Block Terpolymers. Langmuir, 2010, 26, 12237-12246.	1.6	82
122	An in-depth analytical approach to the mechanism of the RAFT process in acrylate free radical polymerizations via coupled size exclusion chromatographyâ€“electrospray ionization mass spectrometry (SECâ€“ESI-MS). Polymer, 2005, 46, 8448-8457.	1.8	81
123	Ultra Rapid Approaches to Mild Macromolecular Conjugation. Macromolecular Rapid Communications, 2010, 31, 1247-1266.	2.0	81
124	RAFT Chemistry and Huisgen 1,3-Dipolar Cycloaddition: A Route to Block Copolymers of Vinyl Acetate and 6-O-Methacryloyl Mannose?. Australian Journal of Chemistry, 2007, 60, 405.	0.5	80
125	Probing the reaction kinetics of vinyl acetate free radical polymerization via living free radical polymerization (MADIX). Polymer, 2006, 47, 999-1010.	1.8	79
126	Photoâ€Patterning of Nonâ€Fouling Polymers and Biomolecules on Paper. Advanced Materials, 2014, 26, 4087-4092.	11.1	79

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127	Temperature Responsive Cellulose-graft-Copolymers via Cellulose Functionalization in an Ionic Liquid and RAFT Polymerization. Biomacromolecules, 2014, 15, 2563-2572.	2.6	79
128	Facile conversion of RAFT polymers into hydroxyl functional polymers: a detailed investigation of variable monomer and RAFT agent combinations. Polymer Chemistry, 2010, 1, 634.	1.9	76
129	One-Step Functionalization of Single-Walled Carbon Nanotubes (SWCNTs) with Cyclopentadienyl-Capped Macromolecules via Dielsâ^'Alder Chemistry. Macromolecules, 2011, 44, 3374-3380.	2.2	76
130	Single chain self-assembly: preparation of Î±,Ï‰-donorâ€“acceptor chains via living radical polymerization and orthogonal conjugation. Chemical Communications, 2010, 46, 6291.	2.2	75
131	Effect of an added base on (4-cyanopentanoic acid)-4-dithiobenzoate mediated RAFT polymerization in water. Polymer, 2006, 47, 1011-1019.	1.8	74
132	Mapping Poly(butyl acrylate) Product Distributions by Mass Spectrometry in a Wide Temperature Range:Â Suppression of Midchain Radical Side Reactions. Macromolecules, 2007, 40, 8906-8912.	2.2	74
133	Supramolecular three-armed star polymers via cyclodextrin hostâ€“guest self-assembly. Polymer Chemistry, 2012, 3, 3139.	1.9	74
134	Catalytic transesterification of cellulose in ionic liquids: sustainable access to cellulose esters. Green Chemistry, 2014, 16, 3266.	4.6	74
135	Photochemically Induced Folding of Single Chain Polymer Nanoparticles in Water. ACS Macro Letters, 2017, 6, 56-61.	2.3	74
136	Postpolymerization Modification of Hydroxyl-Functionalized Polymers with Isocyanates. Macromolecules, 2011, 44, 4828-4835.	2.2	73
137	UV Light and Temperature Responsive Supramolecular ABA Triblock Copolymers via Reversible Cyclodextrin Complexation. Macromolecules, 2013, 46, 1054-1065.	2.2	72
138	Stepwise Unfolding of Singleâ€Chain Nanoparticles by Chemically Triggered Gates. Angewandte Chemie - International Edition, 2016, 55, 11276-11280.	7.2	72
139	Reversible addition fragmentation chain transfer copolymerization: influence of the RAFT process on the copolymer composition. Polymer, 2004, 45, 3997-4007.	1.8	71
140	Exploring the Mechanisms in STEDâ€Enhanced Direct Laser Writing. Advanced Optical Materials, 2015, 3, 221-232.	3.6	71
141	Synthesis of amphiphilic block copolymers based on poly(dimethylsiloxane) via fragmentation chain transfer (RAFT) polymerization. Polymer, 2004, 45, 4383-4389.	1.8	70
142	Living free radical polymerization (RAFT) of dodecyl acrylate: Chain length dependent termination, mid-chain radicals and monomer reaction order. Polymer, 2005, 46, 6797-6809.	1.8	70
143	Mild and Modular Surface Modification of Cellulose via Hetero Dielsâ^'Alder (HDA) Cycloaddition. Biomacromolecules, 2011, 12, 1137-1145.	2.6	70
144	Dielsâ€“Alder reactions for carbon material synthesis and surface functionalization. Polymer Chemistry, 2013, 4, 4072.	1.9	70

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145	Î»â€Orthogonal Pericyclic Macromolecular Photoligation. Angewandte Chemie - International Edition, 2015, 54, 2838-2843.	7.2	70
146	Polymer on Top: Current Limits and Future Perspectives of Quantitatively Evaluating Surface Grafting. Advanced Materials, 2018, 30, e1706321.	11.1	70
147	Ambient Temperature Synthesis of Triblock Copolymers via Orthogonal Photochemically and Thermally Induced Modular Conjugation. Macromolecules, 2011, 44, 4681-4689.	2.2	69
148	Preparation of Reactive Threeâ€Dimensional Microstructures via Direct Laser Writing and Thiolâ€ene Chemistry. Macromolecular Rapid Communications, 2013, 34, 335-340.	2.0	69
149	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	1.1	69
150	Threeâ€Dimensional Microscaffolds Exhibiting Spatially Resolved Surface Chemistry. Advanced Materials, 2013, 25, 6117-6122.	11.1	68
151	Quantum Chemical Mapping of Initialization Processes in RAFT Polymerization. Macromolecular Rapid Communications, 2006, 27, 1015-1022.	2.0	67
152	Degradation of RAFT polymers in a cyclic ether studied via high resolution ESIâ€MS: Implications for synthesis, storage, and endâ€group modification. Journal of Polymer Science Part A, 2008, 46, 7447-7461.	2.5	67
153	Using the reversible additionâ€“fragmentation chain transfer process to synthesize core-crosslinked micelles. Journal of Polymer Science Part A, 2006, 44, 2177-2194.	2.5	66
154	Interpolymer radical coupling: A toolbox complementary to controlled radical polymerization. Progress in Polymer Science, 2012, 37, 1004-1030.	11.8	66
155	Reversible addition fragmentation chain transfer polymerization of sterically hindered monomers: Toward well-defined rod/coil architectures. Journal of Polymer Science Part A, 2004, 42, 2432-2443.	2.5	65
156	Access to Threeâ€Arm Star Block Copolymers by a Consecutive Combination of the Copper(<scp>I</scp>)â€Catalyzed Azideâ€“Alkyne Cycloaddition and the RAFT Hetero Dielsâ€“Alder Concept. Macromolecular Rapid Communications, 2008, 29, 1090-1096.	2.0	65
157	Grafting thermoresponsive polymers onto honeycomb structured porous films using the RAFT process. Journal of Materials Chemistry, 2008, 18, 4718.	6.7	65
158	Neoglycopolymers Based on 4â€Vinylâ€1,2,3â€Triazole Monomers Prepared by Click Chemistry. Macromolecular Bioscience, 2010, 10, 119-126.	2.1	65
159	Nearâ€Infrared Photoinduced Coupling Reactions Assisted by Upconversion Nanoparticles. Angewandte Chemie - International Edition, 2016, 55, 12195-12199.	7.2	65
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