

Christopher N Bowman

List of Publications by Year in descending order

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490
papers

40,557
citations

3515

90
h-index

3563

181
g-index

505
all docs

505
docs citations

505
times ranked

24365
citing authors

#	ARTICLE	IF	CITATIONS
1	Thiol-ene Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1540-1573.	7.2	3,333
2	Thiol-click chemistry: a multifaceted toolbox for small molecule and polymer synthesis. <i>Chemical Society Reviews</i> , 2010, 39, 1355.	18.7	1,426
3	The Thiol-Michael Addition Click Reaction: A Powerful and Widely Used Tool in Materials Chemistry. <i>Chemistry of Materials</i> , 2014, 26, 724-744.	3.2	1,193
4	Mechanical properties of hydrogels and their experimental determination. <i>Biomaterials</i> , 1996, 17, 1647-1657.	5.7	980
5	Photoinitiated polymerization of PEG-diacrylate with lithium phenyl-2,4,6-trimethylbenzoylphosphinate: polymerization rate and cytocompatibility. <i>Biomaterials</i> , 2009, 30, 6702-6707.	5.7	951
6	Covalent adaptable networks: smart, reconfigurable and responsive network systems. <i>Chemical Society Reviews</i> , 2013, 42, 7161-7173.	18.7	869
7	Covalent Adaptable Networks (CANs): A Unique Paradigm in Cross-Linked Polymers. <i>Macromolecules</i> , 2010, 43, 2643-2653.	2.2	709
8	Photoinduced Plasticity in Cross-Linked Polymers. <i>Science</i> , 2005, 308, 1615-1617.	6.0	670
9	A Versatile Synthetic Extracellular Matrix Mimic via Thiol-Norbornene Photopolymerization. <i>Advanced Materials</i> , 2009, 21, 5005-5010.	11.1	578
10	Recent Advances and Developments in Composite Dental Restorative Materials. <i>Journal of Dental Research</i> , 2011, 90, 402-416.	2.5	542
11	Click Chemistry in Materials Science. <i>Advanced Functional Materials</i> , 2014, 24, 2572-2590.	7.8	514
12	Thiol-yne click chemistry: A powerful and versatile methodology for materials synthesis. <i>Journal of Materials Chemistry</i> , 2010, 20, 4745.	6.7	448
13	Kinetics of thiol-ene and thiol-acrylate photopolymerizations with real-time fourier transform infrared. <i>Journal of Polymer Science Part A</i> , 2001, 39, 3311-3319.	2.5	443
14	In situ forming degradable networks and their application in tissue engineering and drug delivery. <i>Journal of Controlled Release</i> , 2002, 78, 199-209.	4.8	430
15	Mechanical Properties of Cellularly Responsive Hydrogels and Their Experimental Determination. <i>Advanced Materials</i> , 2010, 22, 3484-3494.	11.1	394
16	Covalent Adaptable Networks: Reversible Bond Structures Incorporated in Polymer Networks. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4272-4274.	7.2	369
17	Structure and swelling of poly(acrylic acid) hydrogels: effect of pH, ionic strength, and dilution on the crosslinked polymer structure. <i>Polymer</i> , 2004, 45, 1503-1510.	1.8	365
18	Thiol-yne Photopolymerizations: Novel Mechanism, Kinetics, and Step-Growth Formation of Highly Cross-Linked Networks. <i>Macromolecules</i> , 2009, 42, 211-217.	2.2	357

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19	Two-Color Single-Photon Photoinitiation and Photoinhibition for Subdiffraction Photolithography. <i>Science</i> , 2009, 324, 913-917.	6.0	353
20	Spatial and temporal control of the alkyne-azide cycloaddition by photoinitiated Cu(II) reduction. <i>Nature Chemistry</i> , 2011, 3, 256-259.	6.6	342
21	Tailorable and programmable liquid-crystalline elastomers using a two-stage thiol-acrylate reaction. <i>RSC Advances</i> , 2015, 5, 18997-19001.	1.7	342
22	Fundamental studies of a novel, biodegradable PEG-b-PLA hydrogel. <i>Polymer</i> , 2000, 41, 3993-4004.	1.8	333
23	Kinetic evidence of reaction diffusion during the polymerization of multi(meth)acrylate monomers. <i>Macromolecules</i> , 1994, 27, 650-655.	2.2	319
24	Photopolymerizations of Thiol-Ene Polymers without Photoinitiators. <i>Macromolecules</i> , 2002, 35, 5361-5365.	2.2	313
25	Photodegradable, Photoadaptable Hydrogels via Radical-Mediated Disulfide Fragmentation Reaction. <i>Macromolecules</i> , 2011, 44, 2444-2450.	2.2	307
26	The effect of cure rate on the mechanical properties of dental resins. <i>Dental Materials</i> , 2001, 17, 504-511.	1.6	298
27	The power of light in polymer science: photochemical processes to manipulate polymer formation, structure, and properties. <i>Polymer Chemistry</i> , 2014, 5, 2187-2201.	1.9	295
28	Thiol-Ene Photopolymerization Mechanism and Rate Limiting Step Changes for Various Vinyl Functional Group Chemistries. <i>Macromolecules</i> , 2003, 36, 7964-7969.	2.2	289
29	A Novel Sequential Photoinduced Living Graft Polymerization. <i>Macromolecules</i> , 2000, 33, 331-335.	2.2	288
30	Rheological and Chemical Analysis of Reverse Gelation in a Covalently Cross-Linked Diels-Alder Polymer Network. <i>Macromolecules</i> , 2008, 41, 9112-9117.	2.2	275
31	Toward Stimuli-Responsive Dynamic Thermosets through Continuous Development and Improvements in Covalent Adaptable Networks (CANs). <i>Advanced Materials</i> , 2020, 32, e1906876.	11.1	273
32	A study of the evolution of mechanical properties and structural heterogeneity of polymer networks formed by photopolymerizations of multifunctional (meth)acrylates. <i>Polymer</i> , 1998, 39, 2507-2513.	1.8	268
33	The Effects of Light Intensity, Temperature, and Comonomer Composition on the Polymerization Behavior of Dimethacrylate Dental Resins. <i>Journal of Dental Research</i> , 1999, 78, 1469-1476.	2.5	265
34	Degradable thiol-acrylate photopolymers: polymerization and degradation behavior of an in situ forming biomaterial. <i>Biomaterials</i> , 2005, 26, 4495-4506.	5.7	257
35	Reaction behaviour and kinetic constants for photopolymerizations of multi(meth)acrylate monomers. <i>Polymer</i> , 1994, 35, 3243-3250.	1.8	250
36	Investigations of step-growth thiol-ene polymerizations for novel dental restoratives. <i>Dental Materials</i> , 2005, 21, 1129-1136.	1.6	234

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37	Toward an enhanced understanding and implementation of photopolymerization reactions. <i>AIChE Journal</i> , 2008, 54, 2775-2795.	1.8	220
38	Effects of ultrafiltration membrane surface properties on <i>Pseudomonas aeruginosa</i> biofilm initiation for the purpose of reducing biofouling. <i>Journal of Membrane Science</i> , 2001, 194, 15-32.	4.1	215
39	Reaction Kinetics and Volume Relaxation during Polymerizations of Multiethylene Glycol Dimethacrylates. <i>Macromolecules</i> , 1995, 28, 2491-2499.	2.2	210
40	Oxygen inhibition in thiol-ene acrylate photopolymerizations. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2007-2014.	2.5	199
41	Mechanism and Modeling of a Thiol-ene Photopolymerization. <i>Macromolecules</i> , 2003, 36, 4631-4636.	2.2	193
42	Evaluation and control of thiol-ene/thiol-epoxy hybrid networks. <i>Polymer</i> , 2007, 48, 1526-1532.	1.8	187
43	Predicting Controlled-Release Behavior of Degradable PLA-b-PEG-b-PLA Hydrogels. <i>Macromolecules</i> , 2001, 34, 4630-4635.	2.2	185
44	Development of a comprehensive free radical photopolymerization model incorporating heat and mass transfer effects in thick films. <i>Chemical Engineering Science</i> , 2002, 57, 887-900.	1.9	182
45	Effects of Composition and Reactivity on the Reaction Kinetics of Dimethacrylate/Dimethacrylate Copolymerizations. <i>Macromolecules</i> , 1999, 32, 3913-3921.	2.2	177
46	Understanding the kinetics and network formation of dimethacrylate dental resins. <i>Polymers for Advanced Technologies</i> , 2001, 12, 335-345.	1.6	176
47	A Statistical Kinetic Model for the Bulk Degradation of PLA-b-PEG-b-PLA Hydrogel Networks. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7043-7049.	1.2	170
48	New directions in the chemistry of shape memory polymers. <i>Polymer</i> , 2014, 55, 5849-5872.	1.8	167
49	Membrane fouling reduction by backpulsing and surface modification. <i>Journal of Membrane Science</i> , 2000, 173, 191-200.	4.1	164
50	Primary cyclization in the polymerization of bis-GMA and TEGDMA: a modeling approach to understanding the cure of dental resins. <i>Dental Materials</i> , 2001, 17, 221-229.	1.6	160
51	Thiol-ene oligomers as dental restorative materials. <i>Dental Materials</i> , 2005, 21, 1137-1143.	1.6	160
52	Impact of Oxygen on Photopolymerization Kinetics and Polymer Structure. <i>Macromolecules</i> , 2006, 39, 2501-2506.	2.2	160
53	Impact of Curing Protocol on Conversion and Shrinkage Stress. <i>Journal of Dental Research</i> , 2005, 84, 822-826.	2.5	157
54	Reaction Rates and Mechanisms for Radical, Photoinitiated Addition of Thiols to Alkynes, and Implications for Thiol-ene Photopolymerizations and Click Reactions. <i>Macromolecules</i> , 2010, 43, 4113-4119.	2.2	156

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55	Initiation and kinetics of thiol-ene photopolymerizations without photoinitiators. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5817-5826.	2.5	155
56	Photopolymerization Reactions Using the Photoinitiated Copper (I)-Catalyzed Azide-Alkyne Cycloaddition (CuAAC) Reaction. <i>Advanced Materials</i> , 2013, 25, 2024-2028.	11.1	149
57	A readily programmable, fully reversible shape-switching material. <i>Science Advances</i> , 2018, 4, eaat4634.	4.7	146
58	Externally Triggered Healing of a Thermoreversible Covalent Network via Self-Limited Hysteresis Heating. <i>Advanced Materials</i> , 2010, 22, 2784-2787.	11.1	144
59	Photopolymerized dynamic hydrogels with tunable viscoelastic properties through thioester exchange. <i>Biomaterials</i> , 2018, 178, 496-503.	5.7	142
60	Coupling of kinetics and volume relaxation during polymerizations of multiacrylates and multimethacrylates. <i>Macromolecules</i> , 1991, 24, 1914-1920.	2.2	139
61	Actuation in Crosslinked Polymers via Photoinduced Stress Relaxation. <i>Advanced Materials</i> , 2006, 18, 2128-2132.	11.1	139
62	Photomechanics of light-activated polymers. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 1103-1121.	2.3	138
63	Stress Relaxation via Addition-Fragmentation Chain Transfer in a Thiol-ene Photopolymerization. <i>Macromolecules</i> , 2009, 42, 2551-2556.	2.2	135
64	Enabling Applications of Covalent Adaptable Networks. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2019, 10, 175-198.	3.3	134
65	Use of "living" radical polymerizations to study the structural evolution and properties of highly crosslinked polymer networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 2297-2307.	2.4	133
66	Two-Stage Reactive Polymer Network Forming Systems. <i>Advanced Functional Materials</i> , 2012, 22, 1502-1510.	7.8	127
67	Photopolymerized thiol-ene systems as shape memory polymers. <i>Polymer</i> , 2010, 51, 4383-4389.	1.8	124
68	Mechanophotopatterning on a Photoresponsive Elastomer. <i>Advanced Materials</i> , 2011, 23, 1977-1981.	11.1	124
69	Modeling Primary Radical Termination and Its Effects on Autoacceleration in Photopolymerization Kinetics. <i>Macromolecules</i> , 1999, 32, 6552-6559.	2.2	123
70	Polymerization kinetics and volume relaxation behavior of photopolymerized multifunctional monomers producing highly crosslinked networks. <i>Journal of Polymer Science Part A</i> , 1994, 32, 139-147.	2.5	122
71	Diels-Alder Mediated Controlled Release from a Poly(ethylene glycol) Based Hydrogel. <i>Biomacromolecules</i> , 2013, 14, 538-547.	2.6	122
72	Towards the elucidation of shrinkage stress development and relaxation in dental composites. <i>Dental Materials</i> , 2004, 20, 979-986.	1.6	120

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73	Monochromatic Visible Light "Photoinitiator" Janus-Faced Initiation and Inhibition for Storage of Colored 3D Images. <i>Journal of the American Chemical Society</i> , 2014, 136, 8855-8858.	6.6	118
74	Photoresponsive Fiber Array: Toward Mimicking the Collective Motion of Cilia for Transport Applications. <i>Advanced Functional Materials</i> , 2016, 26, 5322-5327.	7.8	116
75	Effects of Monomer Structure on Their Organization and Polymerization in a Smectic Liquid Crystal. <i>Science</i> , 1997, 275, 57-59.	6.0	114
76	Synthesis, Thiol-Yne "Click" Photopolymerization, and Physical Properties of Networks Derived from Novel Multifunctional Alkynes. <i>Macromolecules</i> , 2010, 43, 4937-4942.	2.2	114
77	Spatial and Temporal Control of Thiol-Michael Addition via Photocaged Superbase in Photopatterning and Two-Stage Polymer Networks Formation. <i>Macromolecules</i> , 2014, 47, 6159-6165.	2.2	114
78	Method for Determining the Kinetic Parameters in Diffusion-Controlled Free-Radical Homopolymerizations. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1247-1252.	1.8	113
79	Photoclick Chemistry: A Bright Idea. <i>Chemical Reviews</i> , 2021, 121, 6915-6990.	23.0	113
80	Investigation of thiol-ene and thiol-ene "methacrylate based resins as dental restorative materials. <i>Dental Materials</i> , 2010, 26, 21-28.	1.6	111
81	Bistable and photoswitchable states of matter. <i>Nature Communications</i> , 2018, 9, 2804.	5.8	111
82	The effect of light intensity on double bond conversion and flexural strength of a model, unfilled dental resin. <i>Dental Materials</i> , 2003, 19, 458-465.	1.6	108
83	A Statistical Kinetic Model for the Bulk Degradation of PLA-b-PEG-b-PLA Hydrogel Networks: Incorporating Network Non-Idealities. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8069-8076.	1.2	107
84	Kinetics of Primary Cyclization Reactions in Cross-Linked Polymers: An Analytical and Numerical Approach to Heterogeneity in Network Formation. <i>Macromolecules</i> , 1999, 32, 8621-8628.	2.2	105
85	Photoinduced Plasticity in Cross-Linked Liquid Crystalline Networks. <i>Advanced Materials</i> , 2017, 29, 1606509.	11.1	103
86	Factors affecting membrane fouling reduction by surface modification and backpulsing. <i>Journal of Membrane Science</i> , 2001, 189, 255-270.	4.1	99
87	Using polymeric materials to generate an amplified response to molecular recognition events. <i>Nature Materials</i> , 2008, 7, 52-56.	13.3	99
88	Relative reactivity and selectivity of vinyl sulfones and acrylates towards the thiol "Michael addition reaction and polymerization. <i>Polymer Chemistry</i> , 2013, 4, 1048-1055.	1.9	98
89	Modeling the Effect of Oxygen on Photopolymerization Kinetics. <i>Macromolecular Theory and Simulations</i> , 2006, 15, 176-182.	0.6	96
90	Controlling Network Structure in Degradable Thiol-Y Acrylate Biomaterials to Tune Mass Loss Behavior. <i>Biomacromolecules</i> , 2006, 7, 2827-2836.	2.6	94

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91	Kinetic Gelation model predictions of crosslinked polymer network microstructure. <i>Chemical Engineering Science</i> , 1994, 49, 2207-2217.	1.9	93
92	Adaptable liquid crystal elastomers with transesterification-based bond exchange reactions. <i>Soft Matter</i> , 2018, 14, 951-960.	1.2	92
93	Reconfigurable LC Elastomers: Using a Thermally Programmable Monodomain To Access Two-Way Free-Standing Multiple Shape Memory Polymers. <i>Macromolecules</i> , 2018, 51, 5812-5819.	2.2	92
94	Probing the origins and control of shrinkage stress in dental resin-composites: I. Shrinkage stress characterization technique*. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 1097-1103.	1.7	91
95	Formation and Surface Modification of Nanopatterned Thiol-ene Substrates using Step and Flash Imprint Lithography. <i>Advanced Materials</i> , 2008, 20, 3308-3313.	11.1	91
96	Thiol-norbornene materials: Approaches to develop high <i>T_g</i> thiol-ene polymers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5686-5696.	2.5	90
97	Triple Shape Memory Materials Incorporating Two Distinct Polymer Networks Formed by Selective Thiol-Michael Addition Reactions. <i>Macromolecules</i> , 2014, 47, 4949-4954.	2.2	88
98	Development of highly reactive mono-(meth)acrylates as reactive diluents for dimethacrylate-based dental resin systems. <i>Biomaterials</i> , 2005, 26, 1329-1336.	5.7	87
99	Properties of methacrylate-thiol-ene formulations as dental restorative materials. <i>Dental Materials</i> , 2010, 26, 799-806.	1.6	87
100	Effects of neighboring sulfides and pH on ester hydrolysis in thiol-acrylate photopolymers. <i>Acta Biomaterialia</i> , 2007, 3, 449-455.	4.1	86
101	Radical concentrations, environments, and reactivities during crosslinking polymerizations. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 833-848.	1.1	84
102	Thiol-Vinyl Mechanisms. 1. Termination and Propagation Kinetics in Thiol-ene Photopolymerizations. <i>Macromolecules</i> , 2006, 39, 3673-3680.	2.2	84
103	Thiol-Allyl Ether-Methacrylate Ternary Systems. Polymerization Mechanism. <i>Macromolecules</i> , 2007, 40, 1466-1472.	2.2	84
104	Real-Time Infrared Characterization of Reaction Diffusion during Multifunctional Monomer Polymerizations. <i>Macromolecules</i> , 1995, 28, 4040-4043.	2.2	82
105	Transport Properties of Carbon Dioxide through Amine Functionalized Carrier Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 4071-4077.	1.8	82
106	Thiol-Isocyanate-ene Ternary Networks by Sequential and Simultaneous Thiol Click Reactions. <i>Chemistry of Materials</i> , 2010, 22, 2616-2625.	3.2	82
107	Thiol-Allyl Ether-Methacrylate Ternary Systems. Evolution Mechanism of Polymerization-Induced Shrinkage Stress and Mechanical Properties. <i>Macromolecules</i> , 2007, 40, 1473-1479.	2.2	81
108	High Performance Graded Rainbow Holograms via Two-Stage Sequential Orthogonal Thiol-Click Chemistry. <i>Macromolecules</i> , 2014, 47, 2306-2315.	2.2	81

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109	Remoldable Thiol-ene Vitrimers for Photopatterning and Nanoimprint Lithography. <i>Macromolecules</i> , 2016, 49, 8905-8913.	2.2	81
110	Nanoimprint lithography: Emergent materials and methods of actuation. <i>Nano Today</i> , 2020, 31, 100838.	6.2	81
111	Effect of comonomer concentration and functionality on photopolymerization rates, mechanical properties and heterogeneity of the polymer. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 1043-1049.	1.1	79
112	Effect of Polymerization Temperature and Cross-Linker Concentration on Reaction Diffusion Controlled Termination. <i>Macromolecules</i> , 1999, 32, 6073-6081.	2.2	79
113	Robust polymer microfluidic device fabrication via contact liquid photolithographic polymerization (CLIPP). <i>Lab on A Chip</i> , 2004, 4, 658.	3.1	79
114	A new photoclick reaction strategy: photo-induced catalysis of the thiol-Michael addition via a caged primary amine. <i>Chemical Communications</i> , 2013, 49, 4504-4506.	2.2	79
115	A kinetic gelation method for the simulation of free-radical polymerizations. <i>Chemical Engineering Science</i> , 1992, 47, 1411-1419.	1.9	78
116	Thiol-Vinyl Mechanisms. 2. Kinetic Modeling of Ternary Thiol-Vinyl Photopolymerizations. <i>Macromolecules</i> , 2006, 39, 3681-3687.	2.2	78
117	Ultrathin gradient films using thiol-ene polymerizations. <i>Journal of Polymer Science Part A</i> , 2006, 44, 7027-7039.	2.5	78
118	A user's guide to the thiol-thioester exchange in organic media: scope, limitations, and applications in material science. <i>Polymer Chemistry</i> , 2018, 9, 4523-4534.	1.9	78
119	Thiol-ene-methacrylate composites as dental restorative materials. <i>Dental Materials</i> , 2011, 27, 267-272.	1.6	77
120	Using Changes in Initiation and Chain Transfer Rates To Probe the Kinetics of Cross-Linking Photopolymerizations: Effects of Chain Length Dependent Termination. <i>Macromolecules</i> , 2001, 34, 5103-5111.	2.2	76
121	Kinetic and Mechanistic Studies of Iniferter Photopolymerizations. <i>Macromolecules</i> , 1996, 29, 7310-7315.	2.2	75
122	Surface Modification Using Thiol-Acrylate Conjugate Addition Reactions. <i>Macromolecules</i> , 2007, 40, 5669-5677.	2.2	75
123	Clickable Nucleic Acids: Sequence-Controlled Periodic Copolymer/Oligomer Synthesis by Orthogonal Thiol-X Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14462-14467.	7.2	75
124	Mucoadhesion of poly(2-hydroxyethyl methacrylate) is improved when linear poly(ethylene oxide) chains are added to the polymer network. <i>Journal of Controlled Release</i> , 1995, 33, 197-201.	4.8	74
125	A Generalized Bulk-Degradation Model for Hydrogel Networks Formed from Multivinyl Cross-linking Molecules. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5131-5138.	1.2	74
126	The reciprocity law concerning light dose relationships applied to BisGMA/TEGDMA photopolymers: Theoretical analysis and experimental characterization. <i>Dental Materials</i> , 2014, 30, 605-612.	1.6	74

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127	Scaffolded Thermally Remendable Hybrid Polymer Networks. <i>Advanced Functional Materials</i> , 2016, 26, 1477-1485.	7.8	74
128	Effect of Polymer Surface Properties on the Reversibility of Attachment of <i>Pseudomonas aeruginosa</i> in the Early Stages of Biofilm Development. <i>Biofouling</i> , 2002, 18, 65-71.	0.8	72
129	A Diels-Alder modulated approach to control and sustain the release of dexamethasone and induce osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013, 34, 4150-4158.	5.7	72
130	Photo-differential scanning calorimetry studies of cationic polymerizations of divinyl ethers. <i>Polymer</i> , 1995, 36, 4651-4656.	1.8	71
131	Stress Relaxation by Addition-Fragmentation Chain Transfer in Highly Cross-Linked Thiol-ene Networks. <i>Macromolecules</i> , 2010, 43, 10188-10190.	2.2	71
132	Visible-Light Initiated Thiol-Michael Addition Photopolymerization Reactions. <i>ACS Macro Letters</i> , 2014, 3, 315-318.	2.3	71
133	Ester-free thiol-ene dental restoratives Part A: Resin development. <i>Dental Materials</i> , 2015, 31, 1255-1262.	1.6	71
134	Synthesis and Assembly of Click-Nucleic Acid-Containing PEG-PLGA Nanoparticles for DNA Delivery. <i>Advanced Materials</i> , 2017, 29, 1700743.	11.1	71
135	Nitrogen-Centered Nucleophile Catalyzed Thiol-Vinylsulfone Addition, Another Thiol-ene Click Reaction. <i>ACS Macro Letters</i> , 2012, 1, 811-814.	2.3	70
136	Reaction Diffusion Enhanced Termination in Polymerizations of Multifunctional Monomers. <i>Polymer-Plastics Technology and Engineering</i> , 1993, 1, 499-520.	0.7	68
137	Probing the origins and control of shrinkage stress in dental resin composites. II. Novel method of simultaneous measurement of polymerization shrinkage stress and conversion. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71B, 206-213.	3.0	68
138	Exploiting the Heterogeneity of Cross-Linked Photopolymers To Create High-Tg Polymers from Polymerizations Performed at Ambient Conditions. <i>Macromolecules</i> , 2001, 34, 8021-8025.	2.2	67
139	Kinetic modeling of the effect of solvent concentration on primary cyclization during polymerization of multifunctional monomers. <i>Chemical Engineering Science</i> , 2001, 56, 3173-3184.	1.9	67
140	Efficient Polymer-Polymer Conjugation via Thiol-ene Click Reaction. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700073.	1.1	67
141	Modeling of network degradation in mixed step-chain growth polymerizations. <i>Polymer</i> , 2005, 46, 4212-4222.	1.8	66
142	Ultrathin Patterned Polymer Films on Surfaces Using Thiol-ene Polymerizations. <i>Macromolecules</i> , 2006, 39, 5081-5086.	2.2	66
143	A Simple Relationship Relating Linear Viscoelastic Properties and Chemical Structure in a Model Diels-Alder Polymer Network. <i>Macromolecules</i> , 2012, 45, 7634-7641.	2.2	66
144	Reconfigurable and Spatially Programmable Chameleon Skin-Like Material Utilizing Light Responsive Covalent Adaptable Cholesteric Liquid Crystal Elastomers. <i>Advanced Functional Materials</i> , 2020, 30, 2003150.	7.8	66

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145	Living radical photopolymerization induced grafting on thiol-ene based substrates. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2134-2144.	2.5	65
146	Development and characterization of degradable thiol-allyl ether photopolymers. <i>Polymer</i> , 2007, 48, 4589-4600.	1.8	65
147	Transport mechanism of carbon dioxide through perfluorosulfonate ionomer membranes containing an amine carrier. <i>Chemical Engineering Science</i> , 1996, 51, 4781-4789.	1.9	64
148	Structural Evolution of Dimethacrylate Networks Studied by Dielectric Spectroscopy. <i>Macromolecules</i> , 1998, 31, 3311-3316.	2.2	64
149	Polymerizable Vancomycin Derivatives for Bactericidal Biomaterial Surface Modification: Structure-Function Evaluation. <i>Biomacromolecules</i> , 2009, 10, 2221-2234.	2.6	64
150	A novel copper containing photoinitiator, copper(ii) acylphosphinate, and its application in both the photomediated CuAAC reaction and in atom transfer radical polymerization. <i>Chemical Communications</i> , 2013, 49, 7950.	2.2	64
151	Secondary Photocrosslinking of Click Hydrogels To Probe Myoblast Mechanotransduction in Three Dimensions. <i>Journal of the American Chemical Society</i> , 2018, 140, 11585-11588.	6.6	64
152	A Methacrylated Photoiniferter as a Chemical Basis for Microlithography: Micropatterning Based on Photografting Polymerization. <i>Macromolecules</i> , 2003, 36, 6739-6745.	2.2	63
153	Wavelength-Selective Sequential Polymer Network Formation Controlled with a Two-Color Responsive Initiation System. <i>Macromolecules</i> , 2017, 50, 5652-5660.	2.2	62
154	The Influence of Comonomer Composition on Dimethacrylate Resin Properties for Dental Composites. <i>Journal of Dental Research</i> , 1996, 75, 1607-1612.	2.5	61
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