Christopher N Bowman

List of Publications by Year
in descending order

490 papers	40,557 citations	3531 90 h-index	3579 181 g-index
505 all docs	505 docs citations	505 times ranked	24365 citing authors

#	Article	IF	Citations
1	Athermal, Chemically Triggered Release of RNA from Thioester Nucleic Acids. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
2	Shape Permanence in Diaryletheneâ€Functionalized Liquidâ€Crystal Elastomers Facilitated by Thiolâ€Anhydride Dynamic Chemistry. Angewandte Chemie - International Edition, 2022, 61, .	13.8	22
3	Photodisulfidation of alkenes with linear disulfides: Reaction scope and kinetics. Tetrahedron, 2022, 109, 132683.	1.9	6
4	Controlled Degradation of Cast and 3-D Printed Photocurable Thioester Networks via Thiolâ€"Thioester Exchange. Macromolecules, 2022, 55, 1376-1385.	4.8	16
5	Manipulating the Relative Rates of Reaction and Diffusion in a Holographic Photopolymer Based on Thiolâ€"Ene Chemistry. Macromolecules, 2022, 55, 1822-1833.	4.8	13
6	Spatial and Temporal Control of Photomediated Disulfideâ€"Ene and Thiolâ€"Ene Chemistries for Two-Stage Polymerizations. Macromolecules, 2022, 55, 1811-1821.	4.8	7
7	Synthesis, selective decoration and photocrosslinking of <scp>selfâ€immolative</scp> poly(thioester)â€PEG hydrogels. Polymer International, 2022, 71, 906-911.	3.1	5
8	Kinetic Analysis of Degradation in Thioester Cross-linked Hydrogels as a Function of Thiol Concentration, p<i>K</i>_a, and Presentation. Macromolecules, 2022, 55, 2123-2129.	4.8	10
9	Radical-disulfide exchange in thiolâ€"eneâ€"disulfidation polymerizations. Polymer Chemistry, 2022, 13, 3991-4003.	3.9	9
10	Tunable Surfaces and Films from Thioester Containing Microparticles. ACS Applied Materials & Interfaces, 2022, 14, 27177-27186.	8.0	3
11	Intracellular Crowding by Bioâ€Orthogonal Hydrogel Formation Induces Reversible Molecular Stasis. Advanced Materials, 2022, 34, .	21.0	8
12	Phosphonium Tetraphenylborate: A Photocatalyst for Visible-Light-Induced, Nucleophile-Initiated Thiol-Michael Addition Photopolymerization. ACS Macro Letters, 2021, 10, 84-89.	4.8	10
13	Lightâ€Activated Stress Relaxation, Toughness Improvement, and Photoinduced Reversal of Physical Aging in Glassy Polymer Networks. Advanced Materials, 2021, 33, e2007221.	21.0	16
14	Spatially Controlled Permeability and Stiffness in Photopatterned Two-Stage Reactive Polymer Films for Enhanced CO₂ Barrier and Mechanical Toughness. Macromolecules, 2021, 54, 44-52.	4.8	4
15	Systematic Modulation and Structureâ€"Property Relationships in Photopolymerizable Thermoplastics. ACS Applied Polymer Materials, 2021, 3, 1171-1181.	4.4	4
16	Determining Michael acceptor reactivity from kinetic, mechanistic, and computational analysis for the base-catalyzed thiol-Michael reaction. Polymer Chemistry, 2021, 12, 3619-3628.	3.9	9
17	Permanent and reversibly programmable shapes in liquid crystal elastomer microparticles capable of shape switching. Soft Matter, 2021, 17, 467-474.	2.7	12
18	Effects of Network Structures on the Tensile Toughness of Copper-Catalyzed Azideâ€"Alkyne Cycloaddition (CuAAC)-Based Photopolymers. Macromolecules, 2021, 54, 747-756.	4.8	7

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19	Enamine Organocatalysts for the Thiol-Michael Addition Reaction and Cross-Linking Polymerizations. Macromolecules, 2021, 54, 1693-1701.	4.8	7
20	Charged Poly(<i>N</i>-isopropylacrylamide) Nanogels for the Stabilization of High Isoelectric Point Proteins. ACS Biomaterials Science and Engineering, 2021, 7, 4282-4292.	5.2	16
21	Synthesis and Characterization of Click Nucleic Acid Conjugated Polymeric Microparticles for DNA Delivery Applications. Biomacromolecules, 2021, 22, 1127-1136.	5.4	7
22	High Refractive Index Photopolymers by Thiolâ€“Yne â€œClickâ€•Polymerization. ACS Applied Materials & Interfaces, 2021, 13, 15647-15658.	8.0	34
23	Effects of Thiol Substitution on the Kinetics and Efficiency of Thiol-Michael Reactions and Polymerizations. Macromolecules, 2021, 54, 3093-3100.	4.8	18
24	Poly(triazole) Glassy Networks via Thiol-Norbornene Photopolymerization: Structureâ€“Property Relationships and Implementation in 3D Printing. Macromolecules, 2021, 54, 4042-4049.	4.8	5
25	Influence of Orientational Genesis on the Actuation of Monodomain Liquid Crystalline Elastomers. Macromolecules, 2021, 54, 4023-4029.	4.8	15
26	Photoclick Chemistry: A Bright Idea. Chemical Reviews, 2021, 121, 6915-6990.	47.7	113
27	Stimuliâ€Responsive Depolymerization of Poly(Phthalaldehyde) Copolymers and Networks. Macromolecular Chemistry and Physics, 2021, 222, 2100111.	2.2	8
28	Substituted Thiols in Dynamic Thiolâ€“Thioester Reactions. Macromolecules, 2021, 54, 8341-8351.	4.8	11
29	3D printing of sacrificial thioester elastomers using digital light processing for templating 3D organoid structures in soft biomatrices. Biofabrication, 2021, 13, 044104.	7.1	21
30	Evaluation of a photo-initiated copper(I)-catalyzed azide-alkyne cycloaddition polymer network with improved water stability and high mechanical performance as an ester-free dental restorative. Dental Materials, 2021, 37, 1592-1600.	3.5	5
31	The contribution of intermolecular forces to phototropic actuation of liquid crystalline elastomers. Polymer Chemistry, 2021, 12, 1581-1587.	3.9	24
32	Surface Modification of (Non)â€Fluorinated Vitrimers through Dynamic Transamination. Macromolecular Rapid Communications, 2021, 42, e2000644.	3.9	13
33	Additive Manufacture of Dynamic Thiolâ€“ene Networks Incorporating Anhydride-Derived Reversible Thioester Links. ACS Applied Materials & Interfaces, 2021, 13, 12789-12796.	8.0	29
34	Polymer Network Structure, Properties, and Formation of Liquid Crystalline Elastomers Prepared via Thiolâ€“Acrylate Chain Transfer Reactions. Macromolecules, 2021, 54, 11074-11082.	4.8	24
35	Functional Nanogels as a Route to Interpenetrating Polymer Networks with Improved Mechanical Properties. Macromolecules, 2021, 54, 10657-10666.	4.8	6
36	Floryâ€“Huggins Parameters for Thiol-ene Networks Using Hansen Solubility Parameters. Macromolecules, 2021, 54, 11439-11448.	4.8	8

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37	Towards High-Efficiency Synthesis of Xenonucleic Acids. Trends in Chemistry, 2020, 2, 43-56.	8.5	8
38	Additive manufacture of lightly crosslinked semicrystalline thiolâ€“enes for enhanced mechanical performance. Polymer Chemistry, 2020, 11, 39-46.	3.9	26
39	A photopolymerizable thermoplastic with tunable mechanical performance. Materials Horizons, 2020, 7, 835-842.	12.2	27
40	Nanoimprint lithography: Emergent materials and methods of actuation. Nano Today, 2020, 31, 100838.	11.9	81
41	Dynamic covalent chemistry (DCC) in dental restorative materials: Implementation of a DCC-based adaptive interface (AI) at the resinâ€“filler interface for improved performance. Dental Materials, 2020, 36, 53-59.	3.5	11
42	Vinyl sulfonamide based thermosetting composites via thiol-Michael polymerization. Dental Materials, 2020, 36, 249-256.	3.5	6
43	Combined Dynamic Network and Filler Interface Approach for Improved Adhesion and Toughness in Pressure-Sensitive Adhesives. ACS Applied Polymer Materials, 2020, 2, 1053-1060.	4.4	27
44	Messenger RNA enrichment using synthetic oligo(T) click nucleic acids. Chemical Communications, 2020, 56, 13987-13990.	4.1	10
45	Chemical recycling of poly(thiourethane) thermosets enabled by dynamic thiourethane bonds. Polymer Chemistry, 2020, 11, 6879-6883.	3.9	41
46	Effects of 1Â°, 2Â°, and 3Â° Thiols on Thiolâ€“Ene Reactions: Polymerization Kinetics and Mechanical Behavior. Macromolecules, 2020, 53, 5805-5815.	4.8	23
47	Reconfigurable and Spatially Programmable Chameleon Skinâ€Like Material Utilizing Light Responsive Covalent Adaptable Cholesteric Liquid Crystal Elastomers. Advanced Functional Materials, 2020, 30, 2003150.	14.9	66
48	Degradable and Resorbable Polymers. , 2020, , 167-190.		7
49	Phototriggered Base Amplification for Thiol-Michael Addition Reactions in Cross-linked Photopolymerizations with Efficient Dark Cure. Macromolecules, 2020, 53, 6331-6340.	4.8	16
50	Sequenceâ€Controlled Synthesis of Advanced Clickable Synthetic Oligonucleotides. Macromolecular Rapid Communications, 2020, 41, e2000327.	3.9	6
51	Holographic Photopolymer Material with High Dynamic Range (Î”<i>n</i>) via Thiolâ€“Ene Click Chemistry. ACS Applied Materials & Interfaces, 2020, 12, 44103-44109.	8.0	30
52	Click Nucleic Acidâ€“DNA Binding Behavior: Dependence on Length, Sequence, and Ionic Strength. Biomacromolecules, 2020, 21, 4205-4211.	5.4	10
53	Snakeskin-Inspired Elastomers with Extremely Low Coefficient of Friction under Dry Conditions. ACS Applied Materials & Interfaces, 2020, 12, 57450-57460.	8.0	14
54	Stress Relaxation via Covalent Dynamic Bonds in Nanogel-Containing Thiolâ€“Ene Resins. ACS Macro Letters, 2020, 9, 713-719.	4.8	12

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55	Covalent Adaptable Networks: Toward Stimuliâ€Responsive Dynamic Thermosets through Continuous Development and Improvements in Covalent Adaptable Networks (CANs) (Adv. Mater. 20/2020). Advanced Materials, 2020, 32, 2070158.	21.0	5
56	Development of thiourethanes as robust, reprocessable networks. Polymer, 2020, 202, 122715.	3.8	30
57	Evaluation of Aromatic Thiols as Photoinitiators. Macromolecules, 2020, 53, 5237-5247.	4.8	11
58	Enhancing the toughness of composites <i>via</i> dynamic thiolâ€"thioester exchange (TTE) at the resinâ€"filler interface. Polymer Chemistry, 2020, 11, 4760-4767.	3.9	13
59	Viscoelastic and thermoreversible networks crosslinked by non-covalent interactions between â€œclickableâ€•nucleic acid oligomers and DNA. Polymer Chemistry, 2020, 11, 2959-2968.	3.9	12
60	Efficient cellular uptake of click nucleic acid modified proteins. Chemical Communications, 2020, 56, 4820-4823.	4.1	4
61	Mixed mechanisms of bond exchange in covalent adaptable networks: monitoring the contribution of reversible exchange and reversible addition in thiolâ€"succinic anhydride dynamic networks. Polymer Chemistry, 2020, 11, 5365-5376.	3.9	35
62	Thiolâ€"Anhydride Dynamic Reversible Networks. Angewandte Chemie - International Edition, 2020, 59, 9345-9349.	13.8	57
63	Thiolâ€"Anhydride Dynamic Reversible Networks. Angewandte Chemie, 2020, 132, 9431-9435.	2.0	15
64	Introduction to chemistry for covalent adaptable networks. Polymer Chemistry, 2020, 11, 5295-5296.	3.9	30
65	Flocculation behavior and mechanisms of block copolymer architectures on silica microparticle and Chlorella vulgaris systems. Journal of Colloid and Interface Science, 2020, 567, 316-327.	9.4	8
66	Toward Stimuliâ€Responsive Dynamic Thermosets through Continuous Development and Improvements in Covalent Adaptable Networks (CANs). Advanced Materials, 2020, 32, e1906876.	21.0	273
67	Reaction Environment Effect on the Kinetics of Radical Thiolâ€"Ene Polymerizations in the Presence of Amines and Thiolate Anions. ACS Macro Letters, 2020, 9, 174-179.	4.8	18
68	Realizing High Refractive Index Thiol-X Materials: A General and Scalable Synthetic Approach. , 2019, 1, 582-588.		21
69	Thermal Metamorphosis in (Meth)acrylate Photopolymers: Stress Relaxation, Reshaping, and Second-Stage Reaction. Macromolecules, 2019, 52, 8114-8123.	4.8	6
70	Phosphate-Based Cross-Linked Polymers from Iodoâ€"ene Photopolymerization: Tuning Surface Wettability through Thiolâ€"ene Chemistry. ACS Macro Letters, 2019, 8, 213-217.	4.8	11
71	Independent Control of Singlet Oxygen and Radical Generation via Irradiation of a Two-Color Photosensitive Molecule. Macromolecules, 2019, 52, 4968-4978.	4.8	21
72	Tunable Mechanical Anisotropy, Crack Guiding, and Toughness Enhancement in Twoâ€Stage Reactive Polymer Networks. Advanced Engineering Materials, 2019, 21, 1900578.	3.5	16

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73	Photo-responsive liposomes composed of spiropyran-containing triazole-phosphatidylcholine: investigation of merocyanine-stacking effects on liposomeâ€“fiber assembly-transition. Soft Matter, 2019, 15, 3740-3750.	2.7	18
74	Enabling Applications of Covalent Adaptable Networks. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 175-198.	6.8	134
75	Click Nucleic Acid Mediated Loading of Prodrug Activating Enzymes in PEGâ€“PLGA Nanoparticles for Combination Chemotherapy. Biomacromolecules, 2019, 20, 1683-1690.	5.4	14
76	Hybrid Cerasomes Composed of Phosphatidylcholines and Silica Networks for the Construction of Vesicular Materials with Functionalized Shells. ACS Applied Nano Materials, 2019, 2, 7549-7558.	5.0	5
77	Catalyst-free, aza-Michael polymerization of hydrazides: polymerizability, kinetics, and mechanistic origin of an Î±-effect. Polymer Chemistry, 2019, 10, 5790-5804.	3.9	9
78	Multifunctional monomers based on vinyl sulfonates and vinyl sulfonamides for crosslinking thiol-Michael polymerizations: monomer reactivity and mechanical behavior. Chemical Communications, 2018, 54, 3034-3037.	4.1	13
79	Liposomes formed from photo-cleavable phospholipids: <i>in situ</i> formation and photo-induced enhancement in permeability. RSC Advances, 2018, 8, 14669-14675.	3.6	14
80	Cytocompatibility and Cellular Internalization of PEGylated â€œClickableâ€•Nucleic Acid Oligomers. Biomacromolecules, 2018, 19, 2535-2541.	5.4	8
81	Photopolymerized dynamic hydrogels with tunable viscoelastic properties through thioester exchange. Biomaterials, 2018, 178, 496-503.	11.4	142
82	Photopolymerized Triazoleâ€Based Glassy Polymer Networks with Superior Tensile Toughness. Advanced Functional Materials, 2018, 28, 1801095.	14.9	23
83	Dental Restorative Materials Based on Thiol-Michael Photopolymerization. Journal of Dental Research, 2018, 97, 530-536.	5.2	21
84	Amine Induced Retardation of the Radical-Mediated Thiolâ€“Ene Reaction via the Formation of Metastable Disulfide Radical Anions. Journal of Organic Chemistry, 2018, 83, 2912-2919.	3.2	32
85	High Dynamic Range (Î”<i>n</i>) Two-Stage Photopolymers via Enhanced Solubility of a High Refractive Index Acrylate Writing Monomer. ACS Applied Materials & Interfaces, 2018, 10, 1217-1224.	8.0	39
86	Adaptable liquid crystal elastomers with transesterification-based bond exchange reactions. Soft Matter, 2018, 14, 951-960.	2.7	92
87	Evaluation of biofilm formation on novel copper-catalyzed azide-alkyne cycloaddition (CuAAC)-based resins for dental restoratives. Dental Materials, 2018, 34, 657-666.	3.5	13
88	Fully recoverable rigid shape memory foam based on copper-catalyzed azideâ€“alkyne cycloaddition (CuAAC) using a salt leaching technique. Polymer Chemistry, 2018, 9, 121-130.	3.9	12
89	Photoinduced Pinocytosis for Artificial Cell and Protocell Systems. Chemistry of Materials, 2018, 30, 8757-8763.	6.7	8
90	Implementation of two distinct wavelengths to induce multistage polymerization in shape memory materials and nanoimprint lithography. Polymer, 2018, 156, 162-168.	3.8	17

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91	Dynamic and Responsive DNA-like Polymers. Journal of the American Chemical Society, 2018, 140, 13594-13598.	13.7	45
92	Productive Exchange of Thiols and Thioesters to Form Dynamic Polythioester-Based Polymers. ACS Macro Letters, 2018, 7, 1312-1316.	4.8	40
93	Secondary Photocrosslinking of Click Hydrogels To Probe Myoblast Mechanotransduction in Three Dimensions. Journal of the American Chemical Society, 2018, 140, 11585-11588.	13.7	64
94	New Generation of Clickable Nucleic Acids: Synthesis and Active Hybridization with DNA. Biomacromolecules, 2018, 19, 4139-4146.	5.4	16
95	Formation of lipid vesicles<i>in situ</i>utilizing the thiol-Michael reaction. Soft Matter, 2018, 14, 7645-7652.	2.7	5
96	Post-synthetic functionalization of a polysulfone scaffold with hydrazone-linked functionality. Polymer Chemistry, 2018, 9, 3791-3797.	3.9	3
97	Production of dynamic lipid bilayers using the reversible thiolâ€“thioester exchange reaction. Chemical Communications, 2018, 54, 8108-8111.	4.1	8
98	Dynamic Covalent Chemistry at Interfaces: Development of Tougher, Healable Composites through Stress Relaxation at the Resinâ€“Silica Nanoparticles Interface. Advanced Materials Interfaces, 2018, 5, 1800511.	3.7	35
99	<i>o</i>-Nitrobenzyl-Based Photobase Generators: Efficient Photoinitiators for Visible-Light Induced Thiol-Michael Addition Photopolymerization. ACS Macro Letters, 2018, 7, 852-857.	4.8	35
100	Effects of Photodegradable <i>o</i>â€Nitrobenzyl Nanogels on the Photopolymerization Process. Macromolecular Materials and Engineering, 2018, 303, 1800206.	3.6	2
101	Mechanistic Modeling of the Thiolâ€“Michael Addition Polymerization Kinetics: Structural Effects of the Thiol and Vinyl Monomers. Macromolecules, 2018, 51, 5979-5988.	4.8	36
102	Reconfigurable LC Elastomers: Using a Thermally Programmable Monodomain To Access Two-Way Free-Standing Multiple Shape Memory Polymers. Macromolecules, 2018, 51, 5812-5819.	4.8	92
103	Recyclable and repolymerizable thiolâ€“X photopolymers. Materials Horizons, 2018, 5, 1042-1046.	12.2	56
104	Assessment of TEMPO as a thermally activatable base generator and its use in initiation of thermally-triggered thiol-Michael addition polymerizations. Polymer Chemistry, 2018, 9, 4294-4302.	3.9	15
105	Contact Line Pinning Is Not Required for Nanobubble Stability on Copolymer Brushes. Journal of Physical Chemistry Letters, 2018, 9, 4239-4244.	4.6	23
106	Bistable and photoswitchable states of matter. Nature Communications, 2018, 9, 2804.	12.8	111
107	A readily programmable, fully reversible shape-switching material. Science Advances, 2018, 4, eaat4634.	10.3	146
108	A user's guide to the thiol-thioester exchange in organic media: scope, limitations, and applications in material science. Polymer Chemistry, 2018, 9, 4523-4534.	3.9	78

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109	A supramolecular hydrogel prepared from a thymine-containing artificial nucleolipid: study of assembly and lyotropic mesophases. Soft Matter, 2018, 14, 7045-7051.	2.7	10
110	Thermoreversible Folding as a Route to the Unique Shape-Memory Character in Ductile Polymer Networks. ACS Applied Materials & Interfaces, 2018, 10, 22739-22745.	8.0	13
111	High dynamic range two-stage photopolymer materials through enhanced solubility high refractive index writing monomers. , 2018, , .		0
112	Photoinduced Tetrazoleâ€Based Functionalization of Offâ€Stoichiometric Clickable Microparticles. Advanced Functional Materials, 2017, 27, 1605317.	14.9	20
113	Photoinduced Plasticity in Crossâ€Linked Liquid Crystalline Networks. Advanced Materials, 2017, 29, 1606509.	21.0	103
114	Synthesis and Assembly of Clickâ€Nucleicâ€Acidâ€Containing PEGâ€"PLGA Nanoparticles for DNA Delivery. Advanced Materials, 2017, 29, 1700743.	21.0	71
115	Light-Stimulated Permanent Shape Reconfiguration in Cross-Linked Polymer Microparticles. ACS Applied Materials & Interfaces, 2017, 9, 14422-14428.	8.0	26
116	Holographic recording in two-stage networks. Proceedings of SPIE, 2017, , .	0.8	0
117	Polymer Nanoparticles: Synthesis and Assembly of Clickâ€Nucleicâ€Acidâ€Containing PEGâ€"PLGA Nanoparticles for DNA Delivery (Adv. Mater. 24/2017). Advanced Materials, 2017, 29, .	21.0	1
118	Application of an additionâ€"fragmentation-chain transfer monomer in di(meth)acrylate network formation to reduce polymerization shrinkage stress. Polymer Chemistry, 2017, 8, 4339-4351.	3.9	60
119	Efficient Polymerâ€Polymer Conjugation via Thiolâ€ene Click Reaction. Macromolecular Chemistry and Physics, 2017, 218, 1700073.	2.2	67
120	Kinetics and mechanics of photo-polymerized triazole-containing thermosetting composites via the copper(I)-catalyzed azide-alkyne cycloaddition. Dental Materials, 2017, 33, 621-629.	3.5	14
121	Wavelength-Selective Sequential Polymer Network Formation Controlled with a Two-Color Responsive Initiation System. Macromolecules, 2017, 50, 5652-5660.	4.8	62
122	Water-soluble clickable nucleic acid (CNA) polymer synthesis by functionalizing the pendant hydroxyl. Chemical Communications, 2017, 53, 10156-10159.	4.1	10
123	Pristine Polysulfone Networks as a Class of Polysulfide-Derived High-Performance Functional Materials. Chemistry of Materials, 2016, 28, 5102-5109.	6.7	34
124	Scaffolded Thermally Remendable Hybrid Polymer Networks. Advanced Functional Materials, 2016, 26, 1477-1485.	14.9	74
125	Remoldable Thiolâ€"Ene Vitrimers for Photopatterning and Nanoimprint Lithography. Macromolecules, 2016, 49, 8905-8913.	4.8	81
126	Initiatorless Photopolymerization of Liquid Crystal Monomers. ACS Applied Materials & Interfaces, 2016, 8, 28040-28046.	8.0	27

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127	Reduced shrinkage stress via photo-initiated copper(I)-catalyzed cycloaddition polymerizations of azide-alkyne resins. Dental Materials, 2016, 32, 1332-1342.	3.5	41
128	Photoinduced Vesicle Formation via the Copper-Catalyzed Azideâ€"Alkyne Cycloaddition Reaction. Langmuir, 2016, 32, 8195-8201.	3.5	15
129	Radical mediated thiol-ene/yne dispersion polymerizations. Polymer, 2016, 105, 180-186.	3.8	17
130	Mechanistic Kinetic Modeling of Thiolâ€"Michael Addition Photopolymerizations via Photocaged â€œSuperbaseâ€•Generators: An Analytical Approach. Macromolecules, 2016, 49, 8061-8074.	4.8	28
131	Rigid Origami via Optical Programming and Deferred Self-Folding of a Two-Stage Photopolymer. ACS Applied Materials & Interfaces, 2016, 8, 29658-29667.	8.0	16
132	Photoresponsive Fiber Array: Toward Mimicking the Collective Motion of Cilia for Transport Applications. Advanced Functional Materials, 2016, 26, 5322-5327.	14.9	116
133	Visible-Light-Initiated Thiol-Michael Addition Polymerizations with Coumarin-Based Photobase Generators: Another Photoclick Reaction Strategy. ACS Macro Letters, 2016, 5, 229-233.	4.8	58
134	Thermomechanical Formationâ€"Structureâ€"Property Relationships in Photopolymerized Copper-Catalyzed Azideâ€"Alkyne (CuAAC) Networks. Macromolecules, 2016, 49, 1191-1200.	4.8	36
135	Ruthenium photoredox-triggered phospholipid membrane formation. Organic and Biomolecular Chemistry, 2016, 14, 5555-5558.	2.8	23
136	UV-Vis/FT-NIR in situ monitoring of visible-light induced polymerization of PEGDA hydrogels initiated by eosin/triethanolamine/O₂. Polymer Chemistry, 2016, 7, 592-602.	3.9	28
137	Kinetics of bulk photo-initiated copper(<scp>i</scp>)-catalyzed azideâ€"alkyne cycloaddition (CuAAC) polymerizations. Polymer Chemistry, 2016, 7, 603-612.	3.9	52
138	Clickable Nucleic Acids: Sequenceâ€Controlled Periodic Copolymer/Oligomer Synthesis by Orthogonal Thiolâ€X Reactions. Angewandte Chemie - International Edition, 2015, 54, 14462-14467.	13.8	75
139	Effects of oxygen on light activation in covalent adaptable network polymers. Soft Matter, 2015, 11, 6134-6144.	2.7	16
140	Tailorable and programmable liquid-crystalline elastomers using a two-stage thiolâ€"acrylate reaction. RSC Advances, 2015, 5, 18997-19001.	3.6	342
141	Multiple shape memory polymers based on laminates formed from thiol-click chemistry based polymerizations. Soft Matter, 2015, 11, 6852-6858.	2.7	15
142	Ester-free thiol-X resins: new materials with enhanced mechanical behavior and solvent resistance. Polymer Chemistry, 2015, 6, 2234-2240.	3.9	48
143	Photo-induced bending in a light-activated polymer laminated composite. Soft Matter, 2015, 11, 2673-2682.	2.7	55
144	Thiol-Michael addition miniemulsion polymerizations: functional nanoparticles and reactive latex films. Polymer Chemistry, 2015, 6, 3758-3763.	3.9	29

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145	Coupled UVâ€“Vis/FTâ€“NIR Spectroscopy for Kinetic Analysis of Multiple Reaction Steps in Polymerizations. Macromolecules, 2015, 48, 6781-6790.	4.8	20
146	Experimental and theoretical photoluminescence studies in nucleic acid assembled gold-upconverting nanoparticle clusters. Nanoscale, 2015, 7, 17254-17260.	5.6	28
147	Ester-free thiolâ€“ene dental restorativesâ€”Part B: Composite development. Dental Materials, 2015, 31, 1263-1270.	3.5	29
148	Ester-free thiolâ€“ene dental restorativesâ€”Part A: Resin development. Dental Materials, 2015, 31, 1255-1262.	3.5	71
149	Monodispersity/Narrow Polydispersity Cross-Linked Microparticles Prepared by Step-Growth Thiolâ€“Michael Addition Dispersion Polymerizations. Macromolecules, 2015, 48, 8461-8470.	4.8	42
150	Influence of small amounts of additionâ€fragmentation capable monomers on polymerizationâ€induced shrinkage stress. Journal of Polymer Science Part A, 2014, 52, 1315-1321.	2.3	6
151	Facile Image Patterning via Sequential Thiolâ€“Michael/Thiolâ€“Yne Click Reactions. Chemistry of Materials, 2014, 26, 6819-6826.	6.7	57
152	The Thiol-Michael Addition Click Reaction: A Powerful and Widely Used Tool in Materials Chemistry. Chemistry of Materials, 2014, 26, 724-744.	6.7	1,193
153	Thiol-ene functionalized siloxanes for use as elastomeric dental impression materials. Dental Materials, 2014, 30, 449-455.	3.5	24
154	Click Chemistry in Materials Science. Advanced Functional Materials, 2014, 24, 2572-2590.	14.9	514
155	Click Chemistry: Click Chemistry in Materials Science (Adv. Funct. Mater. 18/2014). Advanced Functional Materials, 2014, 24, 2566-2566.	14.9	2
156	Monodisperse functional microspheres from step-growth â€œclickâ€•polymerizations: preparation, functionalization and implementation. Materials Horizons, 2014, 1, 535-539.	12.2	53
157	Smart shape changing and shape morphing polymeric materials. Polymer, 2014, 55, 5847-5848.	3.8	7
158	Reconfigurable surface patterns on covalent adaptive network polymers using nanoimprint lithography. Polymer, 2014, 55, 5933-5937.	3.8	23
159	Photo-mediated copper(I)-catalyzed azide-alkyne cycloaddition (CuAAC) â€œclickâ€•reactions for forming polymer networks as shape memory materials. Polymer, 2014, 55, 5880-5884.	3.8	48
160	Photo-CuAAC Induced Wrinkle Formation in a Thiolâ€“Acrylate Elastomer via Sequential Click Reactions. Chemistry of Materials, 2014, 26, 5303-5309.	6.7	26
161	Synthesis of novel trithiocarbonate and allyl sulfide containing monomers. Polymer Chemistry, 2014, 5, 62-68.	3.9	20
162	Programmable Mechanically Assisted Geometric Deformations of Glassy Two-Stage Reactive Polymeric Materials. ACS Applied Materials & Interfaces, 2014, 6, 6111-6119.	8.0	26

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163	New directions in the chemistry of shape memory polymers. Polymer, 2014, 55, 5849-5872.	3.8	167
164	Spatial and Temporal Control of Thiol-Michael Addition via Photocaged Superbase in Photopatterning and Two-Stage Polymer Networks Formation. Macromolecules, 2014, 47, 6159-6165.	4.8	114
165	Visible-Light Initiated Thiol-Michael Addition Photopolymerization Reactions. ACS Macro Letters, 2014, 3, 315-318.	4.8	71
166	Facile and Efficient Synthesis of Dendrimers and One-Pot Preparation of Dendriticâ€"Linear Polymer Conjugates via a Single Chemistry: Utilization of Kinetically Selective Thiolâ€"Michael Addition Reactions. Macromolecules, 2014, 47, 4894-4900.	4.8	37
167	Evaluation and development of novel photoinitiator complexes for photoinitiating the copper-catalyzed azideâ€"alkyne cycloaddition reaction. Polymer Chemistry, 2014, 5, 1874-1882.	3.9	55
168	Triple Shape Memory Materials Incorporating Two Distinct Polymer Networks Formed by Selective Thiolâ€"Michael Addition Reactions. Macromolecules, 2014, 47, 4949-4954.	4.8	88
169	Controllable Reversible Additionâ€"Fragmentation Termination Monomers for Advances in Photochemically Controlled Covalent Adaptable Networks. Macromolecules, 2014, 47, 907-915.	4.8	32
170	Photoinduced Diffusion Through Polymer Networks. Advanced Materials, 2014, 26, 6497-6502.	21.0	17
171	Monochromatic Visible Light â€œPhotoinitibitorâ€: Janus-Faced Initiation and Inhibition for Storage of Colored 3D Images. Journal of the American Chemical Society, 2014, 136, 8855-8858.	13.7	118
172	A Dual-Cure, Solid-State Photoresist Combining a Thermoreversible Dielsâ€"Alder Network and a Chain Growth Acrylate Network. Macromolecules, 2014, 47, 3473-3482.	4.8	42
173	High Performance Graded Rainbow Holograms via Two-Stage Sequential Orthogonal Thiolâ€"Click Chemistry. Macromolecules, 2014, 47, 2306-2315.	4.8	81
174	Development of Glassy Stepâ€Growth Thiolâ€Vinyl Sulfone Polymer Networks. Macromolecular Rapid Communications, 2014, 35, 1497-1502.	3.9	32
175	The power of light in polymer science: photochemical processes to manipulate polymer formation, structure, and properties. Polymer Chemistry, 2014, 5, 2187-2201.	3.9	295
176	The reciprocity law concerning light dose relationships applied to BisGMA/TEGDMA photopolymers: Theoretical analysis and experimental characterization. Dental Materials, 2014, 30, 605-612.	3.5	74
177	A photoviscoplastic model for photoactivated covalent adaptive networks. Journal of the Mechanics and Physics of Solids, 2014, 70, 84-103.	4.8	48
178	Development of a Maleimide Amino Acid for Use as a Tool for Peptide Conjugation and Modification. International Journal of Peptide Research and Therapeutics, 2013, 19, 265-274.	1.9	3
179	A novel copper containing photoinitiator, copper(ii) acylphosphinate, and its application in both the photomediated CuAAC reaction and in atom transfer radical polymerization. Chemical Communications, 2013, 49, 7950.	4.1	64
180	Evaluation of thiolâ€ene click chemistry in functionalized polysiloxanes. Journal of Polymer Science Part A, 2013, 51, 1749-1757.	2.3	27

#	Article	IF	Citations
181	Photopolymerization Reactions Using the Photoinitiated Copper (I)â€Catalyzed Azideâ€Alkyne Cycloaddition (CuAAC) Reaction. Advanced Materials, 2013, 25, 2024-2028.	21.0	149
182	Temporal Control of Thiol-Click Chemistry. Chemistry of Materials, 2013, 25, 3897-3901.	6.7	52
183	A Dielsâ€“Alder modulated approach to control and sustain the release of dexamethasone and induce osteogenic differentiation of human mesenchymal stem cells. Biomaterials, 2013, 34, 4150-4158.	11.4	72
184	Understanding the process of healing of thermoreversible covalent adaptable networks. Polymer Chemistry, 2013, 4, 4974-4979.	3.9	36
185	Redox initiation of bulk thiolâ€“ene polymerizations. Polymer Chemistry, 2013, 4, 1167-1175.	3.9	37
186	Formation of Coreâ€“Shell Particles by Interfacial Radical Polymerization Initiated by a Glucose Oxidase-Mediated Redox System. Chemistry of Materials, 2013, 25, 761-767.	6.7	43
187	Relative reactivity and selectivity of vinyl sulfones and acrylates towards the thiolâ€“Michael addition reaction and polymerization. Polymer Chemistry, 2013, 4, 1048-1055.	3.9	98
188	Covalent adaptable networks: smart, reconfigurable and responsive network systems. Chemical Society Reviews, 2013, 42, 7161-7173.	38.1	869
189	A new photoclick reaction strategy: photo-induced catalysis of the thiol-Michael addition via a caged primary amine. Chemical Communications, 2013, 49, 4504-4506.	4.1	79
190	Dielsâ€“Alder Mediated Controlled Release from a Poly(ethylene glycol) Based Hydrogel. Biomacromolecules, 2013, 14, 538-547.	5.4	122
191	A Comprehensive Kinetic Model of Freeâ€Radicalâ€Mediated Interfacial Polymerization. Macromolecular Theory and Simulations, 2013, 22, 115-126.	1.4	5
192	Fabrication and Characterization of Novel High Modulus, Two-Stage Reactive Thiol-Acrylate Composite Polymer Systems. Macromolecular Symposia, 2013, 329, 101-107.	0.7	13
193	Hydrodynamic separation of particles using pinchedâ€flow fractionation. AIChE Journal, 2013, 59, 3444-3457.	3.6	15
194	Monolithic integration of optical waveguide and fluidic channel structures in a thiol-ene/methacrylate photopolymer. Optical Materials Express, 2012, 2, 1548.	3.0	16
195	3D Photofixation Lithography in Dielsâ€“Alder Networks. Macromolecular Rapid Communications, 2012, 33, 2092-2096.	3.9	57
196	Stress Relaxation via Additionâ€“Fragmentation Chain Transfer in High <i>T</i>_g, High Conversion Methacrylate-Based Systems. Macromolecules, 2012, 45, 5640-5646.	4.8	53
197	Kinetics of interfacial radical polymerization initiated by a glucose-oxidase mediated redox system. Biomaterials, 2012, 33, 6909-6914.	11.4	31
198	Stress relaxation of trithiocarbonate-dimethacrylate-based dental composites. Dental Materials, 2012, 28, 888-893.	3.5	30

#	Article	IF	Citations
199	Novel dental restorative materials having low polymerization shrinkage stress via stress relaxation by addition-fragmentation chain transfer. Dental Materials, 2012, 28, 1113-1119.	3.5	24
200	The emerging role of click reactions in chemical and biological engineering. AICHE Journal, 2012, 58, 2952-2965.	3.6	26
201	Nitrogen-Centered Nucleophile Catalyzed Thiol-Vinylsulfone Addition, Another Thiol-ene â€œClickâ€• Reaction. ACS Macro Letters, 2012, 1, 811-814.	4.8	70
202	Using hyperbranched oligomer functionalized glass fillers to reduce shrinkage stress. Dental Materials, 2012, 28, 1004-1011.	3.5	34
203	A Simple Relationship Relating Linear Viscoelastic Properties and Chemical Structure in a Model Dielsâ€“Alder Polymer Network. Macromolecules, 2012, 45, 7634-7641.	4.8	66
204	Effect of Cross-Link Density on Photoplasticity of Epoxide Networks Containing Allylic Dithioether Moieties. Macromolecules, 2012, 45, 9734-9741.	4.8	22
205	Stress Reduction and <i>T</i>_g Enhancement in Ternary Thiolâ€“Yneâ€“Methacrylate Systems via Additionâ€“Fragmentation Chain Transfer. Macromolecules, 2012, 45, 5647-5652.	4.8	17
206	Synthesis and characterization of thiolâ€“ene functionalized siloxanes and evaluation of their crosslinked network properties. Journal of Polymer Science Part A, 2012, 50, 4325-4333.	2.3	34
207	Antigen-responsive, microfluidic valves for single use diagnostics. Lab on A Chip, 2012, 12, 708.	6.0	16
208	Twoâ€Stage Reactive Polymer Network Forming Systems. Advanced Functional Materials, 2012, 22, 1502-1510.	14.9	127
209	Kinetic and thermodynamic measurements for the facile property prediction of dielsâ€“alderâ€conjugated material behavior. AICHE Journal, 2012, 58, 3545-3552.	3.6	22
210	Covalent Adaptable Networks: Reversible Bond Structures Incorporated in Polymer Networks. Angewandte Chemie - International Edition, 2012, 51, 4272-4274.	13.8	369
211	Alignment of multi-layered muscle cells within three-dimensional hydrogel macrochannels. Acta Biomaterialia, 2012, 8, 2193-2202.	8.3	35
212	Enhanced two-stage reactive polymer network forming systems. Polymer, 2012, 53, 2429-2434.	3.8	38
213	Reducing Shrinkage Stress of Dimethacrylate Networks by Reversible Additionâ€“Fragmentation Chain Transfer. Macromolecular Chemistry and Physics, 2012, 213, 198-204.	2.2	45
214	Soft-lithography fabrication of microfluidic features using thiol-ene formulations. Lab on A Chip, 2011, 11, 2772.	6.0	59
215	Recent Advances and Developments in Composite Dental Restorative Materials. Journal of Dental Research, 2011, 90, 402-416.	5.2	542
216	Relationship between Glass Transition Temperature and Polymerization Temperature for Cross-Linked Photopolymers. Macromolecules, 2011, 44, 490-494.	4.8	39

#	Article	IF	Citations
217	Principles of voxel refinement in optical direct write lithography. Journal of Materials Chemistry, 2011, 21, 14150.	6.7	19
218	Photodegradable, Photoadaptable Hydrogels via Radical-Mediated Disulfide Fragmentation Reaction. Macromolecules, 2011, 44, 2444-2450.	4.8	307
219	Synthesis of Acyclic, Symmetrical 3,3'-Allyl Dithioethers, from the Alkylation of 3-Mercapto-2-mercaptomethylprop-1-ene in the Presence of Sodium Hydride. Australian Journal of Chemistry, 2011, 64, 1083.	0.9	10
220	Hybrid Organic/Inorganic Thiolâ€"Ene-Based Photopolymerized Networks. Macromolecules, 2011, 44, 7520-7529.	4.8	59
221	Induction Curing of Thiolâ€"Acrylate and Thiolâ€"Ene Composite Systems. Macromolecules, 2011, 44, 4988-4996.	4.8	18
222	Reaction Kinetics and Reduced Shrinkage Stress of Thiolâ€"Yneâ€"Methacrylate and Thiolâ€"Yneâ€"Acrylate Ternary Systems. Macromolecules, 2011, 44, 9084-9090.	4.8	46
223	Spatial and temporal control of the alkyneâ€"azide cycloaddition by photoinitiated Cu(II) reduction. Nature Chemistry, 2011, 3, 256-259.	13.6	342
224	Thiolâ€"eneâ€"methacrylate composites as dental restorative materials. Dental Materials, 2011, 27, 267-272.	3.5	77
225	Fluorescent polymeric nanocomposite films generated by surface-mediated photoinitiation of polymerization. Journal of Nanoparticle Research, 2011, 13, 331-346.	1.9	16
226	Functionalized PEG hydrogels through reactive dip-coating for the formation of immunoactive barriers. Biomaterials, 2011, 32, 6204-6212.	11.4	51
227	Mechanophotopatterning on a Photoresponsive Elastomer. Advanced Materials, 2011, 23, 1977-1981.	21.0	124
228	Photopatterning: Mechanophotopatterning on a Photoresponsive Elastomer (Adv. Mater. 17/2011). Advanced Materials, 2011, 23, 1976-1976.	21.0	0
229	Glucose oxidaseâ€mediated polymerization as a platform for dualâ€mode signal amplification and biodetection. Biotechnology and Bioengineering, 2011, 108, 1521-1528.	3.3	48
230	Development of quantitative structureâ€"activity relationships for explanatory modeling of fast reacting (meth)acrylate monomers bearing novel functionality. Journal of Molecular Graphics and Modelling, 2011, 29, 763-772.	2.4	7
231	Temperature Dependent Stress Relaxation in a Model Dielsâ€"Alder Network. Australian Journal of Chemistry, 2011, 64, 1094.	0.9	15
232	A thiol-ene/methacrylate-based polymer for creating integrated optofluidic devices. , 2011, , .		2
233	Sensitive Immunofluorescent Staining of Cells via Generation of Fluorescent Nanoscale Polymer Films in Response to Biorecognition. Journal of Histochemistry and Cytochemistry, 2011, 59, 76-87.	2.5	22
234	Reaction Rates and Mechanisms for Radical, Photoinitated Addition of Thiols to Alkynes, and Implications for Thiolâ^'Yne Photopolymerizations and Click Reactions. Macromolecules, 2010, 43, 4113-4119.	4.8	156

#	Article	IF	Citations
235	Inhibition of Staphylococcus epidermidis Biofilms Using Polymerizable Vancomycin Derivatives. Clinical Orthopaedics and Related Research, 2010, 468, 2081-2091.	1.5	46
236	Investigation of thiol-ene and thiol-eneâ€"methacrylate based resins as dental restorative materials. Dental Materials, 2010, 26, 21-28.	3.5	111
237	Properties of methacrylateâ€"thiolâ€"ene formulations as dental restorative materials. Dental Materials, 2010, 26, 799-806.	3.5	87
238	Covalent adaptable networks as dental restorative resins: Stress relaxation by additionâ€"fragmentation chain transfer in allyl sulfide-containing resins. Dental Materials, 2010, 26, 1010-1016.	3.5	52
239	Externally Triggered Healing of a Thermoreversible Covalent Network via Selfâ€Limited Hysteresis Heating. Advanced Materials, 2010, 22, 2784-2787.	21.0	144
240	Mechanical Properties of Cellularly Responsive Hydrogels and Their Experimental Determination. Advanced Materials, 2010, 22, 3484-3494.	21.0	394
241	Optimization of multicomponent photopolymer formulations using highâ€throughput analysis and kinetic modeling. AIChE Journal, 2010, 56, 1262-1269.	3.6	0
242	Thiolâ€"Ene Click Chemistry. Angewandte Chemie - International Edition, 2010, 49, 1540-1573.	13.8	3,333
243	Photopolymerized thiol-ene systems as shape memory polymers. Polymer, 2010, 51, 4383-4389.	3.8	124
244	Development of fluorescent polymerization-based signal amplification for sensitive and non-enzymatic biodetection in antibody microarrays. Acta Biomaterialia, 2010, 6, 83-89.	8.3	31
245	Thiolâ€isocyanateâ€acrylate ternary networks by selective thiolâ€click chemistry. Journal of Polymer Science Part A, 2010, 48, 3255-3264.	2.3	48
246	Covalent Adaptable Networks (CANs): A Unique Paradigm in Cross-Linked Polymers. Macromolecules, 2010, 43, 2643-2653.	4.8	709
247	Mechanism and Implementation of Oxygen Inhibition Suppression in Photopolymerizations by Competitive Photoactivation of a Singlet Oxygen Sensitizer. Macromolecules, 2010, 43, 7964-7970.	4.8	46
248	Formation of Three-Dimensional Hydrogel Multilayers Using Enzyme-Mediated Redox Chain Initiation. ACS Applied Materials & Interfaces, 2010, 2, 1963-1972.	8.0	55
249	Photoinitiator Nucleotide for Quantifying Nucleic Acid Hybridization. Biomacromolecules, 2010, 11, 1133-1138.	5.4	13
250	Synthesis, Thiolâ^'Yne â€œClickâ€•Photopolymerization, and Physical Properties of Networks Derived from Novel Multifunctional Alkynes. Macromolecules, 2010, 43, 4937-4942.	4.8	114
251	Thiol-yne click chemistry: A powerful and versatile methodology for materials synthesis. Journal of Materials Chemistry, 2010, 20, 4745.	6.7	448
252	Thiol-click chemistry: a multifaceted toolbox for small molecule and polymer synthesis. Chemical Society Reviews, 2010, 39, 1355.	38.1	1,426

#	Article	IF	Citations
253	Photo-Plasticity in Thiol-ene Network Polymers - A Review. Macromolecular Symposia, 2010, 291-292, 50-65.	0.7	14
254	Thiolâ^'Isocyanateâ^'Ene Ternary Networks by Sequential and Simultaneous Thiol Click Reactions. Chemistry of Materials, 2010, 22, 2616-2625.	6.7	82
255	Stress Relaxation by Additionâ^'Fragmentation Chain Transfer in Highly Cross-Linked Thiolâ^'Yne Networks. Macromolecules, 2010, 43, 10188-10190.	4.8	71
256	Evaluation of highly reactive mono-methacrylates as reactive diluents for BisGMA-based dental composites. Dental Materials, 2009, 25, 33-38.	3.5	31
257	A Versatile Synthetic Extracellular Matrix Mimic via Thiolâ€Norbornene Photopolymerization. Advanced Materials, 2009, 21, 5005-5010.	21.0	578
258	(Meth)acrylate vinyl ester hybrid polymerizations. Journal of Polymer Science Part A, 2009, 47, 2509-2517.	2.3	20
259	Influence of the secondary functionality on the radicalâ€vinyl chemistry of highly reactive monoacrylates. Journal of Polymer Science Part A, 2009, 47, 4859-4870.	2.3	12
260	Mechanism of cyclic dye regeneration during eosinâ€sensitized photoinitiation in the presence of polymerization inhibitors. Journal of Polymer Science Part A, 2009, 47, 6083-6094.	2.3	61
261	Photomechanics of light-activated polymers. Journal of the Mechanics and Physics of Solids, 2009, 57, 1103-1121.	4.8	138
262	Photoinitiated polymerization of PEG-diacrylate with lithium phenyl-2,4,6-trimethylbenzoylphosphinate: polymerization rate and cytocompatibility. Biomaterials, 2009, 30, 6702-6707.	11.4	951
263	Visual, base-specific detection of nucleic acid hybridization using polymerization-based amplification. Analytical Biochemistry, 2009, 386, 285-287.	2.4	20
264	FTIR Microscopy for Kinetic Measurements in Highâ€Throughput Photopolymerization: Experimental Design and Application. Macromolecular Reaction Engineering, 2009, 3, 522-528.	1.5	10
265	Rapid Solid-State Photopolymerization of Cyclic Acetal-Containing Acrylates. Macromolecules, 2009, 42, 2433-2437.	4.8	17
266	Polymerizable Vancomycin Derivatives for Bactericidal Biomaterial Surface Modification: Structureâ^'Function Evaluation. Biomacromolecules, 2009, 10, 2221-2234.	5.4	64
267	Enzyme-Mediated Redox Initiation for Hydrogel Generation and Cellular Encapsulation. Biomacromolecules, 2009, 10, 3114-3121.	5.4	56
268	Stress Relaxation via Additionâ^'Fragmentation Chain Transfer in a Thiol-ene Photopolymerization. Macromolecules, 2009, 42, 2551-2556.	4.8	135
269	Two-Color Single-Photon Photoinitiation and Photoinhibition for Subdiffraction Photolithography. Science, 2009, 324, 913-917.	12.6	353
270	Thiolâ^'Yne Photopolymerizations: Novel Mechanism, Kinetics, and Step-Growth Formation of Highly Cross-Linked Networks. Macromolecules, 2009, 42, 211-217.	4.8	357

#	Article	IF	Citations
271	Antigen detection using polymerization-based amplification. Lab on A Chip, 2009, 9, 653-656.	6.0	43
272	Dental amalgam and mercury myths. Physics Today, 2009, 62, 14-14.	0.3	0
273	Constitutive model for photo-mechanical behaviors of photo-induced shape memory polymers. Proceedings of SPIE, 2009, , .	0.8	1
274	Characterization of the Assaying Methods in Polymerization-Based Amplification of Surface Biomarkers. Australian Journal of Chemistry, 2009, 62, 877.	0.9	12
275	Using living radical polymerization to enable facile incorporation of materials in microfluidic cell culture devices. Biomaterials, 2008, 29, 2228-2236.	11.4	23
276	Quantitative evaluation of oligonucleotide surface concentrations using polymerization-based amplification. Analytical and Bioanalytical Chemistry, 2008, 392, 167-175.	3.7	24
277	Photopolymerization kinetics, photorheology and photoplasticity of thiolâ€"eneâ€"allylic sulfide networks. Polymer International, 2008, 57, 469-478.	3.1	43
278	Highâ€throughput kinetic analysis of acrylate and thiolâ€ene photopolymerization using temperature and exposure time gradients. Journal of Polymer Science Part A, 2008, 46, 1502-1509.	2.3	32
279	Enhanced reactivity of monovinyl acrylates characterized by secondary functionalities toward photopolymerization and Michael addition: Contribution of intramolecular effects. Journal of Polymer Science Part A, 2008, 46, 3452-3458.	2.3	17
280	Synthesis, characterization and cleavage of linear polymers attached to silica nanoparticles formed using thiolâ€acrylate conjugate addition reactions. Journal of Polymer Science Part A, 2008, 46, 6896-6906.	2.3	29
281	Modifying network chemistry in thiolâ€acrylate photopolymers through postpolymerization functionalization to control cellâ€material interactions. Journal of Biomedical Materials Research - Part A, 2008, 86A, 23-30.	4.0	41
282	Formation and Surface Modification of Nanopatterned Thiolâ€ene Substrates using Step and Flash Imprint Lithography. Advanced Materials, 2008, 20, 3308-3313.	21.0	91
283	Toward an enhanced understanding and implementation of photopolymerization reactions. AICHE Journal, 2008, 54, 2775-2795.	3.6	220
284	Mechanisms, polymerization rate scaling, and oxygen inhibition with an ultra-rapid monovinyl urethane acrylate. Polymer, 2008, 49, 4756-4761.	3.8	28
285	Polymerization behavior and polymer properties of eosin-mediated surface modification reactions. Polymer, 2008, 49, 4762-4768.	3.8	37
286	Using polymeric materials to generate an amplified response to molecular recognition events. Nature Materials, 2008, 7, 52-56.	27.5	99
287	Kinetic Modeling of a Comonomer Photopolymerization System Using High-Throughput Conversion Data. Macromolecules, 2008, 41, 230-237.	4.8	20
288	Rheological and Chemical Analysis of Reverse Gelation in a Covalently Cross-Linked Dielsâ^'Alder Polymer Network. Macromolecules, 2008, 41, 9112-9117.	4.8	275

#	Article	IF	Citations
289	Visual Detection of Labeled Oligonucleotides Using Visible-Light-Polymerization-Based Amplification. Biomacromolecules, 2008, 9, 355-362.	5.4	58
290	Reactivity of Monovinyl (Meth)acrylates Containing Cyclic Carbonates. Macromolecules, 2008, 41, 9035-9043.	4.8	30
291	Nonclassical Dependence of Polymerization Rate on Initiation Rate Observed in Thiolâˆ'Ene Photopolymerizations. Macromolecules, 2008, 41, 2987-2989.	4.8	35
292	Synthesis, Characterization and Cleavage of Surface-Bound Linear Polymers Formed Using Thiolâˆ'Ene Photopolymerizations. Macromolecules, 2008, 41, 7440-7447.	4.8	44
293	Organization of liquid crystals on submicron scale topographic patterns with fourfold symmetry prepared by thiolene photopolymerization-based nanoimprint lithography. Journal of Applied Physics, 2008, 103, .	2.5	25
294	Shining a light on dental composite restoratives. Physics Today, 2008, 61, 82-83.	0.3	12
295	Advances in the fabrication of surface modified microfluidic devices in nonfluorescing UV cured materials. Proceedings of SPIE, 2008, , .	0.8	1
296	Exceeding the diffraction limit with single-photon photopolymerization and photo-induced termination. , 2008, , .		3
297	Vancomycin Derivative Photopolymerized to Titanium Kills S. epidermidis. Clinical Orthopaedics and Related Research, 2007, 461, 96-105.	1.5	34
298	Thiolâˆ'Allyl Etherâˆ'Methacrylate Ternary Systems. Polymerization Mechanism. Macromolecules, 2007, 40, 1466-1472.	4.8	84
299	Thiolâˆ'Allyl Etherâˆ'Methacrylate Ternary Systems. Evolution Mechanism of Polymerization-Induced Shrinkage Stress and Mechanical Properties. Macromolecules, 2007, 40, 1473-1479.	4.8	81
300	Alkyl Chain Length Effects on Copolymerization Kinetics of a Monoacrylate with Hexanediol Diacrylate. ACS Combinatorial Science, 2007, 9, 1149-1156.	3.3	15
301	Deconvoluting the Impact of Intermolecular and Intramolecular Interactions on the Polymerization Kinetics of Ultrarapid Mono(meth)acrylates. Macromolecules, 2007, 40, 47-54.	4.8	48
302	Influence of Secondary Functionalities on the Reaction Behavior of Monovinyl (Meth)Acrylates. Chemistry of Materials, 2007, 19, 641-643.	6.7	19
303	Design, Development, and Evaluation of Monovinyl Acrylates Characterized by Secondary Functionalities as Reactive Diluents to Diacrylates. Macromolecules, 2007, 40, 6112-6118.	4.8	14
304	Kinetic and Mechanistic Studies of Photopolymerizations of Acrylates in the Presence of Iniferters. Macromolecules, 2007, 40, 6131-6135.	4.8	9
305	Surface Modification Using Thiolâˆ'Acrylate Conjugate Addition Reactions. Macromolecules, 2007, 40, 5669-5677.	4.8	75
306	Controlled polymerization chemistry to graft architectures that influence cell-material interactions. Acta Biomaterialia, 2007, 3, 151-161.	8.3	25

#	Article	IF	Citations
307	Effects of neighboring sulfides and pH on ester hydrolysis in thiolâ€"acrylate photopolymers. Acta Biomaterialia, 2007, 3, 449-455.	8.3	86
308	Evaluation and control of thiolâ€"ene/thiolâ€"epoxy hybrid networks. Polymer, 2007, 48, 1526-1532.	3.8	187
309	Copolymerization and dark polymerization studies for photopolymerization of novel acrylic monomers. Polymer, 2007, 48, 2014-2021.	3.8	31
310	Photopolymer kinetics using light intensity gradients in high-throughput conversion analysis. Polymer, 2007, 48, 6319-6324.	3.8	22
311	Tailorable low modulus, reversibly deformable elastomeric thiolâ€"ene materials for microfluidic applications. Sensors and Actuators B: Chemical, 2007, 120, 473-480.	7.8	26
312	A water-activated pump for portable microfluidic applications. Journal of Colloid and Interface Science, 2007, 305, 239-249.	9.4	28
313	Factors affecting the sensitivity to acid inhibition in novel acrylates characterized by secondary functionalities. Journal of Polymer Science Part A, 2007, 45, 1287-1295.	2.3	9
314	Thiolâ€"norbornene materials: Approaches to develop high <i>T</i>_g thiolâ€"ene polymers. Journal of Polymer Science Part A, 2007, 45, 5686-5696.	2.3	90
315	Development and characterization of degradable thiol-allyl ether photopolymers. Polymer, 2007, 48, 4589-4600.	3.8	65
316	Thiolâ^'Vinyl Mechanisms. 2. Kinetic Modeling of Ternary Thiolâ^'Vinyl Photopolymerizations. Macromolecules, 2006, 39, 3681-3687.	4.8	78
317	Ultrathin Patterned Polymer Films on Surfaces Using Thiolâ^'Ene Polymerizations. Macromolecules, 2006, 39, 5081-5086.	4.8	66
318	An effervescent reaction micropump for portable microfluidic systems. Lab on A Chip, 2006, 6, 659.	6.0	19
319	Network Development in Mixed Step-Chain Growth Thiolâ^'Vinyl Photopolymerizations. Macromolecules, 2006, 39, 8832-8843.	4.8	53
320	Gel Permeation Chromatography Characterization of the Chain Length Distributions in Thiolâ^'Acrylate Photopolymer Networks. Macromolecules, 2006, 39, 7882-7888.	4.8	42
321	Detection of Antigens in Biologically Complex Fluids with Photografted Whole Antibodies. Analytical Chemistry, 2006, 78, 3144-3151.	6.5	22
322	Thiolâ^'Ene Photopolymer Grafts on Functionalized Glass and Silicon Surfaces. Macromolecules, 2006, 39, 1461-1466.	4.8	60
323	Impact of Oxygen on Photopolymerization Kinetics and Polymer Structure. Macromolecules, 2006, 39, 2501-2506.	4.8	160
324	Thiolâ^'Vinyl Mechanisms. 1. Termination and Propagation Kinetics in Thiolâ^'Ene Photopolymerizations. Macromolecules, 2006, 39, 3673-3680.	4.8	84

#	Article	IF	Citations
325	Controlling Network Structure in Degradable Thiolâˆ'Acrylate Biomaterials to Tune Mass Loss Behavior. Biomacromolecules, 2006, 7, 2827-2836.	5.4	94
326	Ultrathin gradient films using thiol-ene polymerizations. Journal of Polymer Science Part A, 2006, 44, 7027-7039.	2.3	78
327	Integrated surface modification of fully polymeric microfluidic devices using living radical photopolymerization chemistry. Journal of Polymer Science Part A, 2006, 44, 1404-1413.	2.3	26
328	Oxygen inhibition in thiolâ€"acrylate photopolymerizations. Journal of Polymer Science Part A, 2006, 44, 2007-2014.	2.3	199
329	The effect of functionalized nanoparticles on thiolâ€"ene polymerization kinetics. Polymer, 2006, 47, 6057-6065.	3.8	50
330	3D polymeric microfluidic device fabrication via contact liquid photolithographic polymerization (CLiPP). Sensors and Actuators B: Chemical, 2006, 113, 454-460.	7.8	45
331	Synthesis and photografting of highly pH-responsive polymer chains. Sensors and Actuators B: Chemical, 2006, 119, 127-134.	7.8	19
332	Modeling the Effect of Oxygen on Photopolymerization Kinetics. Macromolecular Theory and Simulations, 2006, 15, 176-182.	1.4	96
333	Actuation in Crosslinked Polymers via Photoinduced Stress Relaxation. Advanced Materials, 2006, 18, 2128-2132.	21.0	139
334	Mechanistic Modelling and Network Properties of Ternary Thiol - Vinyl Photopolymerizations. Australian Journal of Chemistry, 2006, 59, 586.	0.9	25
335	Micropatterning organosilane self-assembled monolayers with plasma etching and backfilling techniques. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 354.	1.6	6
336	Modeling of network degradation in mixed step-chain growth polymerizations. Polymer, 2005, 46, 4212-4222.	3.8	66
337	High throughput kinetic analysis of photopolymer conversion using composition and exposure time gradients. Polymer, 2005, 46, 3300-3306.	3.8	48
338	Understanding multivinyl monomer photopolymerization kinetics through modeling and GPC investigation of degradable networks. Polymer, 2005, 46, 6226-6234.	3.8	26
339	Influence of molecular dipole on monoacrylate monomer reactivity. Polymer, 2005, 46, 4735-4742.	3.8	28
340	Investigations of step-growth thiol-ene polymerizations for novel dental restoratives. Dental Materials, 2005, 21, 1129-1136.	3.5	234
341	Thiol-ene oligomers as dental restorative materials. Dental Materials, 2005, 21, 1137-1143.	3.5	160
342	Kinetic Modeling of Thiol-Ene Reactions with Both Step and Chain Growth Aspects. Macromolecular Theory and Simulations, 2005, 14, 267-277.	1.4	44

#	Article	IF	Citations
343	Development of highly reactive mono-(meth)acrylates as reactive diluents for dimethacrylate-based dental resin systems. Biomaterials, 2005, 26, 1329-1336.	11.4	87
344	Degradable thiol-acrylate photopolymers: polymerization and degradation behavior of an in situ forming biomaterial. Biomaterials, 2005, 26, 4495-4506.	11.4	257
345	Living radical photopolymerization induced grafting on thiol-ene based substrates. Journal of Polymer Science Part A, 2005, 43, 2134-2144.	2.3	65
346	Solvent vapor annealed block copolymer films on organosilane self-assembled monolayers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1615.	1.6	15
347	Molecular Weight Development during Thiolâ˘Ene Photopolymerizations. Macromolecules, 2005, 38, 4501-4511.	4.8	28
348	Impact of Curing Protocol on Conversion and Shrinkage Stress. Journal of Dental Research, 2005, 84, 822-826.	5.2	157
349	In situ fabrication of macroporous polymer networks within microfluidic devices by living radical photopolymerization and leaching. Lab on A Chip, 2005, 5, 151.	6.0	43
350	Propagation and Termination Kinetics of Cross-Linking Photopolymerizations Studied Using Electron Paramagnetic Resonance Spectroscopy in Conjunction with Near IR Spectroscopy. Macromolecules, 2005, 38, 6954-6964.	4.8	33
351	A Modeling Investigation of Chain Length Dependent Termination during Multivinyl Free Radical Chain Photopolymerizations:Â Accounting for the Gel. Macromolecules, 2005, 38, 4913-4918.	4.8	19
352	Surface Grafted Antibodies:Â Controlled Architecture Permits Enhanced Antigen Detection. Langmuir, 2005, 21, 10907-10911.	3.5	50
353	An Investigation of Chain Length Dependent Termination and Reaction Diffusion Controlled Termination during the Free Radical Photopolymerization of Multivinyl Monomers. Macromolecules, 2005, 38, 6374-6381.	4.8	23
354	Photoinduced Plasticity in Cross-Linked Polymers. Science, 2005, 308, 1615-1617.	12.6	670
355	Evaluation of a Potential Ionic Contribution to the Polymerization of Highly Reactive (Meth)acrylate Monomers. Macromolecules, 2005, 38, 9474-9481.	4.8	26
356	Effect of Aliphatic Spacer Substitution on the Reactivity of Phenyl Carbamate Acrylate Monomers. Macromolecules, 2005, 38, 3093-3098.	4.8	13
357	Rate mechanisms of a novel thiol-ene photopolymerization reaction. Macromolecular Symposia, 2004, 206, 361-374.	0.7	45
358	Towards the elucidation of shrinkage stress development and relaxation in dental composites. Dental Materials, 2004, 20, 979-986.	3.5	120
359	Probing the origins and control of shrinkage stress in dental resin-composites: I. Shrinkage stress characterization technique*. Journal of Materials Science: Materials in Medicine, 2004, 15, 1097-1103.	3.6	91
360	Thiol-ene photopolymerization of polymer-derived ceramic precursors. Journal of Polymer Science Part A, 2004, 42, 1752-1757.	2.3	30

#	Article	IF	Citations
361	Initiation and kinetics of thiol-ene photopolymerizations without photoinitiators. Journal of Polymer Science Part A, 2004, 42, 5817-5826.	2.3	155
362	Probing the origins and control of shrinkage stress in dental resin composites. II. Novel method of simultaneous measurement of polymerization shrinkage stress and conversion. Journal of Biomedical Materials Research Part B, 2004, 71B, 206-213.	3.1	68
363	Structure and swelling of poly(acrylic acid) hydrogels: effect of pH, ionic strength, and dilution on the crosslinked polymer structure. Polymer, 2004, 45, 1503-1510.	3.8	365
364	Degradable networks formed from multi-functional poly(vinyl alcohol) macromers: comparison of results from a generalized bulk-degradation model for polymer networks and experimental data. Polymer, 2004, 45, 3377-3387.	3.8	34
365	Modeling and verification of fluid-responsive polymer pumps for microfluidic systems. Chemical Engineering Science, 2004, 59, 5967-5974.	3.8	22
366	Effect of Aryl Substituents on the Reactivity of Phenyl Carbamate Acrylate Monomers. Macromolecules, 2004, 37, 4062-4069.	4.8	33
367	Robust polymer microfluidic device fabrication via contact liquid photolithographic polymerization (CLiPP). Lab on A Chip, 2004, 4, 658.	6.0	79
368	Novel Monovinyl Methacrylic Monomers Containing Secondary Functionality for Ultrarapid Polymerization:Â Steady-State Evaluation. Macromolecules, 2004, 37, 3165-3179.	4.8	57
369	The effect of light intensity on double bond conversion and flexural strength of a model, unfilled dental resin. Dental Materials, 2003, 19, 458-465.	3.5	108
370	The effect of primary cyclization on free radical polymerization kinetics: experimental characterization. Polymer, 2003, 44, 327-332.	3.8	42
371	Models of multivinyl free radical photopolymerization kinetics. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 159, 135-143.	3.9	61
372	The effect of kinetic chain length on the mechanical relaxation of crosslinked photopolymers. Polymer, 2003, 44, 39-47.	3.8	23
373	FTIR and ESR Spectroscopic Studies of the Photopolymerization of Vinyl Ester Resins. Macromolecules, 2003, 36, 6066-6074.	4.8	29
374	A Methacrylated Photoiniferter as a Chemical Basis for Microlithography:Â Micropatterning Based on Photografting Polymerization. Macromolecules, 2003, 36, 6739-6745.	4.8	63
375	Polymer-Derived Ceramic Materials from Thiol-ene Photopolymerizations. Chemistry of Materials, 2003, 15, 4257-4261.	6.7	49
376	Modeling Thermal and Optical Effects on Photopolymerization Systems. Macromolecules, 2003, 36, 7777-7782.	4.8	46
377	Mechanism and Modeling of a Thiolâ[^]'Ene Photopolymerization. Macromolecules, 2003, 36, 4631-4636.	4.8	193
378	Thiolâˆ'Ene Photopolymerization Mechanism and Rate Limiting Step Changes for Various Vinyl Functional Group Chemistries. Macromolecules, 2003, 36, 7964-7969.	4.8	289

#	Article	IF	Citations
379	Electro-optic properties of thiol-ene polymer stabilized ferroelectric liquid crystals. Liquid Crystals, 2003, 30, 1343-1350.	2.2	17
380	Application of a kinetic gelation simulation to the characterization of in situ cross-linking biomaterials. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 797-815.	3.5	7
381	PREDICTING NETWORK FORMATION OF FREE RADICAL POLYMERIZATION OF MULTIFUNCTIONAL MONOMERS. Polymer-Plastics Technology and Engineering, 2002, 10, 1-19.	0.7	24
382	Effect of Primary Cyclization on Free Radical Polymerization Kinetics:Â Modeling Approach. Macromolecules, 2002, 35, 7125-7131.	4.8	30
383	Coupling Chain Length Dependent and Reaction Diffusion Controlled Termination in the Free Radical Polymerization of Multivinyl (Meth)acrylates. Macromolecules, 2002, 35, 7968-7975.	4.8	59
384	Photopolymerizations of Thiolâ^'Ene Polymers without Photoinitiators. Macromolecules, 2002, 35, 5361-5365.	4.8	313
385	Effect of Polymer Surface Properties on the Reversibility of Attachment ofPseudomonas aeruginosain the Early Stages of Biofilm Development. Biofouling, 2002, 18, 65-71.	2.2	72
386	Formation of a host nanostructure for ferroelectric liquid crystals using thiol-ene polymers. Liquid Crystals, 2002, 29, 1291-1296.	2.2	13
387	Surface-Initiated Photopolymerization of Poly(ethylene glycol) Methyl Ether Methacrylate on a Diethyldithiocarbamate-Mediated Polymer Substrate. Macromolecules, 2002, 35, 2487-2493.	4.8	59
388	Effects of Solvent Quality during Polymerization on Network Structure of Cross-Linked Methacrylate Copolymers. Journal of Physical Chemistry B, 2002, 106, 2843-2847.	2.6	18
389	In situ forming degradable networks and their application in tissue engineering and drug delivery. Journal of Controlled Release, 2002, 78, 199-209.	9.9	430
390	Modeling the Effects of Chain Length on the Termination Kinetics in Multivinyl Photopolymerizations. Macromolecular Theory and Simulations, 2002, 11, 729-738.	1.4	30
391	Synthesis of a novel methacrylic monomer iniferter and its application in surface photografting on crosslinked polymer substrates. Journal of Polymer Science Part A, 2002, 40, 1885-1891.	2.3	59
392	Synthesis and photopolymerization of N,Nâ€²-dimethyl,-N,Nâ€²-di(methacryloxy ethyl)-1,6-hexanediamine as a polymerizable amine coinitiator for dental restorations. Biomaterials, 2002, 23, 1221-1226.	11.4	50
393	Polymerization kinetics of HEMA/DEGDMA: using changes in initiation and chain transfer rates to explore the effects of chain-length-dependent termination. Biomaterials, 2002, 23, 4057-4064.	11.4	20
394	Development of a comprehensive free radical photopolymerization model incorporating heat and mass transfer effects in thick films. Chemical Engineering Science, 2002, 57, 887-900.	3.8	182
395	Exploiting the Heterogeneity of Cross-Linked Photopolymers To Create High-TgPolymers from Polymerizations Performed at Ambient Conditions. Macromolecules, 2001, 34, 8021-8025.	4.8	67
396	Monomer Functionality and Polymer Network Formation. Macromolecules, 2001, 34, 4642-4649.	4.8	49

#	Article	IF	Citations
397	MEMBRANE SURFACE MODIFICATION AND BACKPULSING FOR WASTEWATER TREATMENT. Separation Science and Technology, 2001, 36, 1557-1573.	2.5	17
398	A Generalized Bulk-Degradation Model for Hydrogel Networks Formed from Multivinyl Cross-linking Molecules. Journal of Physical Chemistry B, 2001, 105, 5131-5138.	2.6	74
399	A Statistical Kinetic Model for the Bulk Degradation of PLA-b-PEG-b-PLA Hydrogel Networks:Â Incorporating Network Non-Idealities. Journal of Physical Chemistry B, 2001, 105, 8069-8076.	2.6	107
400	Using Changes in Initiation and Chain Transfer Rates To Probe the Kinetics of Cross-Linking Photopolymerizations:Â Effects of Chain Length Dependent Termination. Macromolecules, 2001, 34, 5103-5111.	4.8	76
401	Factors affecting membrane fouling reduction by surface modification and backpulsing. Journal of Membrane Science, 2001, 189, 255-270.	8.2	99
402	Effects of ultrafiltration membrane surface properties on Pseudomonas aeruginosa biofilm initiation for the purpose of reducing biofouling. Journal of Membrane Science, 2001, 194, 15-32.	8.2	215
403	The significance of chain length dependent termination in cross-linking polymerizations. Polymer, 2001, 42, 4925-4929.	3.8	47
404	Principal factors affecting sequential photoinduced graft polymerization. Polymer, 2001, 42, 8333-8338.	3.8	54
405	Synthesis and characterization of N-isopropyl, N-methacryloxyethyl methacrylamide as a possible dental resin. Biomaterials, 2001, 22, 535-540.	11.4	29
406	Kinetics of thiol-ene and thiol-acrylate photopolymerizations with real-time fourier transform infrared. Journal of Polymer Science Part A, 2001, 39, 3311-3319.	2.3	443
407	Understanding the kinetics and network formation of dimethacrylate dental resins. Polymers for Advanced Technologies, 2001, 12, 335-345.	3.2	176
408	Verification of scaling laws for degrading PLA-b-PEG-b-PLA hydrogels. AICHE Journal, 2001, 47, 1432-1437.	3.6	46
409	Kinetic modeling of the effect of solvent concentration on primary cyclization during polymerization of multifunctional monomers. Chemical Engineering Science, 2001, 56, 3173-3184.	3.8	67
410	Predicting Controlled-Release Behavior of Degradable PLA-b-PEG-b-PLA Hydrogels. Macromolecules, 2001, 34, 4630-4635.	4.8	185
411	The effect of wavelength on the polymerization of multi(meth)acrylates with disulfide/benzilketal combinations. Polymer, 2001, 42, 421-429.	3.8	22
412	Primary cyclization in the polymerization of bis-GMA and TEGDMA: a modeling approach to understanding the cure of dental resins. Dental Materials, 2001, 17, 221-229.	3.5	160
413	The effect of cure rate on the mechanical properties of dental resins. Dental Materials, 2001, 17, 504-511.	3.5	298
414	Fundamental studies of a novel, biodegradable PEG-b-PLA hydrogel. Polymer, 2000, 41, 3993-4004.	3.8	333

#	Article	IF	Citations
415	Complexation structure and transport mechanism of 1,5-hexadiene and 1-hexene through silver facilitated transport membranes. Journal of Membrane Science, 2000, 172, 49-57.	8.2	18
416	Membrane fouling reduction by backpulsing and surface modification. Journal of Membrane Science, 2000, 173, 191-200.	8.2	164
417	Theoretical and experimental flux maximization by optimization of backpulsing. Journal of Membrane Science, 2000, 165, 225-236.	8.2	54
418	Pseudo-crown ethers as fixed site carriers in facilitated transport membranes. Journal of Membrane Science, 2000, 168, 109-119.	8.2	22
419	A Novel Sequential Photoinduced Living Graft Polymerization. Macromolecules, 2000, 33, 331-335.	4.8	288
420	A Statistical Kinetic Model for the Bulk Degradation of PLA-b-PEG-b-PLA Hydrogel Networks. Journal of Physical Chemistry B, 2000, 104, 7043-7049.	2.6	170
421	Characterization and Polymerization of Metal Complexes of Poly(ethylene glycol) Diacrylates and the Synthesis of Polymeric Pseudocrown Ethers. Chemistry of Materials, 2000, 12, 633-642.	6.7	22
422	The Effects of Light Intensity, Temperature, and Comonomer Composition on the Polymerization Behavior of Dimethacrylate Dental Resins. Journal of Dental Research, 1999, 78, 1469-1476.	5.2	265
423	Properties of the transport of alkali metal salts through polymeric membranes containing benzo-18-crown-6 crown ether functional groups. Journal of Membrane Science, 1999, 156, 293-302.	8.2	34
424	Effect of Polymerization Temperature and Cross-Linker Concentration on Reaction Diffusion Controlled Termination. Macromolecules, 1999, 32, 6073-6081.	4.8	79
425	Effects of Composition and Reactivity on the Reaction Kinetics of Dimethacrylate/Dimethacrylate Copolymerizations. Macromolecules, 1999, 32, 3913-3921.	4.8	177
426	Kinetics of Primary Cyclization Reactions in Cross-Linked Polymers:Â An Analytical and Numerical Approach to Heterogeneity in Network Formation. Macromolecules, 1999, 32, 8621-8628.	4.8	105
427	Polymerization Kinetics of Pseudocrown Ether Network Formation for Facilitated Transport Membranes. Macromolecules, 1999, 32, 3201-3208.	4.8	19
428	Modeling Primary Radical Termination and Its Effects on Autoacceleration in Photopolymerization Kinetics. Macromolecules, 1999, 32, 6552-6559.	4.8	123
429	Hyperbranched Chelating Polymers for the Polymer-Assisted Ultrafiltration of Boric Acid. Separation Science and Technology, 1999, 34, 1925-1945.	2.5	35
430	Modeling and Experimental Investigation of Light Intensity and Initiator Effects on Solvent-Free Photopolymerizations. ACS Symposium Series, 1999, , 220-231.	0.5	7
431	Formation of Polymer Stabilized Ferroelectric Liquid Crystals using a Fluorinated Diacrylate. Materials Research Society Symposia Proceedings, 1999, 559, 123.	0.1	0
432	Thermodynamics of borate ester formation by three readily grafted carbohydrates. Carbohydrate Research, 1998, 308, 173-179.	2.3	23

#	Article	IF	Citations
433	Effect of comonomer concentration and functionality on photopolymerization rates, mechanical properties and heterogeneity of the polymer. Macromolecular Chemistry and Physics, 1998, 199, 1043-1049.	2.2	79
434	A study of the evolution of mechanical properties and structural heterogeneity of polymer networks formed by photopolymerizations of multifunctional (meth)acrylates. Polymer, 1998, 39, 2507-2513.	3.8	268
435	Role of ion-exchange membrane morphology and sorption properties in facilitated transport di-olefin/mono-olefin separations. Journal of Membrane Science, 1998, 144, 133-143.	8.2	22
436	Polymerization Conditions and Electrooptic Properties of Polymer-Stabilized Ferroelectric Liquid Crystals. Chemistry of Materials, 1998, 10, 2378-2388.	6.7	56
437	Structural Evolution of Dimethacrylate Networks Studied by Dielectric Spectroscopy. Macromolecules, 1998, 31, 3311-3316.	4.8	64
438	Polymerization of polymer/ferroelectric liquid crystal composites formed with branched liquid crystalline bismethacrylates. Liquid Crystals, 1998, 24, 263-270.	2.2	8
439	Effect of comonomer concentration and functionality on photopolymerization rates, mechanical properties and heterogeneity of the polymer. Macromolecular Chemistry and Physics, 1998, 199, 1043-1049.	2.2	2
440	Polymerization and Properties of Polymer-Stabilized Ferroelectric Liquid Crystals. MRS Bulletin, 1997, 22, 15-20.	3.5	3
441	Photopolymerization and Electrooptic Properties of Polymer Network/Ferroelectric Liquid-Crystal Composites. ACS Symposium Series, 1997, , 16-27.	0.5	2
442	Polymerization Behavior and Kinetics during the Formation of Polymer-Stabilized Ferroelectric Liquid Crystals. Macromolecules, 1997, 30, 1594-1600.	4.8	53
443	Reaction Behavior and Kinetic Modeling Studies of "Living" Radical Photopolymerizations. ACS Symposium Series, 1997, , 51-62.	0.5	3
444	Kinetic Analysis of Polymerization Rate Acceleration During the Formation of Polymer/Smectic Liquid Crystal Composites. Macromolecules, 1997, 30, 5271-5278.	4.8	55
445	Method for Determining the Kinetic Parameters in Diffusion-Controlled Free-Radical Homopolymerizations. Industrial & Engineering Chemistry Research, 1997, 36, 1247-1252.	3.7	113
446	Effects of Monomer Structure on Their Organization and Polymerization in a Smectic Liquid Crystal. Science, 1997, 275, 57-59.	12.6	114
447	Transport of ionic species through functionalized poly(vinylbenzyl chloride) membranes. Journal of Membrane Science, 1997, 128, 183-193.	8.2	24
448	Use of ?living? radical polymerizations to study the structural evolution and properties of highly crosslinked polymer networks. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2297-2307.	2.1	133
449	Use of â€œlivingâ€• radical polymerizations to study the structural evolution and properties of highly crosslinked polymer networks. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2297-2307.	2.1	1
450	An Empirical and Modeling Study of Boron Speciation in Solution with a Reactive Dendrimeric Polymer. , 1997, , 197-206.		0

#	Article	IF	Citations
451	Polymerization Effects on the Electro-Optic Properties of a Polymer Stabilized Ferroelectric Liquid Crystal. Materials Research Society Symposia Proceedings, 1996, 425, 197.	0.1	0
452	Kinetic and Mechanistic Studies of Iniferter Photopolymerizations. Macromolecules, 1996, 29, 7310-7315.	4.8	75
453	Radical concentrations, environments, and reactivities during crosslinking polymerizations. Macromolecular Chemistry and Physics, 1996, 197, 833-848.	2.2	84
454	Transport mechanism of carbon dioxide through perfluorosulfonate ionomer membranes containing an amine carrier. Chemical Engineering Science, 1996, 51, 4781-4789.	3.8	64
455	Mechanical properties of hydrogels and their experimental determination. Biomaterials, 1996, 17, 1647-1657.	11.4	980
456	Olefin separation using silver impregnated ion-exchange membranes and silver salt/polymer blend membranes. Journal of Membrane Science, 1996, 117, 151-161.	8.2	51
457	The Influence of Comonomer Composition on Dimethacrylate Resin Properties for Dental Composites. Journal of Dental Research, 1996, 75, 1607-1612.	5.2	61
458	Photochemistry of polymers: photopolymerization fundamentals and applications. Proceedings of SPIE, 1996, , .	0.8	2
459	Microstructural evolution in polymerizations of tetrafunctional monomers. Macromolecular Symposia, 1995, 93, 269-276.	0.7	14
460	UVâ€"Visible Spectroscopy To Determine Free-Volume Distributions During Multifunctional Monomer Polymerizations. ACS Symposium Series, 1995, , 166-182.	0.5	1
461	Settling characteristics of microparticles modified by hydrophilic semi-interpenetrating polymer networks. Journal of Applied Polymer Science, 1995, 55, 793-805.	2.6	5
462	Kinetic gelation predictions of species aggregation in tetrafunctional monomer polymerizations. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1769-1780.	2.1	38
463	Photo-differential scanning calorimetry studies of cationic polymerizations of divinyl ethers. Polymer, 1995, 36, 4651-4656.	3.8	71
464	Mucoadhesion of poly(2-hydroxyethyl methacrylate) is improved when linear poly(ethylene oxide) chains are added to the polymer network. Journal of Controlled Release, 1995, 33, 197-201.	9.9	74
465	Boron Removal by Polymer-Assisted Ultrafiltration. Separation Science and Technology, 1995, 30, 3849-3859.	2.5	50
466	Phase behaviour and electro-optic characteristics of a polymer stabilized ferroelectric liquid crystal. Liquid Crystals, 1995, 19, 719-727.	2.2	58
467	Reaction Kinetics and Volume Relaxation during Polymerizations of Multiethylene Glycol Dimethacrylates. Macromolecules, 1995, 28, 2491-2499.	4.8	210
468	Real-Time Infrared Characterization of Reaction Diffusion during Multifunctional Monomer Polymerizations. Macromolecules, 1995, 28, 4040-4043.	4.8	82

#	Article	IF	Citations
469	Transport Properties of Carbon Dioxide through Amine Functionalized Carrier Membranes. Industrial & Engineering Chemistry Research, 1995, 34, 4071-4077.	3.7	82
470	Polymerization kinetics and volume relaxation behavior of photopolymerized multifunctional monomers producing highly crosslinked networks. Journal of Polymer Science Part A, 1994, 32, 139-147.	2.3	122
471	In situ poling and polymerization of multifunctional monomers for second harmonic generation. Macromolecular Chemistry and Physics, 1994, 195, 3759-3772.	2.2	4
472	Kinetic Gelation model predictions of crosslinked polymer network microstructure. Chemical Engineering Science, 1994, 49, 2207-2217.	3.8	93
473	Reaction behaviour and kinetic constants for photopolymerizations of multi(meth)acrylate monomers. Polymer, 1994, 35, 3243-3250.	3.8	250
474	A Photochromic Technique To Study Polymer Network Volume Distributions and Microstructure during Photopolymerizations. Macromolecules, 1994, 27, 2890-2892.	4.8	25
475	Kinetic evidence of reaction diffusion during the polymerization of multi(meth)acrylate monomers. Macromolecules, 1994, 27, 650-655.	4.8	319
476	Structural Evolution of Highly Crosslinked Polymer Networks. Materials Research Society Symposia Proceedings, 1994, 355, 619.	0.1	0
477	Structural Evolution of Highly Crosslinked Polymer Networks. Materials Research Society Symposia Proceedings, 1994, 355, 65.	0.1	0
478	Dynamic mechanical studies of the glass transition temperature of photopolymerized multifunctional acrylates. Polymer Bulletin, 1993, 31, 229-233.	3.3	40
479	Reaction Diffusion Enhanced Termination in Polymerizations of Multifunctional Monomers. Polymer-Plastics Technology and Engineering, 1993, 1, 499-520.	0.7	68
480	Polymerization reaction dynamics of ethylene glycol methacrylates and dimethacrylates by calorimetry. Polymer, 1992, 33, 1683-1689.	3.8	51
481	A kinetic gelation method for the simulation of free-radical polymerizations. Chemical Engineering Science, 1992, 47, 1411-1419.	3.8	78
482	Coupling of kinetics and volume relaxation during polymerizations of multiacrylates and multimethacrylates. Macromolecules, 1991, 24, 1914-1920.	4.8	139
483	Polymers for information storage systems. II. Polymerization kinetics for preparation of highly crosslinked polydimethacrylates. Journal of Applied Polymer Science, 1991, 42, 2013-2018.	2.6	17
484	Initiation and termination mechanisms in kinetic gelation simulations. Journal of Polymer Science Part A, 1991, 29, 1575-1583.	2.3	19
485	Effects of Aging on Polymerization Kinetics. Materials Research Society Symposia Proceedings, 1990, 215, 43.	0.1	0
486	Polymers for information storage systems III. Crosslinked structure of polydimethacrylates. Polymer, 1990, 31, 135-139.	3.8	32

#	Article	IF	Citations
487	Polymers for information storage systems. Polymer Bulletin, 1988, 20, 329.	3.3	11
488	Title is missing!. , 0, , .		7
489	Athermal, Chemically Triggered Release of RNA from Thioester Nucleic Acids. Angewandte Chemie, 0, , .	2.0	0
490	Shape Permanence in Diarylethene‐Functionalized Liquid‐Crystal Elastomers Facilitated by Thiol‐Anhydride Dynamic Chemistry. Angewandte Chemie, 0, , .	2.0	1