

Sulfur Chemistry in Polymer and Materials Science

Macromolecular Rapid Communications

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Adaptable and Reprogrammable Surfaces. <i>Advanced Materials</i> , 2019, 31, e1902665.	11.1	23
2	Application of metal oxide semiconductors in light-driven organic transformations. <i>Catalysis Science and Technology</i> , 2019, 9, 5186-5232.	2.1	143
3	Recent Progress on COS-derived Polymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 951-958.	2.0	26
4	Review "Recent Advances in Direct and Indirect Methods for Sensing Carbonyl Compounds Aldehydes in Environment and Foodstuffs. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1543-B1551.	1.3	10
5	Catalyst-Free Construction of Versatile and Functional CS ₂ -Based Polythioureas: Characteristics from Self-Healing to Heavy Metal Absorption. <i>Macromolecules</i> , 2019, 52, 8596-8603.	2.2	31
6	Extremely rapid postfunctionalization of maleate and fumarate main chain polyesters in the presence of TBD. <i>Polymer</i> , 2019, 182, 121844.	1.8	12
7	Recent advances in the polymerization of elemental sulphur, inverse vulcanization and methods to obtain functional Chalcogenide Hybrid Inorganic/Organic Polymers (CHIPs). <i>Polymer Chemistry</i> , 2019, 10, 4078-4105.	1.9	193
8	Supramolecular Assembly of a Molecularly Engineered Protein and Polymer. <i>Chemistry - A European Journal</i> , 2019, 25, 10464-10471.	1.7	8
9	Synthesis and Applications of Polymers Made by Inverse Vulcanization. <i>Topics in Current Chemistry</i> , 2019, 377, 16.	3.0	93
10	Glutathione Triggered Cascade Degradation of an Amphiphilic Poly(disulfide) "Drug Conjugate and Targeted Release. <i>Bioconjugate Chemistry</i> , 2019, 30, 101-110.	1.8	27
11	Two-Step Oxidation Synthesis of Sulfur with a Red Aggregation-Induced Emission. <i>Angewandte Chemie</i> , 2020, 132, 10083-10088.	1.6	8
12	Two-Step Oxidation Synthesis of Sulfur with a Red Aggregation-Induced Emission. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9997-10002.	7.2	57
13	The unrevealed potential of elemental sulfur for the synthesis of high sulfur content bio-based aliphatic polyesters. <i>Polymer Chemistry</i> , 2020, 11, 241-248.	1.9	18
14	Hyperbranched polydisulfides. <i>Polymer Chemistry</i> , 2020, 11, 990-1000.	1.9	15
15	Histamine, an effective initiator for the synthesis of polysulfides. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 258-262.	1.9	2
16	Disulfide chemistry in responsive aggregation of amphiphilic systems. <i>Soft Matter</i> , 2020, 16, 11-26.	1.2	32
17	Chemoselective Coupling of CS ₂ and Epoxides for Producing Poly(thioether)s and COS via Oxygen/Sulfur Atom Exchange. <i>Macromolecules</i> , 2020, 53, 233-239.	2.2	28
18	Preferential production of microalgal hydrocarbon pentathiolates by the photoinitiated thiol-ene reaction of botryococcene. <i>Algal Research</i> , 2020, 46, 101724.	2.4	0

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19	Economic Sulfur Conversion to Functional Polythioamides through Catalyst-Free Multicomponent Polymerizations of Sulfur, Acids, and Amines. <i>Journal of the American Chemical Society</i> , 2020, 142, 978-986.	6.6	121
20	Sequential crosslinking for mechanical property development in high sulfur content composites. <i>Journal of Polymer Science</i> , 2020, 58, 2943-2950.	2.0	13
21	1,3,5-Trithianes and sulfur monochloride/sodium sulfide: an alternative route to 3,5-disubstituted 1,2,4-trithiolanes. <i>Journal of Sulfur Chemistry</i> , 2020, 41, 635-644.	1.0	2
22	Facile route to an organosulfur composite from biomass-derived guaiacol and waste sulfur. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20318-20322.	5.2	18
23	Synthesis of Sulfur-rich Polymers: Copolymerization of Cyclohexene Sulfide and Carbon Disulfide Using Chromium Complexes. <i>Macromolecules</i> , 2020, 53, 8837-8846.	2.2	27
24	Density-Adjustable Bio-Based Polysulfide Composite Prepared by Inverse Vulcanization and Bio-Based Fillers. <i>Polymers</i> , 2020, 12, 2127.	2.0	8
25	The single-step synthesis of thiol-functionalized phosphazene-based polymeric microspheres as drug carrier. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 1944-1955.	0.6	8
26	Katalytische enantioselektive Sulfenofunktionalisierung von Alkenen: Entwicklung und aktuelle Fortschritte. <i>Angewandte Chemie</i> , 2020, 132, 19966-19990.	1.6	7
27	Nucleophilic Thiol-yne reaction in Macromolecular Engineering: From synthesis to applications. <i>European Polymer Journal</i> , 2020, 137, 109926.	2.6	38
28	Bifunctional Peptide-Polymer Conjugate-Based Fibers via a One-Pot Tandem Disulfide Reduction Coupled to a Thio-Bromo Click-Reaction. <i>ACS Omega</i> , 2020, 5, 19020-19028.	1.6	4
29	A role for terpenoid cyclization in the atom economical polymerization of terpenoids with sulfur to yield durable composites. <i>Materials Advances</i> , 2020, 1, 1665-1674.	2.6	24
30	Fabrication of a Self-Healing, 3D Printable, and Reprocessable Biobased Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51927-51939.	4.0	41
31	Intramolecularly Cooperative Catalysis for Copolymerization of Cyclic Thioanhydrides and Epoxides: A Dual Activation Strategy to Well-Defined Polythioesters. <i>ACS Catalysis</i> , 2020, 10, 6635-6644.	5.5	41
32	Photopatternable, Branched Polymer Hydrogels Based on Linear Macromonomers for 3D Cell Culture Applications. <i>ACS Macro Letters</i> , 2020, 9, 882-888.	2.3	19
33	Flavin/2-catalyzed Aerobic Oxidative C-H Sulfenylation of Aryl-Fused Cyclic Amines. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3889-3895.	1.2	11
34	Making the Best of Polymers with Sulfur-Nitrogen Bonds: From Sources to Innovative Materials. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000181.	2.0	17
35	Visible light photocatalytic deterioration of polystyrene plastic using supported BiOCl nanoflower and nanodisk. <i>European Polymer Journal</i> , 2020, 134, 109793.	2.6	34
36	Flavin/12 catalyzed aerobic oxidative C H sulfenylation of anilines. <i>Tetrahedron Letters</i> , 2020, 61, 152141.	0.7	6

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37	Catalyst-Free Click Polymerization of Thiol and Activated Internal Alkynes: A Facile Strategy toward Functional Poly($\hat{1}^2$ -thioacrylate)s. <i>Macromolecules</i> , 2020, 53, 4932-4941.	2.2	26
38	Non-Isocyanate and Catalyst-Free Synthesis of a Recyclable Polythiourethane with Cyclic Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5693-5703.	3.2	27
39	Geminal Dimethyl Substitution Enables Controlled Polymerization of Penicillamine-Derived $\hat{1}^2$ -Thiolactones and Reversed Depolymerization. <i>Chem</i> , 2020, 6, 1831-1843.	5.8	116
40	Functional Poly(ester- <i>alt</i> -sulfide)s Synthesized by Organo-Catalyzed Anionic Ring-Opening Alternating Copolymerization of Oxiranes and $\hat{1}^3$ -Thiobutylolactones. <i>Macromolecules</i> , 2020, 53, 5188-5198.	2.2	22
41	Polymersome Formation by Amphiphilic Polyglycerol- <i>b</i> -polydisulfide- <i>b</i> -polyglycerol and Glutathione-Triggered Intracellular Drug Delivery. <i>Biomacromolecules</i> , 2020, 21, 3353-3363.	2.6	34
42	Conductive Sulfur-Rich Copolymer Composites as Lithium-Sulfur Battery Electrodes with Fast Kinetics and a High Cycle Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10389-10401.	3.2	27
43	Introduction of Mercaptoethyl at Sorafenib Pyridine-2-Amide Motif as a Potentially Effective Chain to Further get Sorafenib-PEG-DGL. <i>Molecules</i> , 2020, 25, 573.	1.7	0
44	Bio-Based Aromatic Copolyesters: Influence of Chemical Microstructures on Thermal and Crystalline Properties. <i>Polymers</i> , 2020, 12, 829.	2.0	4
45	Atomic and electronic structure of solids of $\text{Ge}_2\text{Br}_2\text{PN}$, $\text{Ge}_2\text{I}_2\text{PN}$, $\text{Sn}_2\text{Cl}_2\text{PN}$, $\text{Sn}_2\text{Br}_2\text{PN}$ and $\text{Sn}_2\text{I}_2\text{PN}$ inorganic double helices: a first principles study. <i>RSC Advances</i> , 2020, 10, 14714-14719.	1.7	4
46	Redox responsive activity regulation in exceptionally stable supramolecular assembly and co-assembly of a protein. <i>Chemical Science</i> , 2021, 12, 1101-1108.	3.7	16
47	Progress and Roadmap for Intelligent Self-Healing Materials in Autonomous Robotics. <i>Advanced Materials</i> , 2021, 33, e2002800.	11.1	75
48	Silsesquioxane-cored miktoarm copolymer amphiphiles for fabrication of oxidation-responsive silica-encapsulated polysulfide microspheres. <i>European Polymer Journal</i> , 2021, 143, 110196.	2.6	2
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51	Efficient C3-alkylsulfenylation of indoles under mild conditions using Lewis acid-activated 8-quinolinethiosulfonates. <i>Tetrahedron Letters</i> , 2021, 65, 152748.	0.7	1
52	Thiolated polymeric hydrogels for biomedical application: Cross-linking mechanisms. <i>Journal of Controlled Release</i> , 2021, 330, 470-482.	4.8	90
53	Enabling Superior Thermo-Oxidative Resistance Elastomers Based on a Structure Recovery Strategy. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000762.	2.0	6
56	One-Step Modification of Diacid-Functional Polythioethers via Simultaneous Passerini and Esterification Reactions. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100038.	1.1	3

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61	<i>S</i> -Carboxyanhydrides: Ultrafast and Selective Ring-Opening Polymerizations Towards Well-defined Functionalized Polythioesters. <i>Angewandte Chemie</i> , 2021, 133, 10893-10900.	1.6	13
62	<i>S</i> -Carboxyanhydrides: Ultrafast and Selective Ring-Opening Polymerizations Towards Well-defined Functionalized Polythioesters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10798-10805.	7.2	39
63	Acyclic Diene Metathesis (ADMET) Polymerization of 2,2,6,6-Tetramethylpiperidine-1-sulfanyl (TEMPS) Dimers. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100118.	2.0	5
64	Unusual Behavior of Ketoximes: Reagentless Photochemical Pathway to Alkynyl Sulfides. <i>Journal of Organic Chemistry</i> , 2021, 86, 5908-5921.	1.7	5
65	Dynamic Ring-chain Equilibrium of Nucleophilic Thiol-yne "Click" Polyaddition for Recyclable Poly(dithioacetal)s. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1146-1154.	2.0	17
66	Semi-aromatic polyamides containing fluorenyl pendent toward excellent thermal stability, mechanical properties and dielectric performance. <i>Polymer</i> , 2021, 224, 123757.	1.8	19
67	Alternating copolymerization of bio-based N-acetylhomocysteine thiolactone and epoxides. <i>European Polymer Journal</i> , 2021, 153, 110490.	2.6	9
68	Exploring the advantages of oxygen-tolerant thiol-ene polymerization over conventional acrylate free radical photopolymerization processes for pressure-sensitive adhesives. <i>Polymer Journal</i> , 2021, 53, 1195-1204.	1.3	11
69	Thiolated-Polymer-Based Nanoparticles as an Avant-Garde Approach for Anticancer Therapies—Reviewing Thiomers from Chitosan and Hyaluronic Acid. <i>Pharmaceutics</i> , 2021, 13, 854.	2.0	16
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72	Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Al ^S batteries. <i>Nature Communications</i> , 2021, 12, 5714.	5.8	80
73	Reduction-responsive sulfur monoterpane polysulfides in microfiber for adsorption of aqueous heavy metal. <i>Journal of Water Process Engineering</i> , 2021, 43, 102247.	2.6	2
74	Unprecedentedly high active organocatalysts for the copolymerization of carbonyl sulfide and propylene oxide: steric hindrance effect of tertiary amines. <i>Polymer Chemistry</i> , 2021, 12, 5283-5288.	1.9	7
75	Elemental sulphur in the synthesis of sulphur-containing polymers: reaction mechanisms and green prospects. <i>RSC Advances</i> , 2021, 11, 9008-9020.	1.7	28
76	Elemental Sulfur Mediated Novel Multicomponent Redox Polycondensation for the Synthesis of Alternating Copolymers Based on 2,4-Thiophene/Arene Repeating Units. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000695.	2.0	4
77	Reprocessable covalent adaptable networks with excellent elevated-temperature creep resistance: facilitation by dynamic, dissociative bis(hindered amino) disulfide bonds. <i>Polymer Chemistry</i> , 2021, 12, 2760-2771.	1.9	51
78	Catalytic, Enantioselective Sulfenofunctionalization of Alkenes: Development and Recent Advances. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19796-19819.	7.2	64

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79	Alternating copolymerization of \hat{I}^3 -selenobutyrolactone with episulfides for high refractive index selenium-containing polythioesters. <i>European Polymer Journal</i> , 2020, 133, 109776.	2.6	15
80	The synthesis of degradable sulfur-containing polymers: precise control of structure and stereochemistry. <i>Polymer Chemistry</i> , 2021, 12, 6650-6666.	1.9	32
81	The versatile, functional polyether, polyepichlorohydrin: History, synthesis, and applications. <i>Journal of Polymer Science</i> , 2021, 59, 2704-2718.	2.0	20
82	General Construction of Thioamides under Mild Conditions: A Stepwise Proton Transfer Process Mediated by EDTA. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 6015.	1.2	4
83	The synthesis of $\langle i \rangle N \langle /i \rangle, \langle i \rangle N \langle /i \rangle$ -disulfanediy-bis($\langle i \rangle N \langle /i \rangle$ -(($\langle i \rangle E \langle /i \rangle$)-benzylidene)acetohydrazide) from ($\langle i \rangle E \langle /i \rangle$)- $\langle i \rangle N \langle /i \rangle$ - \hat{E}^2 -benzylideneacetohydrazide and $S_{\langle sub \rangle 8 \langle /sub \rangle}$. <i>RSC Advances</i> , 2020, 10, 41041-41046.	1.7	3
84	Oneâ€pot, oneâ€step, and selective terpolymerization of ethylene oxide, propylene oxide, and $\langle scp \rangle COS \langle /scp \rangle$ to copoly(thioether)s with tunable thermal properties. <i>Journal of Polymer Science</i> , 2022, 60, 2262-2268.	2.0	4
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88	Recent progress of sulphur-containing high-efficiency organic light-emitting diodes (OLEDs). <i>Journal of Materials Chemistry C</i> , 2022, 10, 4497-4520.	2.7	35
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91	Thermosets from renewable sources. , 2022, , 679-718.		0
92	Synthesis and modification of polymers by thiol-phenylsulfone substitution reaction. <i>Chemical Communications</i> , 2022, 58, 2148-2151.	2.2	3
93	Phenolic Compounds to Hinder Sulfur Crystallization in Sulfur-Extended Bitumen. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106184.	5.3	4
94	Intermolecular Photocatalytic Chemoâ€, Stereoâ€and Regioselective Thiolâ€yneâ€ene Coupling Reaction. <i>Angewandte Chemie</i> , 0, , .	1.6	1
95	Intermolecular Photocatalytic Chemoâ€, Stereoâ€and Regioselective Thiolâ€yneâ€ene Coupling Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24
96	Controlled Disassembly of Elemental Sulfur: An Approach to the Precise Synthesis of Polydisulfides. <i>Angewandte Chemie</i> , 0, , .	1.6	0

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97	Synthesis and Characterization of Cationic Hydrogels from Thiolated Copolymers for Independent Manipulation of Mechanical and Chemical Properties of Cell Substrates. <i>Macromolecular Bioscience</i> , 2022, , 2100453.	2.1	2
98	Controlled Disassembly of Elemental Sulfur: An Approach to the Precise Synthesis of Polydisulfides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	23
99	One-Step Synthesis of Sequence-Controlled Polyester- <i>block</i> -Poly(ester- <i>alt</i> -thioester) by Chemoselective Multicomponent Polymerization. <i>Macromolecules</i> , 2022, 55, 1153-1164.	2.2	29
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101	One-pot synthesis and versatile applications of recyclable amina-linked dynamic framework. <i>New Journal of Chemistry</i> , 2022, 46, 8847-8854.	1.4	1
102	Spatial and Temporal Control of Photomediated Disulfide-Ene and Thiol-Ene Chemistries for Two-Stage Polymerizations. <i>Macromolecules</i> , 2022, 55, 1811-1821.	2.2	7
103	Lithium Salt-Induced In Situ Polymerizations Enable Double Network Polymer Electrolytes. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100853.	2.0	1
104	Tacticity Control of Cyclic Poly(3-thiobutyrate) Prepared by Ring-Opening Polymerization of Racemic 2-thiobutyrolactone. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	26
105	Stereoselective Ring-Opening Polymerization of Lactones with a Fused Ring Leading to Semicrystalline Polyesters. <i>Macromolecules</i> , 2022, 55, 2777-2786.	2.2	17
106	Tacticity Control of Cyclic Poly(3-thiobutyrate) Prepared by Ring-Opening Polymerization of Racemic 2-thiobutyrolactone. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
107	Ring-Opening polymerization of 1,4-oxathiane-2-one and its copolymerization with ϵ -valerolactone. <i>Journal of Polymer Science</i> , 2022, 60, 1976-1987.	2.0	2
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110	Imine-based multicomponent polymerization: Concepts, structural diversity and applications. <i>Progress in Polymer Science</i> , 2022, 128, 101528.	11.8	12
111	Thiol-reacting toluidine blue derivatives: Synthesis, photophysical properties and covalent conjugation with human serum albumin. <i>Dyes and Pigments</i> , 2022, 201, 110225.	2.0	4
112	Facile fabrication of self-healing silicone-based poly(urea-thiourea)/tannic acid composite for anti-biofouling. <i>Journal of Materials Science and Technology</i> , 2022, 124, 1-13.	5.6	29
113	Poly(disulfide)s: From Synthesis to Drug Delivery. <i>Biomacromolecules</i> , 2022, 23, 1-19.	2.6	40
114	Sulfur in Dynamic Covalent Chemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	32

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115	Sulfur-bridged chromophores for photofunctional materials: using sulfur oxidation state to tune electronic and structural properties. <i>Chemical Science</i> , 2022, 13, 5447-5464.	3.7	16
116	The copolymerization of SO ₂ with propylene oxide mediated by organic ammonium salts: a comprehensive study of the main-chain structure, living polymerization character and regioselectivity. <i>Polymer Chemistry</i> , 2022, 13, 3136-3143.	1.9	3
117	Facile construction of functional poly(monothiocarbonate) copolymers under mild operating conditions. <i>Polymer Chemistry</i> , 2022, 13, 3076-3090.	1.9	7
118	Thiocarbonyl chemistry in polymer science. <i>Polymer Chemistry</i> , 2022, 13, 2880-2901.	1.9	25
119	Sulfur in Dynamic Covalent Chemistry. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
120	Activated Internal Alkyne-Based Polymerization. <i>Chinese Journal of Chemistry</i> , 2022, 40, 2001-2013.	2.6	9
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124	Getting the Terms Right: Green, Sustainable, or Circular Chemistry?. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	15
125	Terahertz-Wave Absorption Gas Sensing for Dimethyl Sulfoxide. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5729.	1.3	3
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128	Ultraviolet In Situ Polymerized Binders with Polysulfide Trapping Properties for Long-Cycle-Life Lithium-Sulfur Batteries. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	2
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130	Synthesis of lanthanide tag and experimental studies on paramagnetically induced residual dipolar couplings. <i>BMC Chemistry</i> , 2022, 16, .	1.6	1
131	Room-Temperature Grafting from Synthesis of Protein-Polydisulfide Conjugates via Aggregation-Induced Polymerization. <i>Journal of the American Chemical Society</i> , 2022, 144, 15709-15717.	6.6	15
132	Correlation between the NMR Chemical Shifts and Thiolate Protonation Constants of Cysteamine, Homocysteine, and Penicillamine. <i>Journal of Spectroscopy</i> , 2022, 2022, 1-8.	0.6	0

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133	Synthesis of insoluble sulfur and development of green technology based on Aspen Plus simulation. <i>Green Processing and Synthesis</i> , 2022, 11, 886-894.	1.3	1
134	Chemoselective ring-opening copolymerization of five-membered cyclic carbonates and carbonyl sulfide toward poly(thioether)s. <i>Polymer Chemistry</i> , 2022, 13, 5397-5403.	1.9	6
135	Recent advances in the ring-opening polymerization of sulfur-containing monomers. <i>Polymer Chemistry</i> , 2022, 13, 4858-4878.	1.9	25
136	Thiolactone chemistry, a versatile platform for macromolecular engineering. <i>Polymer Chemistry</i> , 2022, 13, 4592-4614.	1.9	10
137	Metal-free thioesterification of α,β -unsaturated aldehydes with thiols. <i>Organic Chemistry Frontiers</i> , 2022, 9, 4846-4853.	2.3	3
138	Functional Liquid Crystal Elastomers Based on Dynamic Covalent Chemistry. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	18
139	Straightforward synthesis of aliphatic polydithiocarbonates from commercially available starting materials. <i>Polymer Chemistry</i> , 2022, 13, 5965-5973.	1.9	0
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141	Brønsted acid catalysis opens a new route to polythioesters via the direct condensation of thiolactic acid to thiolactide. <i>Green Chemistry</i> , 2022, 24, 9709-9720.	4.6	6
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