

Maciej Podgórski

List of Publications by Year in descending order

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38
papers

1,465
citations

361045

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344852

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docs citations

39
times ranked

1380
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Stimuli-Responsive Dynamic Thermosets through Continuous Development and Improvements in Covalent Adaptable Networks (CANs). <i>Advanced Materials</i> , 2020, 32, e1906876.	11.1	273
2	A readily programmable, fully reversible shape-switching material. <i>Science Advances</i> , 2018, 4, eaat4634.	4.7	146
3	Enabling Applications of Covalent Adaptable Networks. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2019, 10, 175-198.	3.3	134
4	Visible-Light Initiated Thiol-Michael Addition Photopolymerization Reactions. <i>ACS Macro Letters</i> , 2014, 3, 315-318.	2.3	71
5	Ester-free thiol-ene dental restoratives Part A: Resin development. <i>Dental Materials</i> , 2015, 31, 1255-1262.	1.6	71
6	Visible-Light-Initiated Thiol-Michael Addition Polymerizations with Coumarin-Based Photobase Generators: Another Photoclick Reaction Strategy. <i>ACS Macro Letters</i> , 2016, 5, 229-233.	2.3	58
7	Thiol-Anhydride Dynamic Reversible Networks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9345-9349.	7.2	57
8	Temporal Control of Thiol-Click Chemistry. <i>Chemistry of Materials</i> , 2013, 25, 3897-3901.	3.2	52
9	Ester-free thiol-X resins: new materials with enhanced mechanical behavior and solvent resistance. <i>Polymer Chemistry</i> , 2015, 6, 2234-2240.	1.9	48
10	Chemical recycling of poly(thiourethane) thermosets enabled by dynamic thiourethane bonds. <i>Polymer Chemistry</i> , 2020, 11, 6879-6883.	1.9	41
11	Mechanistic Modeling of the Thiol-Michael Addition Polymerization Kinetics: Structural Effects of the Thiol and Vinyl Monomers. <i>Macromolecules</i> , 2018, 51, 5979-5988.	2.2	36
12	Mixed mechanisms of bond exchange in covalent adaptable networks: monitoring the contribution of reversible exchange and reversible addition in thiol-succinic anhydride dynamic networks. <i>Polymer Chemistry</i> , 2020, 11, 5365-5376.	1.9	35
13	Pristine Polysulfone Networks as a Class of Polysulfide-Derived High-Performance Functional Materials. <i>Chemistry of Materials</i> , 2016, 28, 5102-5109.	3.2	34
14	High Refractive Index Photopolymers by Thiol-Yne Click-Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15647-15658.	4.0	34
15	Development of Glassy Step-Growth Thiol-Vinyl Sulfone Polymer Networks. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1497-1502.	2.0	32
16	Holographic Photopolymer Material with High Dynamic Range ($\hat{I}^n < i>n </i>$) via Thiol-Ene Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44103-44109.	4.0	30
17	Thiol-Michael addition miniemulsion polymerizations: functional nanoparticles and reactive latex films. <i>Polymer Chemistry</i> , 2015, 6, 3758-3763.	1.9	29
18	Ester-free thiol-ene dental restoratives Part B: Composite development. <i>Dental Materials</i> , 2015, 31, 1263-1270.	1.6	29

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19	Additive Manufacture of Dynamic Thiol-ene Networks Incorporating Anhydride-Derived Reversible Thioester Links. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12789-12796.	4.0	29
20	Programmable Mechanically Assisted Geometric Deformations of Glassy Two-Stage Reactive Polymeric Materials. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6111-6119.	4.0	26
21	Shape Permanence in Diarylethene-Functionalized Liquid-Crystal Elastomers Facilitated by Thiol-Anhydride Dynamic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
22	Realizing High Refractive Index Thiol-X Materials: A General and Scalable Synthetic Approach. , 2019, 1, 582-588.		21
23	Phototriggered Base Amplification for Thiol-Michael Addition Reactions in Cross-linked Photopolymerizations with Efficient Dark Cure. <i>Macromolecules</i> , 2020, 53, 6331-6340.	2.2	16
24	Assessment of TEMPO as a thermally activatable base generator and its use in initiation of thermally-triggered thiol-Michael addition polymerizations. <i>Polymer Chemistry</i> , 2018, 9, 4294-4302.	1.9	15
25	Thiol-Anhydride Dynamic Reversible Networks. <i>Angewandte Chemie</i> , 2020, 132, 9431-9435.	1.6	15
26	Multifunctional monomers based on vinyl sulfonates and vinyl sulfonamides for crosslinking thiol-Michael polymerizations: monomer reactivity and mechanical behavior. <i>Chemical Communications</i> , 2018, 54, 3034-3037.	2.2	13
27	Thermoreversible Folding as a Route to the Unique Shape-Memory Character in Ductile Polymer Networks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22739-22745.	4.0	13
28	Manipulating the Relative Rates of Reaction and Diffusion in a Holographic Photopolymer Based on Thiol-ene Chemistry. <i>Macromolecules</i> , 2022, 55, 1822-1833.	2.2	13
29	Structural Evidence That the Polymerization Rate Dictates Order and Intrinsic Strain Generation in Photocured Methacrylate Biomedical Polymers. <i>Macromolecules</i> , 2019, 52, 5377-5388.	2.2	12
30	Dynamic covalent chemistry (DCC) in dental restorative materials: Implementation of a DCC-based adaptive interface (AI) at the resin-filler interface for improved performance. <i>Dental Materials</i> , 2020, 36, 53-59.	1.6	11
31	Substituted Thiols in Dynamic Thiol-Thioester Reactions. <i>Macromolecules</i> , 2021, 54, 8341-8351.	2.2	11
32	Radical-disulfide exchange in thiol-ene-disulfidation polymerizations. <i>Polymer Chemistry</i> , 2022, 13, 3991-4003.	1.9	9
33	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
34	Thermal Metamorphosis in (Meth)acrylate Photopolymers: Stress Relaxation, Reshaping, and Second-Stage Reaction. <i>Macromolecules</i> , 2019, 52, 8114-8123.	2.2	6
35	Vinyl sulfonamide based thermosetting composites via thiol-Michael polymerization. <i>Dental Materials</i> , 2020, 36, 249-256.	1.6	6
36	Covalent Adaptable Networks: Toward Stimuli-Responsive Dynamic Thermosets through Continuous Development and Improvements in Covalent Adaptable Networks (CANs) (<i>Adv. Mater.</i> 20/2020). <i>Advanced Materials</i> , 2020, 32, 2070158.	11.1	5

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37	Cross-Linked Polythiomethacrylate Esters Based on Naphthalene—Synthesis, Properties and Reprocessing. <i>Materials</i> , 2020, 13, 3021.	1.3	4
38	Shape Permanence in Diarylethene—Functionalized Liquid—Crystal Elastomers Facilitated by Thiol—Anhydride Dynamic Chemistry. <i>Angewandte Chemie</i> , 0, , .	1.6	1