

Sudheendran Mavila

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,317
citations

471061

17
h-index

454577

30
g-index

39
all docs

39
docs citations

39
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Intramolecular Cross-Linking Methodologies for the Synthesis of Polymer Nanoparticles. <i>Chemical Reviews</i> , 2016, 116, 878-961.	23.0	321
2	Photoclick Chemistry: A Bright Idea. <i>Chemical Reviews</i> , 2021, 121, 6915-6990.	23.0	113
3	Bistable and photoswitchable states of matter. <i>Nature Communications</i> , 2018, 9, 2804.	5.8	111
4	Polycyclooctadiene Complexes of Rhodium(I): Direct Access to Organometallic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5767-5770.	7.2	81
5	A user's guide to the thiol-thioester exchange in organic media: scope, limitations, and applications in material science. <i>Polymer Chemistry</i> , 2018, 9, 4523-4534.	1.9	78
6	A general approach to mono- and bimetallic organometallic nanoparticles. <i>Chemical Science</i> , 2014, 5, 4196-4203.	3.7	70
7	Thiol-Anhydride Dynamic Reversible Networks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9345-9349.	7.2	57
8	Dynamic and Responsive DNA-like Polymers. <i>Journal of the American Chemical Society</i> , 2018, 140, 13594-13598.	6.6	45
9	Productive Exchange of Thiols and Thioesters to Form Dynamic Polythioester-Based Polymers. <i>ACS Macro Letters</i> , 2018, 7, 1312-1316.	2.3	40
10	High Dynamic Range (\hat{I}^n) Two-Stage Photopolymers via Enhanced Solubility of a High Refractive Index Acrylate Writing Monomer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1217-1224.	4.0	39
11	Regioselective Chromatic Orthogonality with Light-Activated Metathesis Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12384-12388.	7.2	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	High Refractive Index Photopolymers by Thiol-Yne α -Click Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15647-15658.	4.0	34
14	Holographic Photopolymer Material with High Dynamic Range (\hat{I}^n) via Thiol-Ene Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44103-44109.	4.0	30
15	Single-chain polybutadiene organometallic nanoparticles: an experimental and theoretical study. <i>Chemical Science</i> , 2016, 7, 1773-1778.	3.7	28
16	Regioselective Chromatic Orthogonality with Light-Activated Metathesis Catalysts. <i>Angewandte Chemie</i> , 2015, 127, 12561-12565.	1.6	26
17	Cyclopolymerization-derived block-copolymers of 4,4-bis(octyloxymethyl)-1,6-heptadiyne with 4,4-dipropargyl malonodinitrile for use in photovoltaics. <i>Polymer Chemistry</i> , 2013, 4, 1590-1599.	1.9	24
18	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

#	ARTICLE	IF	CITATIONS
19	Realizing High Refractive Index Thiol-X Materials: A General and Scalable Synthetic Approach. , 2019, 1, 582-588.		21
20	A Continuous Bioreactor Prepared via the Immobilization of Trypsin on Aldehyde-Functionalized, Ring-Opening Metathesis Polymerization-Derived Monoliths. <i>Macromolecules</i> , 2010, 43, 9601-9607.	2.2	17
21	Thiol-Anhydride Dynamic Reversible Networks. <i>Angewandte Chemie</i> , 2020, 132, 9431-9435.	1.6	15
22	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
23	p-Doping and Fiber Spinning of Poly(heptadiyne)s. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1047-1051.	1.1	8
24	Production of dynamic lipid bilayers using the reversible thiol-thioester exchange reaction. <i>Chemical Communications</i> , 2018, 54, 8108-8111.	2.2	8
25	Towards High-Efficiency Synthesis of Xenonucleic Acids. <i>Trends in Chemistry</i> , 2020, 2, 43-56.	4.4	8
26	Athermal, Chemically Triggered Release of RNA from Thioester Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
27	Heterogenization of ferrocene palladacycle catalysts on ROMP-derived monolithic supports and application to a Michael addition. <i>New Journal of Chemistry</i> , 2014, 38, 5597-5607.	1.4	5
28	Formation of lipid vesicles <i>in situ</i> utilizing the thiol-Michael reaction. <i>Soft Matter</i> , 2018, 14, 7645-7652.	1.2	5
29	Systematic Modulation and Structure-Property Relationships in Photopolymerizable Thermoplastics. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1171-1181.	2.0	4
30	Shape Permanence in Diarylethene-Functionalized Liquid-Crystal Elastomers Facilitated by Thiol-Anhydride Dynamic Chemistry. <i>Angewandte Chemie</i> , 0, , .	1.6	1
31	Athermal, Chemically Triggered Release of RNA from Thioester Nucleic Acids. <i>Angewandte Chemie</i> , 0, , .	1.6	0
32	High dynamic range two-stage photopolymer materials through enhanced solubility high refractive index writing monomers. , 2018, , .		0
33	Two-stage holographic photopolymers with high dynamic range. , 2019, , .		0