

Stephen Schrettl

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,601
citations

331259

21
h-index

329751

37
g-index

49
all docs

49
docs citations

49
times ranked

2017
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechano- and Thermoresponsive Photoluminescent Supramolecular Polymer. <i>Journal of the American Chemical Society</i> , 2017, 139, 4302-4305.	6.6	185
2	Nanostructured Carbonaceous Materials from Molecular Precursors. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6496-6515.	7.2	144
3	Approaches to polymeric mechanochromic materials. <i>Journal of Polymer Science Part A</i> , 2017, 55, 640-652.	2.5	125
4	<i>50th Anniversary Perspective</i>: Solid-State Multistimuli, Multiresponsive Polymeric Materials. <i>Macromolecules</i> , 2017, 50, 8845-8870.	2.2	117
5	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. <i>Nature Chemistry</i> , 2014, 6, 468-476.	6.6	97
6	Self-Calibrating Mechanochromic Fluorescent Polymers Based on Encapsulated Excimer-Forming Dyes. <i>Advanced Materials</i> , 2018, 30, e1704603.	11.1	81
7	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. <i>Journal of the American Chemical Society</i> , 2021, 143, 5519-5525.	6.6	76
8	From Molecules to Polymers—Harnessing Inter- and Intramolecular Interactions to Create Mechanochromic Materials. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000573.	2.0	70
9	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16191-16199.	7.2	61
10	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. <i>Journal of the American Chemical Society</i> , 2021, 143, 9884-9892.	6.6	58
11	Mechanochromism in Structurally Colored Polymeric Materials. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000528.	2.0	55
12	A multistep single-crystal-to-single-crystal bromodiacetylene dimerization. <i>Nature Chemistry</i> , 2013, 5, 327-334.	6.6	53
13	Facile synthesis of oligoyne amphiphiles and their rotaxanes. <i>Chemical Science</i> , 2015, 6, 564-574.	3.7	52
14	Templating for hierarchical structure control in carbon materials. <i>Nanoscale</i> , 2016, 8, 18828-18848.	2.8	34
15	Elements for a Rational Polymer Approach towards Carbon Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6569-6571.	7.2	32
16	Mechanoresponsive, Luminescent Polymer Blends Based on an Excimer-Forming Telechelic Macromolecule. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800705.	2.0	30
17	Optical gap and fundamental gap of oligoynes and carbyne. <i>Nature Communications</i> , 2020, 11, 4797.	5.8	28
18	Mechanically robust supramolecular polymer co-assemblies. <i>Nature Communications</i> , 2022, 13, 356.	5.8	26

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19	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 228-234.	0.7	25
20	Structure-Property Relationships of Microphase-Separated Metallosupramolecular Polymers. <i>Macromolecules</i> , 2020, 53, 5068-5084.	2.2	25
21	Dynamics and healing behavior of metallosupramolecular polymers. <i>Science Advances</i> , 2021, 7, .	4.7	25
22	Light-responsive azo-containing organogels. <i>Soft Matter</i> , 2017, 13, 4017-4023.	1.2	21
23	Mechanochromic Polymers Based on Microencapsulated Solvatochromic Dyes. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900654.	2.0	18
24	Tough Bioinspired Composites That Self-Report Damage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27481-27490.	4.0	17
25	Strain-correlated mechanochromism in different polyurethanes featuring a supramolecular mechanophore. <i>Polymer Chemistry</i> , 2022, 13, 2860-2869.	1.9	16
26	Functional Polymers Through Mechanochemistry. <i>Chimia</i> , 2019, 73, 7.	0.3	13
27	Solid-state sensors based on Eu ³⁺ -containing supramolecular polymers with luminescence colour switching capability. <i>Dalton Transactions</i> , 2018, 47, 14184-14188.	1.6	12
28	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. <i>Angewandte Chemie</i> , 2021, 133, 16327-16335.	1.6	11
29	Mechanoresponsive Elastomers Made with Excimer-Forming Telechelics. <i>Organic Materials</i> , 2020, 02, 313-322.	1.0	11
30	Preparation of metallosupramolecular single-chain polymeric nanoparticles and their characterization by Taylor dispersion. <i>Polymer Chemistry</i> , 2020, 11, 586-592.	1.9	10
31	A Versatile Colorimetric Probe based on Thiosemicarbazide-Amine Proton Transfer. <i>Chemistry - A European Journal</i> , 2018, 24, 7369-7373.	1.7	8
32	Healing of Polymeric Solids by Supramolecular Means. <i>Chimia</i> , 2019, 73, 277.	0.3	8
33	Metal-Ligand Complexes as Dynamic Sacrificial Bonds in Elastic Polymers. <i>Macromolecules</i> , 2022, 55, 5164-5175.	2.2	8
34	Spatially Resolved Production of Platinum Nanoparticles in Metallosupramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2020, 142, 342-348.	6.6	7
35	Synthesis and properties of poly(norbornene)s with lateral aramid groups. <i>Polymer Chemistry</i> , 2019, 10, 2057-2063.	1.9	6
36	Carbon-Rich Nanostructures from Molecular Precursors. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1304, 1.	0.1	0

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37	Low-temperature Preparation of Functional Carbon Nanocapsules via Self-assembly and Carbonization of Hexayne Amphiphiles. <i>Chimia</i> , 2013, 67, 429-429.	0.3	0
38	Preparation of Carbon Nanosheets at Room Temperature. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	0
39	10. Synthesis and Use of Reactive Molecular Precursors for the Preparation of Carbon Nanomaterials. , 2017, , .		0
40	Synthesis and Use of Reactive Molecular Precursors for the Preparation of Carbon Nanomaterials. <i>ChemistrySelect</i> , 2017, 2, .	0.7	0
41	Zerovalent Metallosupramolecular Polymers as Precursors to Nanocomposites. <i>Chimia</i> , 2020, 74, 821.	0.3	0
42	Metallosupramolecular polymers as precursors for platinum nanocomposites. <i>Polymer Chemistry</i> , 2022, 13, 1880-1890.	1.9	0
43	Supramolecular Rings as Building Blocks for Stimuli-Responsive Materials. <i>Gels</i> , 2022, 8, 350.	2.1	0