Stephen Schrettl

List of Publications by Year
in descending order

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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	Mechanically robust supramolecular polymer co-assemblies. Nature Communications, 2022, 13, 356.	5.8	26
2	Metallosupramolecular polymers as precursors for platinum nanocomposites. Polymer Chemistry, 2022, 13, 1880-1890.	1.9	0
3	Strain-correlated mechanochromism in different polyurethanes featuring a supramolecular mechanophore. Polymer Chemistry, 2022, 13, 2860-2869.	1.9	16
4	Supramolecular Rings as Building Blocks for Stimuli-Responsive Materials. Gels, 2022, 8, 350.	2.1	0
5	Metalâ€“Ligand Complexes as Dynamic Sacrificial Bonds in Elastic Polymers. Macromolecules, 2022, 55, 5164-5175.	2.2	8
6	From Molecules to Polymersâ€”Harnessing Interâ€•and Intramolecular Interactions to Create Mechanochromic Materials. Macromolecular Rapid Communications, 2021, 42, e2000573.	2.0	70
7	Mechanochromism in Structurally Colored Polymeric Materials. Macromolecular Rapid Communications, 2021, 42, e2000528.	2.0	55
8	Mechanically Responsive Luminescent Polymers Based on Supramolecular Cyclophane Mechanophores. Journal of the American Chemical Society, 2021, 143, 5519-5525.	6.6	76
9	Dynamics and healing behavior of metallosupramolecular polymers. Science Advances, 2021, 7, .	4.7	25
10	Rotaxane-Based Dual Function Mechanophores Exhibiting Reversible and Irreversible Responses. Journal of the American Chemical Society, 2021, 143, 9884-9892.	6.6	58
11	Tough Bioinspired Composites That Self-Report Damage. ACS Applied Materials & Interfaces, 2021, 13, 27481-27490.	4.0	17
12	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. Angewandte Chemie, 2021, 133, 16327-16335.	1.6	11
13	Folded Perylene Diimide Loops as Mechanoresponsive Motifs. Angewandte Chemie - International Edition, 2021, 60, 16191-16199.	7.2	61
14	Preparation of metallosupramolecular single-chain polymeric nanoparticles and their characterization by Taylor dispersion. Polymer Chemistry, 2020, 11, 586-592.	1.9	10
15	Spatially Resolved Production of Platinum Nanoparticles in Metallosupramolecular Polymers. Journal of the American Chemical Society, 2020, 142, 342-348.	6.6	7
16	Zerovalent Metallosupramolecular Polymers as Precursors to Nanocomposites. Chimia, 2020, 74, 821.	0.3	0
17	Optical gap and fundamental gap of oligoynes and carbyne. Nature Communications, 2020, 11, 4797.	5.8	28
18	Mechanochromic Polymers Based on Microencapsulated Solvatochromic Dyes. Macromolecular Rapid Communications, 2020, 41, 1900654.	2.0	18

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19	Structureâ€“Property Relationships of Microphase-Separated Metallosupramolecular Polymers. Macromolecules, 2020, 53, 5068-5084.	2.2	25
20	Mechanoresponsive Elastomers Made with Excimer-Forming Telechelics. Organic Materials, 2020, 02, 313-322.	1.0	11
21	Synthesis and properties of poly(norbornene)s with lateral aramid groups. Polymer Chemistry, 2019, 10, 2057-2063.	1.9	6
22	Functional Polymers Through Mechanochemistry. Chimia, 2019, 73, 7.	0.3	13
23	Healing of Polymeric Solids by Supramolecular Means. Chimia, 2019, 73, 277.	0.3	8
24	Mechanoresponsive, Luminescent Polymer Blends Based on an Excimerâ€Forming Telechelic Macromolecule. Macromolecular Rapid Communications, 2019, 40, e1800705.	2.0	30
25	A Versatile Colorimetric Probe based on Thiosemicarbazideâ€“Amine Proton Transfer. Chemistry - A European Journal, 2018, 24, 7369-7373.	1.7	8
26	Selfâ€Calibrating Mechanochromic Fluorescent Polymers Based on Encapsulated Excimerâ€Forming Dyes. Advanced Materials, 2018, 30, e1704603.	11.1	81
27	Solid-state sensors based on Eu³⁺-containing supramolecular polymers with luminescence colour switching capability. Dalton Transactions, 2018, 47, 14184-14188.	1.6	12
28	Light-responsive azo-containing organogels. Soft Matter, 2017, 13, 4017-4023.	1.2	21
29	Mechano- and Thermoresponsive Photoluminescent Supramolecular Polymer. Journal of the American Chemical Society, 2017, 139, 4302-4305.	6.6	185
30	Approaches to polymeric mechanochromic materials. Journal of Polymer Science Part A, 2017, 55, 640-652.	2.5	125
31	50th Anniversary Perspective: Solid-State Multistimuli, Multiresponsive Polymeric Materials. Macromolecules, 2017, 50, 8845-8870.	2.2	117
32	10. Synthesis and Use of Reactive Molecular Precursors for the Preparation of Carbon Nanomaterials. , 2017, , .		0
33	Synthesis and Use of Reactive Molecular Precursors for the Preparation of Carbon Nanomaterials. ChemistrySelect, 2017, 2, .	0.7	0
34	Templating for hierarchical structure control in carbon materials. Nanoscale, 2016, 8, 18828-18848.	2.8	34
35	Preparation of Carbon Nanosheets at Room Temperature. Journal of Visualized Experiments, 2016, , .	0.2	0
36	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. International Journal of Mass Spectrometry, 2015, 377, 228-234.	0.7	25

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37	Facile synthesis of oligoyne amphiphiles and their rotaxanes. Chemical Science, 2015, 6, 564-574.	3.7	52
38	Functional carbon nanosheets prepared from hexayne amphiphile monolayers at room temperature. Nature Chemistry, 2014, 6, 468-476.	6.6	97
39	A multistep single-crystal-to-single-crystal bromodiacetylene dimerization. Nature Chemistry, 2013, 5, 327-334.	6.6	53
40	Low-temperature Preparation of Functional Carbon Nanocapsules <I>via</I> Self-assembly and Carbonization of Hexayne Amphiphiles. Chimia, 2013, 67, 429-429.	0.3	0
41	Elements for a Rational Polymer Approach towards Carbon Nanostructures. Angewandte Chemie - International Edition, 2012, 51, 6569-6571.	7.2	32
42	Carbon-Rich Nanostructures from Molecular Precursors. Materials Research Society Symposia Proceedings, 2011, 1304, 1.	0.1	0
43	Nanostructured Carbonaceous Materials from Molecular Precursors. Angewandte Chemie - International Edition, 2010, 49, 6496-6515.	7.2	144