Yang Yang

List of Publications by Year
in descending order

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30 papers	3,551 citations	279701 23 h-index	414303 32 g-index
32 all docs	32 docs citations	32 times ranked	2944 citing authors

#	Article	IF	Citations
1	<scp>Li₄Ti₅O₁₂</scp> spinel anode: Fundamentals and advances in rechargeable batteries. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	71
2	Locally controllable magnetic soft actuators with reprogrammable contraction-derived motions. Science Advances, 2022, 8, .	4.7	57
3	Zero-Dimensional Molecular Ferroelectrics with Significant Nonlinear Effect and Giant Entropy. Chemistry of Materials, 2022, 34, 6323-6330.	3.2	12
4	Functional epoxy vitrimers and composites. Progress in Materials Science, 2021, 120, 100710.	16.0	178
5	â€œReprocessable Thermosetsâ€: Synthesis and Characterization of Vitrimer in the Undergraduate Lab Course. Journal of Chemical Education, 2021, 98, 1429-1435.	1.1	6
6	PEGâ€Induced Controllable Thinâ^'Thickness Gradient and Water Retention: A Simple Way to Programme Deformation of Hydrogel Actuators. Macromolecular Rapid Communications, 2021, 42, e2000749.	2.0	7
7	Vitrimer-based soft actuators with multiple responsiveness and self-healing ability triggered by multiple stimuli. Matter, 2021, 4, 3354-3365.	5.0	38
8	Liquidâ€Crystalline Soft Actuators with Switchable Thermal Reprogrammability. Angewandte Chemie, 2020, 132, 4808-4814.	1.6	14
9	Liquidâ€Crystalline Soft Actuators with Switchable Thermal Reprogrammability. Angewandte Chemie - International Edition, 2020, 59, 4778-4784.	7.2	102
10	A magnetic solder for assembling bulk covalent adaptable network blocks. Chemical Science, 2020, 11, 7694-7700.	3.7	15
11	Electricity-Triggered Self-Healing of Conductive and Thermostable Vitrimer Enabled by Paving Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2020, 12, 14315-14322.	4.0	60
12	Seamless multimaterial 3D liquid-crystalline elastomer actuators for next-generation entirely soft robots. Science Advances, 2020, 6, eaay8606.	4.7	108
13	Detecting topology freezing transition temperature of vitrimers by AIE luminogens. Nature Communications, 2019, 10, 3165.	5.8	136
14	Harnessing the Dayâ€“Night Rhythm of Humidity and Sunlight into Mechanical Work Using Recyclable and Reprogrammable Soft Actuators. ACS Applied Materials & Interfaces, 2019, 11, 29290-29297.	4.0	28
15	Reprocessable Thermoset Soft Actuators. Angewandte Chemie, 2019, 131, 17635-17640.	1.6	23
16	Reprocessable Thermoset Soft Actuators. Angewandte Chemie - International Edition, 2019, 58, 17474-17479.	7.2	90
17	Durable liquid-crystalline vitrimer actuators. Chemical Science, 2019, 10, 3025-3030.	3.7	82
18	Guest Controlled Pillar[5]arene and Polyoxometalate Based Two-Dimensional Nanostructures toward Reversible Iodine Capture. ACS Applied Materials & Interfaces, 2019, 11, 8537-8544.	4.0	22

#	Article	IF	Citations
19	A durable monolithic polymer foam for efficient solar steam generation. Chemical Science, 2018, 9, 623-628.	3.7	235
20	Untethered Recyclable Tubular Actuators with Versatile Locomotion for Soft Continuum Robots. Advanced Materials, 2018, 30, e1801103.	11.1	133
21	Solvent-assisted programming of flat polymer sheets into reconfigurable and self-healing 3D structures. Nature Communications, 2018, 9, 1906.	5.8	108
22	Polydopamine nanoparticles doped in liquid crystal elastomers for producing dynamic 3D structures. Journal of Materials Chemistry A, 2017, 5, 6740-6746.	5.2	98
23	Enabling the sunlight driven response of thermally induced shape memory polymers by rewritable CH₃NH₃PbI₃ perovskite coating. Journal of Materials Chemistry A, 2017, 5, 7285-7290.	5.2	39
24	Atomic-level molybdenum oxide nanorings with full-spectrum absorption and photoresponsive properties. Nature Communications, 2017, 8, 1559.	5.8	81
25	Multi-stimuli responsive and multi-functional oligoaniline-modified vitrimers. Chemical Science, 2017, 8, 724-733.	3.7	178
26	Regional Shape Control of Strategically Assembled Multishape Memory Vitrimers. Advanced Materials, 2016, 28, 156-160.	11.1	213
27	Polydopamine coated shape memory polymer: enabling light triggered shape recovery, light controlled shape reprogramming and surface functionalization. Chemical Science, 2016, 7, 4741-4747.	3.7	128
28	Making and Remaking Dynamic 3D Structures by Shining Light on Flat Liquid Crystalline Vitrimer Films without a Mold. Journal of the American Chemical Society, 2016, 138, 2118-2121.	6.6	334
29	Mouldable liquid-crystalline elastomer actuators with exchangeable covalent bonds. Nature Materials, 2014, 13, 36-41.	13.3	670
30	Carbon nanotubeâ€“vitrimer composite for facile and efficient photo-welding of epoxy. Chemical Science, 2014, 5, 3486-3492.	3.7	258