

# Yang Yang

## List of Publications by Year in descending order

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30  
papers

3,551  
citations

279701

23  
h-index

414303

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g-index

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all docs

32  
docs citations

32  
times ranked

2944  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mouldable liquid-crystalline elastomer actuators with exchangeable covalent bonds. <i>Nature Materials</i> , 2014, 13, 36-41.	13.3	670
2	Making and Remaking Dynamic 3D Structures by Shining Light on Flat Liquid Crystalline Vitriimer Films without a Mold. <i>Journal of the American Chemical Society</i> , 2016, 138, 2118-2121.	6.6	334
3	Carbon nanotube vitriimer composite for facile and efficient photo-welding of epoxy. <i>Chemical Science</i> , 2014, 5, 3486-3492.	3.7	258
4	A durable monolithic polymer foam for efficient solar steam generation. <i>Chemical Science</i> , 2018, 9, 623-628.	3.7	235
5	Regional Shape Control of Strategically Assembled Multishape Memory Vitrimers. <i>Advanced Materials</i> , 2016, 28, 156-160.	11.1	213
6	Multi-stimuli responsive and multi-functional oligoaniline-modified vitrimers. <i>Chemical Science</i> , 2017, 8, 724-733.	3.7	178
7	Functional epoxy vitrimers and composites. <i>Progress in Materials Science</i> , 2021, 120, 100710.	16.0	178
8	Detecting topology freezing transition temperature of vitrimers by AIE luminogens. <i>Nature Communications</i> , 2019, 10, 3165.	5.8	136
9	Untethered Recyclable Tubular Actuators with Versatile Locomotion for Soft Continuum Robots. <i>Advanced Materials</i> , 2018, 30, e1801103.	11.1	133
10	Polydopamine coated shape memory polymer: enabling light triggered shape recovery, light controlled shape reprogramming and surface functionalization. <i>Chemical Science</i> , 2016, 7, 4741-4747.	3.7	128
11	Solvent-assisted programming of flat polymer sheets into reconfigurable and self-healing 3D structures. <i>Nature Communications</i> , 2018, 9, 1906.	5.8	108
12	Seamless multimaterial 3D liquid-crystalline elastomer actuators for next-generation entirely soft robots. <i>Science Advances</i> , 2020, 6, eaay8606.	4.7	108
13	Liquid-Crystalline Soft Actuators with Switchable Thermal Reprogrammability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4778-4784.	7.2	102
14	Polydopamine nanoparticles doped in liquid crystal elastomers for producing dynamic 3D structures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6740-6746.	5.2	98
15	Reprocessable Thermoset Soft Actuators. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17474-17479.	7.2	90
16	Durable liquid-crystalline vitriimer actuators. <i>Chemical Science</i> , 2019, 10, 3025-3030.	3.7	82
17	Atomic-level molybdenum oxide nanorings with full-spectrum absorption and photoresponsive properties. <i>Nature Communications</i> , 2017, 8, 1559.	5.8	81
18	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ spinel anode: Fundamentals and advances in rechargeable batteries. <i>Informa-Materials</i> , 2022, 4, .	8.5	71

#	ARTICLE	IF	CITATIONS
19	Electricity-Triggered Self-Healing of Conductive and Thermostable Vitriimer Enabled by Paving Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2020, 12, 14315-14322.	4.0	60
20	Locally controllable magnetic soft actuators with reprogrammable contraction-derived motions. Science Advances, 2022, 8, .	4.7	57
21	Enabling the sunlight driven response of thermally induced shape memory polymers by rewritable CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite coating. Journal of Materials Chemistry A, 2017, 5, 7285-7290.	5.2	39
22	Vitriimer-based soft actuators with multiple responsiveness and self-healing ability triggered by multiple stimuli. Matter, 2021, 4, 3354-3365.	5.0	38
23	Harnessing the Day-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
24	Reprocessable Thermoset Soft Actuators. Angewandte Chemie, 2019, 131, 17635-17640.	1.6	23
25	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
26	A magnetic solder for assembling bulk covalent adaptable network blocks. Chemical Science, 2020, 11, 7694-7700.	3.7	15
27	Liquid-Crystalline Soft Actuators with Switchable Thermal Reprogrammability. Angewandte Chemie, 2020, 132, 4808-4814.	1.6	14
28	Zero-Dimensional Molecular Ferroelectrics with Significant Nonlinear Effect and Giant Entropy. Chemistry of Materials, 2022, 34, 6323-6330.	3.2	12
29	PEG-Induced Controllable Thin Thickness Gradient and Water Retention: A Simple Way to Programme Deformation of Hydrogel Actuators. Macromolecular Rapid Communications, 2021, 42, e2000749.	2.0	7
30	Reprocessable Thermosets: Synthesis and Characterization of Vitriimer in the Undergraduate Lab Course. Journal of Chemical Education, 2021, 98, 1429-1435.	1.1	6