

Si Yu Zheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

692

citations

13

h-index

26

g-index

29

ext. papers

1,043

ext. citations

8.4

avg, IF

4.13

L-index

#	Paper	IF	Citations
26	Versatile and Simple Strategy for Preparing Bilayer Hydrogels with Janus Characteristics.. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 4579-4587	9.5	1
25	Ionic Interaction-Driven Switchable Bactericidal Surfaces.. <i>Acta Biomaterialia</i> , 2022 ,	10.8	1
24	Polyzwitterionic double-network ionogel electrolytes for supercapacitors with cryogenic-effective stability. <i>Chemical Engineering Journal</i> , 2022 , 438, 135607	14.7	2
23	Spontaneous and rapid electro-actuated snapping of constrained polyelectrolyte hydrogels.. <i>Science Advances</i> , 2022 , 8, eabm9608	14.3	8
22	Plastic-Like Supramolecular Hydrogels with Polyelectrolyte/Surfactant Complexes as Physical Cross-links. <i>Macromolecules</i> , 2021 , 54, 8052-8066	5.5	7
21	Engineering Tough Metallosupramolecular Hydrogel Films with Kirigami Structures for Compliant Soft Electronics. <i>Small</i> , 2021 , 17, e2103836	11	24
20	Zwitterionic Nanocapsules with Salt- and Thermo-Responsiveness for Controlled Encapsulation and Release. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47090-47099	9.5	2
19	Cationic peptide-based salt-responsive antibacterial hydrogel dressings for wound healing. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 754-762	7.9	3
18	Reversibly Transforming a Highly Swollen Polyelectrolyte Hydrogel to an Extremely Tough One and its Application as a Tubular Grasper. <i>Advanced Materials</i> , 2020 , 32, e2005171	24	52
17	Integrated multifunctional flexible electronics based on tough supramolecular hydrogels with patterned silver nanowires. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7688-7697	7.1	22
16	Actuators assembled from hydrogel blocks of various shapes via condensation reactions. <i>Materials Chemistry and Physics</i> , 2020 , 253, 123332	4.4	5
15	Constitutive behaviors of tough physical hydrogels with dynamic metal-coordinated bonds. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 139, 103935	5	24
14	Fracture of tough and stiff metallosupramolecular hydrogels. <i>Materials Today Physics</i> , 2020 , 13, 100202	8	9
13	Carbon Dot/Poly(methylacrylic acid) Nanocomposite Hydrogels with High Toughness and Strong Fluorescence. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1043-1052	4.3	13
12	Programmable Deformations of Biomimetic Composite Hydrogels Embedded with Printed Fibers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57497-57504	9.5	7
11	Slide-Ring Cross-Links Mediated Tough Metallosupramolecular Hydrogels with Superior Self-Recoverability. <i>Macromolecules</i> , 2019 , 52, 6748-6755	5.5	43
10	Anisotropic nanocomposite films of hydroxypropylcellulose and graphene oxide with multi-responsiveness.. <i>RSC Advances</i> , 2019 , 9, 28876-28885	3.7	1

9	Programmable Multistable Hydrogel Morphs. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900055	6	9
8	Photodirected Morphing Structures of Nanocomposite Shape Memory Hydrogel with High Stiffness and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43631-43640	9.5	15
7	Improving the Stability of Green Thermally Activated Delayed Fluorescence OLEDs by Reducing the Excited-State Dipole Moment. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29875-29883	3.8	14
6	Programmed Deformations of 3D-Printed Tough Physical Hydrogels with High Response Speed and Large Output Force. <i>Advanced Functional Materials</i> , 2018 , 28, 1803366	15.6	104
5	Spin-coating-assisted fabrication of ultrathin physical hydrogel films with high toughness and fast response. <i>Soft Matter</i> , 2018 , 14, 5888-5897	3.6	24
4	Hydrogen bond reinforced poly(1-vinylimidazole-co-acrylic acid) hydrogels with high toughness, fast self-recovery, and dual pH-responsiveness. <i>Polymer</i> , 2017 , 131, 95-103	3.9	39
3	Metal-Coordination Complexes Mediated Physical Hydrogels with High Toughness, Stick&slip Tearing Behavior, and Good Processability. <i>Macromolecules</i> , 2016 , 49, 9637-9646	5.5	235
2	Molecularly Engineered Zwitterionic Hydrogels with High Toughness and Self-Healing Capacity for Soft Electronics Applications. <i>Chemistry of Materials</i> ,	9.6	18
1	Polymer Pressure-Sensitive Adhesive with A Temperature-Insensitive Loss Factor Operating Under Water and Oil. <i>Advanced Functional Materials</i> , 2104296	15.6	9