## Si Yu Zheng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1245914/publications.pdf Version: 2024-02-01



SI YII ZHENC

#	Article	IF	CITATIONS
1	Metal-Coordination Complexes Mediated Physical Hydrogels with High Toughness, Stick–Slip Tearing Behavior, and Good Processability. Macromolecules, 2016, 49, 9637-9646.	4.8	320
2	Programmed Deformations of 3Dâ€Printed Tough Physical Hydrogels with High Response Speed and Large Output Force. Advanced Functional Materials, 2018, 28, 1803366.	14.9	172
3	Reversibly Transforming a Highly Swollen Polyelectrolyte Hydrogel to an Extremely Tough One and its Application as a Tubular Grasper. Advanced Materials, 2020, 32, e2005171.	21.0	136
4	Molecularly Engineered Zwitterionic Hydrogels with High Toughness and Self-Healing Capacity for Soft Electronics Applications. Chemistry of Materials, 2021, 33, 8418-8429.	6.7	85
5	Engineering Tough Metallosupramolecular Hydrogel Films with Kirigami Structures for Compliant Soft Electronics. Small, 2021, 17, e2103836.	10.0	75
6	Slide-Ring Cross-Links Mediated Tough Metallosupramolecular Hydrogels with Superior Self-Recoverability. Macromolecules, 2019, 52, 6748-6755.	4.8	68
7	Hydrogen bond reinforced poly(1-vinylimidazole-co-acrylic acid) hydrogels with high toughness, fast self-recovery, and dual pH-responsiveness. Polymer, 2017, 131, 95-103.	3.8	65
8	Constitutive behaviors of tough physical hydrogels with dynamic metal-coordinated bonds. Journal of the Mechanics and Physics of Solids, 2020, 139, 103935.	4.8	56
9	Spontaneous and rapid electro-actuated snapping of constrained polyelectrolyte hydrogels. Science Advances, 2022, 8, eabm9608.	10.3	45
10	Spin-coating-assisted fabrication of ultrathin physical hydrogel films with high toughness and fast response. Soft Matter, 2018, 14, 5888-5897.	2.7	37
11	Polyzwitterionic double-network ionogel electrolytes for supercapacitors with cryogenic-effective stability. Chemical Engineering Journal, 2022, 438, 135607.	12.7	37
12	Polymer Pressure‣ensitive Adhesive with A Temperatureâ€Insensitive Loss Factor Operating Under Water and Oil. Advanced Functional Materials, 2021, 31, 2104296.	14.9	34
13	Photodirected Morphing Structures of Nanocomposite Shape Memory Hydrogel with High Stiffness and Toughness. ACS Applied Materials & Interfaces, 2019, 11, 43631-43640.	8.0	32
14	Integrated multifunctional flexible electronics based on tough supramolecular hydrogels with patterned silver nanowires. Journal of Materials Chemistry C, 2020, 8, 7688-7697.	5.5	32
15	Carbon Dot/Poly(methylacrylic acid) Nanocomposite Hydrogels with High Toughness and Strong Fluorescence. ACS Applied Polymer Materials, 2020, 2, 1043-1052.	4.4	25
16	Plastic-Like Supramolecular Hydrogels with Polyelectrolyte/Surfactant Complexes as Physical Cross-links. Macromolecules, 2021, 54, 8052-8066.	4.8	25
17	Cationic peptide-based salt-responsive antibacterial hydrogel dressings for wound healing. International Journal of Biological Macromolecules, 2021, 190, 754-762.	7.5	25
18	Improving the Stability of Green Thermally Activated Delayed Fluorescence OLEDs by Reducing the Excited-State Dipole Moment. Journal of Physical Chemistry C, 2019, 123, 29875-29883.	3.1	22

SI YU ZHENG

#	Article	IF	CITATIONS
19	Fracture of tough and stiff metallosupramolecular hydrogels. Materials Today Physics, 2020, 13, 100202.	6.0	18
20	Programmable Multistable Hydrogel Morphs. Advanced Intelligent Systems, 2019, 1, 1900055.	6.1	14
21	Spatiotemporal self-strengthening hydrogels for oral tissue regeneration. Composites Part B: Engineering, 2022, 243, 110119.	12.0	14
22	Versatile and Simple Strategy for Preparing Bilayer Hydrogels with Janus Characteristics. ACS Applied Materials & Interfaces, 2022, 14, 4579-4587.	8.0	12
23	Programmable Deformations of Biomimetic Composite Hydrogels Embedded with Printed Fibers. ACS Applied Materials & Interfaces, 2020, 12, 57497-57504.	8.0	11
24	Actuators assembled from hydrogel blocks of various shapes via condensation reactions. Materials Chemistry and Physics, 2020, 253, 123332.	4.0	9
25	Zwitterionic Nanocapsules with Salt- and Thermo-Responsiveness for Controlled Encapsulation and Release. ACS Applied Materials & amp; Interfaces, 2021, 13, 47090-47099.	8.0	9
26	Photo-switchable supramolecular comb-like polymer brush based on host–guest recognition for use as antimicrobial smart surface. Journal of Materials Chemistry B, 2022, 10, 3039-3047.	5.8	7
27	Ionic interaction-driven switchable bactericidal surfaces. Acta Biomaterialia, 2022, 142, 124-135.	8.3	6
28	Facile synthesis of tough metallosupramolecular hydrogels by using phosphates as temporary ligands of ferric ions to avoid inhibition of polymerization. Journal of Polymer Science, 2022, 60, 2280-2288.	3.8	4
29	Anisotropic nanocomposite films of hydroxypropylcellulose and graphene oxide with multi-responsiveness. RSC Advances, 2019, 9, 28876-28885.	3.6	3