

Si Yu Zheng

List of Publications by Year in descending order

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29
papers

1,398
citations

430754

18
h-index

477173

29
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29
all docs

29
docs citations

29
times ranked

1388
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Coordination Complexes Mediated Physical Hydrogels with High Toughness, Stick-Slip Tearing Behavior, and Good Processability. <i>Macromolecules</i> , 2016, 49, 9637-9646.	2.2	320
2	Programmed Deformations of 3D-Printed Tough Physical Hydrogels with High Response Speed and Large Output Force. <i>Advanced Functional Materials</i> , 2018, 28, 1803366.	7.8	172
3	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.	11.1	136
4	Molecularly Engineered Zwitterionic Hydrogels with High Toughness and Self-Healing Capacity for Soft Electronics Applications. <i>Chemistry of Materials</i> , 2021, 33, 8418-8429.	3.2	85
5	Engineering Tough Metallosupramolecular Hydrogel Films with Kirigami Structures for Compliant Soft Electronics. <i>Small</i> , 2021, 17, e2103836.	5.2	75
6	Slide-Ring Cross-Links Mediated Tough Metallosupramolecular Hydrogels with Superior Self-Recoverability. <i>Macromolecules</i> , 2019, 52, 6748-6755.	2.2	68
7	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.	1.8	65
8	Constitutive behaviors of tough physical hydrogels with dynamic metal-coordinated bonds. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 139, 103935.	2.3	56
9	Spontaneous and rapid electro-actuated snapping of constrained polyelectrolyte hydrogels. <i>Science Advances</i> , 2022, 8, eabm9608.	4.7	45
10	Spin-coating-assisted fabrication of ultrathin physical hydrogel films with high toughness and fast response. <i>Soft Matter</i> , 2018, 14, 5888-5897.	1.2	37
11	Polyzwitterionic double-network ionogel electrolytes for supercapacitors with cryogenic-effective stability. <i>Chemical Engineering Journal</i> , 2022, 438, 135607.	6.6	37
12	Polymer Pressure-Sensitive Adhesive with A Temperature-Insensitive Loss Factor Operating Under Water and Oil. <i>Advanced Functional Materials</i> , 2021, 31, 2104296.	7.8	34
13	Photodirected Morphing Structures of Nanocomposite Shape Memory Hydrogel with High Stiffness and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43631-43640.	4.0	32
14	Integrated multifunctional flexible electronics based on tough supramolecular hydrogels with patterned silver nanowires. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7688-7697.	2.7	32
15	Carbon Dot/Poly(methylacrylic acid) Nanocomposite Hydrogels with High Toughness and Strong Fluorescence. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1043-1052.	2.0	25
16	Plastic-Like Supramolecular Hydrogels with Polyelectrolyte/Surfactant Complexes as Physical Cross-links. <i>Macromolecules</i> , 2021, 54, 8052-8066.	2.2	25
17	Cationic peptide-based salt-responsive antibacterial hydrogel dressings for wound healing. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 754-762.	3.6	25
18	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.	1.5	22

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19	Fracture of tough and stiff metallosupramolecular hydrogels. <i>Materials Today Physics</i> , 2020, 13, 100202.	2.9	18
20	Programmable Multistable Hydrogel Morphs. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900055.	3.3	14
21	Spatiotemporal self-strengthening hydrogels for oral tissue regeneration. <i>Composites Part B: Engineering</i> , 2022, 243, 110119.	5.9	14
22	Versatile and Simple Strategy for Preparing Bilayer Hydrogels with Janus Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4579-4587.	4.0	12
23	Programmable Deformations of Biomimetic Composite Hydrogels Embedded with Printed Fibers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57497-57504.	4.0	11
24	Actuators assembled from hydrogel blocks of various shapes via condensation reactions. <i>Materials Chemistry and Physics</i> , 2020, 253, 123332.	2.0	9
25	Zwitterionic Nanocapsules with Salt- and Thermo-Responsiveness for Controlled Encapsulation and Release. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47090-47099.	4.0	9
26	Photo-switchable supramolecular comb-like polymer brush based on host-guest recognition for use as antimicrobial smart surface. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3039-3047.	2.9	7
27	Ionic interaction-driven switchable bactericidal surfaces. <i>Acta Biomaterialia</i> , 2022, 142, 124-135.	4.1	6
28	Facile synthesis of tough metallosupramolecular hydrogels by using phosphates as temporary ligands of ferric ions to avoid inhibition of polymerization. <i>Journal of Polymer Science</i> , 2022, 60, 2280-2288.	2.0	4
29	Anisotropic nanocomposite films of hydroxypropylcellulose and graphene oxide with multi-responsiveness. <i>RSC Advances</i> , 2019, 9, 28876-28885.	1.7	3