

Mutian Hua

List of Publications by Year in descending order

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24
papers

2,284
citations

516215

16
h-index

676716

22
g-index

24
all docs

24
docs citations

24
times ranked

2014
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimuli-Responsive Polymers for Soft Robotics. Annual Review of Control, Robotics, and Autonomous Systems, 2022, 5, 515-545.	7.5	21
2	Tuning structural and mechanical anisotropy of PVA hydrogels. Mechanics of Materials, 2022, 172, 104411.	1.7	6
3	4D Printable Tough and Thermoresponsive Hydrogels. ACS Applied Materials & Interfaces, 2021, 13, 12689-12697.	4.0	74
4	Strong tough hydrogels via the synergy of freeze-casting and salting out. Nature, 2021, 590, 594-599.	13.7	625
5	Poly(vinyl alcohol) Hydrogels with Broad-Range Tunable Mechanical Properties via the Hofmeister Effect. Advanced Materials, 2021, 33, e2007829.	11.1	292
6	Rapid and scalable fabrication of ultra-stretchable, anti-freezing conductive gels by cononsolvency effect. EcoMat, 2021, 3, e12085.	6.8	26
7	Swaying gel: chemo-mechanical self-oscillation based on dynamic buckling. Matter, 2021, 4, 1029-1041.	5.0	44
8	Tunable Sponge-Like Hierarchically Porous Hydrogels with Simultaneously Enhanced Diffusivity and Mechanical Properties. Advanced Materials, 2021, 33, e2008235.	11.1	82
9	Tough Hydrogel Reinforced Low-Tortuosity Conductive Networks for Stretchable and High-Performance Supercapacitors. Advanced Materials, 2021, 33, e2100983.	11.1	63
10	Self-Reporting Hydrogel Sensors Based on Surface Instability-Induced Optical Scattering. Advanced Photonics Research, 2021, 2, 2100058.	1.7	1
11	Soft-fiber-reinforced tough and fatigue resistant hydrogels. Matter, 2021, 4, 1755-1757.	5.0	13
12	Tendon-inspired anti-freezing tough gels. IScience, 2021, 24, 102989.	1.9	15
13	Ultrastretchable Polyaniline-Based Conductive Organogel with High Strain Sensitivity. , 2021, 3, 1477-1483.		16
14	Hydrocipher: Bioinspired Dynamic Structural Color-Based Cryptographic Surface. Advanced Optical Materials, 2020, 8, 1901259.	3.6	49
15	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. Science Advances, 2020, 6, .	4.7	124
16	Inorganic Photonic Microspheres with Localized Concentric Ordering for Deep Pattern Encoding and Triple Sensory Microsensor. Small, 2020, 16, e2003638.	5.2	10
17	Superhydrophobic photothermal icephobic surfaces based on candle soot. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11240-11246.	3.3	220
18	Flexible and Transparent High-Dielectric-Constant Polymer Films Based on Molecular Ferroelectric-Modified Poly(Vinyl Alcohol). , 2020, 2, 453-460.		21

#	ARTICLE	IF	CITATIONS
19	Soft phototactic swimmer based on self-sustained hydrogel oscillator. Science Robotics, 2019, 4, .	9.9	258
20	Artificial phototropism for omnidirectional tracking and harvesting of light. Nature Nanotechnology, 2019, 14, 1048-1055.	15.6	191
21	Surfactant-free fabrication of pNIPAAm microgels in microfluidic devices. Journal of Materials Research, 2019, 34, 206-213.	1.2	11
22	Visualizing Morphogenesis through Instability Formation in 4-D Printing. ACS Applied Materials & Interfaces, 2019, 11, 47468-47475.	4.0	20
23	Bioinspired structural color sensors based on responsive soft materials. Current Opinion in Solid State and Materials Science, 2019, 23, 13-27.	5.6	79
24	Changes in GABAergic markers accompany degradation of neuronal function in the primary visual cortex of senescent rats. Scientific Reports, 2017, 7, 14897.	1.6	23