

# Mutian Hua

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4348971/publications.pdf>

Version: 2024-02-01

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	Strong tough hydrogels via the synergy of freeze-casting and salting out. <i>Nature</i> , 2021, 590, 594-599.	13.7	625
2	Poly(vinyl alcohol) Hydrogels with Broad-Range Tunable Mechanical Properties via the Hofmeister Effect. <i>Advanced Materials</i> , 2021, 33, e2007829.	11.1	292
3	Soft phototactic swimmer based on self-sustained hydrogel oscillator. <i>Science Robotics</i> , 2019, 4, .	9.9	258
4	Superhydrophobic photothermal icephobic surfaces based on candle soot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11240-11246.	3.3	220
5	Artificial phototropism for omnidirectional tracking and harvesting of light. <i>Nature Nanotechnology</i> , 2019, 14, 1048-1055.	15.6	191
6	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil. <i>Science Advances</i> , 2020, 6, .	4.7	124
7	Tunable Sponge-Like Hierarchically Porous Hydrogels with Simultaneously Enhanced Diffusivity and Mechanical Properties. <i>Advanced Materials</i> , 2021, 33, e2008235.	11.1	82
8	Bioinspired structural color sensors based on responsive soft materials. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 13-27.	5.6	79
9	4D Printable Tough and Thermoresponsive Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12689-12697.	4.0	74
10	Tough-Hydrogel Reinforced Low-Tortuosity Conductive Networks for Stretchable and High-Performance Supercapacitors. <i>Advanced Materials</i> , 2021, 33, e2100983.	11.1	63
11	Hydrocipher: Bioinspired Dynamic Structural Color-Based Cryptographic Surface. <i>Advanced Optical Materials</i> , 2020, 8, 1901259.	3.6	49
12	Swaying gel: chemo-mechanical self-oscillation based on dynamic buckling. <i>Matter</i> , 2021, 4, 1029-1041.	5.0	44
13	Rapid and scalable fabrication of ultra-stretchable, anti-freezing conductive gels by consolvency effect. <i>EcoMat</i> , 2021, 3, e12085.	6.8	26
14	Changes in GABAergic markers accompany degradation of neuronal function in the primary visual cortex of senescent rats. <i>Scientific Reports</i> , 2017, 7, 14897.	1.6	23
15	Flexible and Transparent High-Dielectric-Constant Polymer Films Based on Molecular Ferroelectric-Modified Poly(Vinyl Alcohol). , 2020, 2, 453-460.		21
16	Stimuli-Responsive Polymers for Soft Robotics. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2022, 5, 515-545.	7.5	21
17	Visualizing Morphogenesis through Instability Formation in 4-D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47468-47475.	4.0	20
18	Ultrastretchable Polyaniline-Based Conductive Organogel with High Strain Sensitivity. , 2021, 3, 1477-1483.		16

#	ARTICLE	IF	CITATIONS
19	Tendon-inspired anti-freezing tough gels. <i>IScience</i> , 2021, 24, 102989.	1.9	15
20	Soft-fiber-reinforced tough and fatigue resistant hydrogels. <i>Matter</i> , 2021, 4, 1755-1757.	5.0	13
21	Surfactant-free fabrication of pNIPAAm microgels in microfluidic devices. <i>Journal of Materials Research</i> , 2019, 34, 206-213.	1.2	11
22	Inorganic Photonic Microspheres with Localized Concentric Ordering for Deep Pattern Encoding and Triple Sensory Microsensor. <i>Small</i> , 2020, 16, e2003638.	5.2	10
23	Tuning structural and mechanical anisotropy of PVA hydrogels. <i>Mechanics of Materials</i> , 2022, 172, 104411.	1.7	6
24	Self-Reporting Hydrogel Sensors Based on Surface Instability-Induced Optical Scattering. <i>Advanced Photonics Research</i> , 2021, 2, 2100058.	1.7	1