

Xinyue Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

4,580
citations

304743

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552781

26
g-index

27
all docs

27
docs citations

27
times ranked

5108
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered Living Hydrogels. <i>Advanced Materials</i> , 2022, 34, e2201326.	21.0	75
2	Magnetic Living Hydrogels for Intestinal Localization, Retention, and Diagnosis. <i>Advanced Functional Materials</i> , 2021, 31, 2010918.	14.9	77
3	Hydrogel-based biocontainment of bacteria for continuous sensing and computation. <i>Nature Chemical Biology</i> , 2021, 17, 724-731.	8.0	110
4	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , 2021, 121, 4309-4372.	47.7	472
5	Stretchable Anti-Fogging Tapes for Diverse Transparent Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2103551.	14.9	25
6	Strong fatigue-resistant nanofibrous hydrogels inspired by lobster underbelly. <i>Matter</i> , 2021, 4, 1919-1934.	10.0	56
7	Fatigue-resistant adhesion of hydrogels. <i>Nature Communications</i> , 2020, 11, 1071.	12.8	187
8	Hydrogel machines. <i>Materials Today</i> , 2020, 36, 102-124.	14.2	625
9	Ingestible hydrogel device. <i>Nature Communications</i> , 2019, 10, 493.	12.8	168
10	Anti-fatigue-fracture hydrogels. <i>Science Advances</i> , 2019, 5, eaau8528.	10.3	305
11	Muscle-like fatigue-resistant hydrogels by mechanical training. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10244-10249.	7.1	318
12	Multifunctional "Hydrogel Skins" on Diverse Polymers with Arbitrary Shapes. <i>Advanced Materials</i> , 2019, 31, e1807101.	21.0	258
13	3D Printing of Living Responsive Materials and Devices. <i>Advanced Materials</i> , 2018, 30, 1704821.	21.0	277
14	Stretchable living materials and devices with hydrogel-elastomer hybrids hosting programmed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2200-2205.	7.1	212
15	A sugar-template manufacturing method for microsystem ion-exchange membranes. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 075011.	2.6	4
16	Impermeable Robust Hydrogels via Hybrid Lamination. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700520.	7.6	58
17	Dynamic Covalent Bond-Assisted Anchor of PEG Brushes on Cationic Surfaces with Antibacterial and Antithrombotic Dual Capabilities. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500473.	3.7	18
18	Highly Stretchable, Strain Sensing Hydrogel Optical Fibers. <i>Advanced Materials</i> , 2016, 28, 10244-10249.	21.0	327

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19	Skin-inspired hydrogel- <i>elastomer</i> hybrids with robust interfaces and functional microstructures. <i>Nature Communications</i> , 2016, 7, 12028.	12.8	696
20	Switching biological functionalities of biointerfaces via dynamic covalent bonds. <i>Journal of Materials Chemistry B</i> , 2016, 4, 694-703.	5.8	21
21	Versatile and Rapid Postfunctionalization from Cyclodextrin Modified Host Polymeric Membrane Substrate. <i>Langmuir</i> , 2015, 31, 9665-9674.	3.5	53
22	Catechol Chemistry Inspired Approach to Construct Self-Cross-Linked Polymer Nanolayers as Versatile Biointerfaces. <i>Langmuir</i> , 2014, 30, 14905-14915.	3.5	54
23	Light-Triggered Switching of Reversible and Alterable Biofunctionality via β -Cyclodextrin/Azobenzene-Based Host-Guest Interaction. <i>ACS Macro Letters</i> , 2014, 3, 1130-1133.	4.8	70
24	Heparin-Mimicking Multilayer Coating on Polymeric Membrane via LbL Assembly of Cyclodextrin-Based Supramolecules. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21603-21614.	8.0	75