

Tianqi Liu

List of Publications by Year in descending order

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16
papers

1,187
citations

687363

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940533

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docs citations

16
times ranked

1728
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(vinyl alcohol)â€™Tannic Acid Hydrogels with Excellent Mechanical Properties and Shape Memory Behaviors. ACS Applied Materials & Interfaces, 2016, 8, 27199-27206.	8.0	361
2	Super-strong and tough poly(vinyl alcohol)/poly(acrylic acid) hydrogels reinforced by hydrogen bonding. Journal of Materials Chemistry B, 2018, 6, 8105-8114.	5.8	162
3	Facile preparation of hydrogen-bonded supramolecular polyvinyl alcohol-glycerol gels with excellent thermoplasticity and mechanical properties. Polymer, 2017, 111, 168-176.	3.8	153
4	Surface Patterning of Hydrogels for Programmable and Complex Shape Deformations by Ion Inkjet Printing. Advanced Functional Materials, 2017, 27, 1701962.	14.9	122
5	Complex shape deformations of homogeneous poly(N-isopropylacrylamide)/graphene oxide hydrogels programmed by local NIR irradiation. Journal of Materials Chemistry B, 2017, 5, 7997-8003.	5.8	59
6	Rigid and Strong Thermoresponsive Shape Memory Hydrogels Transformed from Poly(vinylpyrrolidone-co-acryloxy acetophenone) Organogels. ACS Applied Materials & Interfaces, 2018, 10, 32707-32716.	8.0	54
7	Hydrogenâ€™Bonded Polymerâ€™Small Molecule Complexes with Tunable Mechanical Properties. Macromolecular Rapid Communications, 2018, 39, e1800050.	3.9	53
8	Biomimetic anisotropic poly(vinyl alcohol) hydrogels with significantly enhanced mechanical properties by freezingâ€™thawing under drawing. Journal of Materials Chemistry B, 2019, 7, 3243-3249.	5.8	52
9	Mechanically Strong, Tough, and Shape Deformable Poly(acrylamide-co-vinylimidazole) Hydrogels Based on Cu ²⁺ Complexation. ACS Applied Materials & Interfaces, 2020, 12, 44205-44214.	8.0	44
10	Thermoresponsive Deformable Actuators Prepared by Local Electrochemical Reduction of Poly(N-isopropylacrylamide)/Graphene Oxide Hydrogels. ACS Applied Nano Materials, 2018, 1, 1522-1530.	5.0	39
11	Strong adhesion of poly(vinyl alcohol)â€™glycerol hydrogels onto metal substrates for marine antifouling applications. Soft Matter, 2020, 16, 709-717.	2.7	25
12	Solid-phase esterification between poly(vinyl alcohol) and malonic acid and its function in toughening hydrogels. Polymer Chemistry, 2020, 11, 4787-4797.	3.9	20
13	Strong adhesion of hydrogels by polyelectrolyte adhesives. Polymer, 2020, 206, 122845.	3.8	19
14	Tough, Stimuliâ€™Responsive, and Biocompatible Hydrogels with Very High Water Content. Macromolecular Rapid Communications, 2018, 39, e1800474.	3.9	10
15	Dramatically enhancing mechanical properties of hydrogels by drying reactive polymers at elevated temperatures to introduce strong physical and chemical crosslinks. Polymer, 2022, 249, 124842.	3.8	9
16	Nanostructured biogel templated synthesis of Fe ₃ O ₄ nanoparticles and its application for catalytic degradation of xylenol orange. RSC Advances, 2017, 7, 758-763.	3.6	5