Jianyu Li

List of Publications by Year in Descending Order

35 papers	4,455 citations	19 h-index	37 g-index
37 ext. papers	5,645 ext. citations	11.5 avg, IF	6.43 L-index

#	Paper	IF	Citations
35	Blood clot behaves as a poro-visco-elastic material.. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 128, 105101	4.1	3
34	Enhanced tendon healing by a tough hydrogel with an adhesive side and high drug-loading capacity.. *Nature Biomedical Engineering*, **2022**,	19	11
33	Injectable, Pore-Forming, Perfusable Double-Network Hydrogels Resilient to Extreme Biomechanical Stimulations. *Advanced Science*, **2021**, e2102627	13.6	7
32	Reconfiguring confined magnetic colloids with tunable fluid transport behavior. *National Science Review*, **2021**, 8, nwaa301	10.8	12
31	Bioinspired tough gel sheath for robust and versatile surface functionalization. *Science Advances*, **2021**, 7,	14.3	17
30	Multifaceted Design and Emerging Applications of Tissue Adhesives. *Advanced Materials*, **2021**, 33, e2007663	24	26
29	Tissue adhesion with tough hydrogels: Experiments and modeling. *Mechanics of Materials*, **2021**, 157, 103800	3.3	4
28	Stimulation Modulates Adhesion and Mechanics of Hydrogel Adhesives. *Langmuir*, **2021**, 37, 7097-7106	4	4
27	Ionotronic Tough Adhesives with Intrinsic Multifunctionality. *ACS Applied Materials & Interfaces* , **2021**, 13, 37849-37861	9.5	4
26	An Anti-Freezing, Ambient-Stable and Highly Stretchable Ionic Skin with Strong Surface Adhesion for Wearable Sensing and Soft Robotics. *Advanced Functional Materials*, **2021**, 31, 2104665	15.6	35
25	Fracture mechanics of blood clots: Measurements of toughness and critical length scales. *Extreme Mechanics Letters*, **2021**, 48, 101444	3.9	5
24	Chitosan nanocrystals synthesis via aging and application towards alginate hydrogels for sustainable drug release. *Green Chemistry*, **2021**, 23, 6527-6537	10	5
23	Scaling Behavior of Fracture Properties of Tough Adhesive Hydrogels.. *ACS Macro Letters*, **2021**, 10, 180-185	6.6	6
22	An ambient-stable and stretchable ionic skin with multimodal sensation. *Materials Horizons*, **2020**, 7, 477-488	14.4	55
21	Interfacial fatigue fracture of tissue adhesive hydrogels. *Extreme Mechanics Letters*, **2020**, 34, 100601	3.9	15
20	Triggered micropore-forming bioprinting of porous viscoelastic hydrogels. *Materials Horizons*, **2020**, 7, 2336-2347	14.4	25
19	Creating a Comprehensive Research Platform for Surgical Technique and Operative Outcome in Primary Brain Tumor Neurosurgery. *World Neurosurgery*, **2020**, 144, e62-e71	2.1	5

18	Design Molecular Topology for Wet-Dry Adhesion. *ACS Applied Materials & Interfaces*, **2019**, 11, 24802-24811	9.5	34
17	Bioinspired mechanically active adhesive dressings to accelerate wound closure. *Science Advances*, **2019**, 5, eaaw3963	14.3	189
16	Dynamic air/liquid pockets for guiding microscale flow. *Nature Communications*, **2018**, 9, 733	17.4	40
15	Tough Composite Hydrogels with High Loading and Local Release of Biological Drugs. *Advanced Healthcare Materials*, **2018**, 7, e1701393	10.1	37
14	Tough adhesives for diverse wet surfaces. *Science*, **2017**, 357, 378-381	33.3	676
13	Fatigue fracture of hydrogels. *Extreme Mechanics Letters*, **2017**, 10, 24-31	3.9	100
12	Designing hydrogels for controlled drug delivery. *Nature Reviews Materials*, **2016**, 1,	73.3	1741
11	Adhesion between highly stretchable materials. *Soft Matter*, **2016**, 12, 1093-9	3.6	73
10	Click-Crosslinked Injectable Gelatin Hydrogels. *Advanced Healthcare Materials*, **2016**, 5, 541-7	10.1	92
9	A model of ideal elastomeric gels for polyelectrolyte gels. *Soft Matter*, **2014**, 10, 2582-90	3.6	60
8	Stiff, strong, and tough hydrogels with good chemical stability. *Journal of Materials Chemistry B*, **2014**, 2, 6708-6713	7.3	230
7	Mechanical behavior of poly(methyl methacrylate)-based ionogels. *Soft Matter*, **2014**, 10, 7993-8000	3.6	17
6	Hybrid Hydrogels with Extremely High Stiffness and Toughness.. *ACS Macro Letters*, **2014**, 3, 520-523	6.6	291
5	Mussel-inspired polydopamine: a biocompatible and ultrastable coating for nanoparticles in vivo. *ACS Nano*, **2013**, 7, 9384-95	16.7	428
4	Experimental determination of equations of state for ideal elastomeric gels. *Soft Matter*, **2012**, 8, 8121	3.6	69
3	Nanoscale fast relaxation events in polyethylene. *Scripta Materialia*, **2010**, 62, 488-491	5.6	10
2	Rheological Properties of Aqueous Suspensions of Chitin Crystallites. *Journal of Colloid and Interface Science*, **1996**, 183, 365-73	9.3	104
1	Hemostatic biomaterials to halt non-compressible hemorrhage. *Journal of Materials Chemistry B*,	7.3	4