

Ruobing Bai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25 papers	1,496 citations	14 h-index	25 g-index
25 ext. papers	1,973 ext. citations	9 avg, IF	5.55 L-index

#	Paper	IF	Citations
25	Highly Stretchable and Tough Hydrogels below Water Freezing Temperature. <i>Advanced Materials</i> , 2018 , 30, e1801541	24	267
24	Hydrogel Adhesion: A Supramolecular Synergy of Chemistry, Topology, and Mechanics. <i>Advanced Functional Materials</i> , 2020 , 30, 1901693	15.6	255
23	Topological Adhesion of Wet Materials. <i>Advanced Materials</i> , 2018 , 30, e1800671	24	173
22	Bioinspired Hydrogel Interferometer for Adaptive Coloration and Chemical Sensing. <i>Advanced Materials</i> , 2018 , 30, e1800468	24	149
21	Fatigue fracture of tough hydrogels. <i>Extreme Mechanics Letters</i> , 2017 , 15, 91-96	3.9	136
20	Fatigue of hydrogels. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 74, 337-370	3.7	104
19	Fatigue Fracture of Self-Recovery Hydrogels. <i>ACS Macro Letters</i> , 2018 , 7, 312-317	6.6	79
18	Fatigue fracture of nearly elastic hydrogels. <i>Soft Matter</i> , 2018 , 14, 3563-3571	3.6	67
17	Hydrogel Interferometry for Ultrasensitive and Highly Selective Chemical Detection. <i>Advanced Materials</i> , 2018 , 30, e1804916	24	64
16	Design Molecular Topology for Wet-Dry Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24802-24811	9.5	24811
15	Flaw-Insensitive Hydrogels under Static and Cyclic Loads. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800883	4.8	27
14	Stress fields in hollow core-shell spherical electrodes of lithium ion batteries. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140299	2.4	21
13	Tearing a hydrogel of complex rheology. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 125, 749-761	5.1	19
12	Swaying gel: chemo-mechanical self-oscillation based on dynamic buckling. <i>Matter</i> , 2021 , 4, 1029-1041	12.7	17
11	Molecular Staples for Tough and Stretchable Adhesion in Integrated Soft Materials. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900810	10.1	13
10	Photomechanical coupling in photoactive nematic elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 144, 104115	5	12
9	Topological adhesion II. Stretchable adhesion. <i>Extreme Mechanics Letters</i> , 2020 , 40, 100891	3.9	11

8	A Phenomenological Model for Shakedown of Tough Hydrogels Under Cyclic Loads. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	8
7	Optomechanics of Soft Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	7
6	Localized Deformation in Plastic Liquids on Elastomers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017 , 84,	2.7	5
5	Hydrogels: Hydrogel Interferometry for Ultrasensitive and Highly Selective Chemical Detection (Adv. Mater. 46/2018). <i>Advanced Materials</i> , 2018 , 30, 1870352	24	3
4	Collective behavior in the kinetics and equilibrium of solid-state photoreaction. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101160	3.9	2
3	Fatigue of amorphous hydrogels with dynamic covalent bonds. <i>Extreme Mechanics Letters</i> , 2022 , 53, 101679	3.9	2
2	Photochemical-induced phase transitions in photoactive semicrystalline polymers. <i>Physical Review E</i> , 2021 , 103, 033003	2.4	1
1	Temperature-modulated photomechanical actuation of photoactive liquid crystal elastomers. <i>Extreme Mechanics Letters</i> , 2022 , 51, 101614	3.9	0