Ruobing Bai

List of Publications by Year in Descending Order

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

#	Paper Paper	IF	Citations
25	Temperature-modulated photomechanical actuation of photoactive liquid crystal elastomers. <i>Extreme Mechanics Letters</i> , 2022 , 51, 101614	3.9	O
24	Fatigue of amorphous hydrogels with dynamic covalent bonds. <i>Extreme Mechanics Letters</i> , 2022 , 53, 10	16.79	2
23	Photochemical-induced phase transitions in photoactive semicrystalline polymers. <i>Physical Review E</i> , 2021 , 103, 033003	2.4	1
22	Swaying gel: chemo-mechanical self-oscillation based on dynamic buckling. <i>Matter</i> , 2021 , 4, 1029-1041	12.7	17
21	Collective behavior in the kinetics and equilibrium of solid-state photoreaction. <i>Extreme Mechanics Letters</i> , 2021 , 43, 101160	3.9	2
20	Topological adhesion II. Stretchable adhesion. Extreme Mechanics Letters, 2020, 40, 100891	3.9	11
19	Photomechanical coupling in photoactive nematic elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 144, 104115	5	12
18	Hydrogel Adhesion: A Supramolecular Synergy of Chemistry, Topology, and Mechanics. <i>Advanced Functional Materials</i> , 2020 , 30, 1901693	15.6	255
17	Tearing a hydrogel of complex rheology. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 125, 749-7	'651	19
16	Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Materials & Design Molecular Topology for Wet-Dry Adhesion. ACS Applied Molecular Topology for Wet-	3 0 2 5 24	8 1 4
15	Flaw-Insensitive Hydrogels under Static and Cyclic Loads. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800883	4.8	27
14	Molecular Staples for Tough and Stretchable Adhesion in Integrated Soft Materials. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900810	10.1	13
13	Fatigue of hydrogels. European Journal of Mechanics, A/Solids, 2019, 74, 337-370	3.7	104
12	Fatigue fracture of nearly elastic hydrogels. Soft Matter, 2018, 14, 3563-3571	3.6	67
11	Bioinspired Hydrogel Interferometer for Adaptive Coloration and Chemical Sensing. <i>Advanced Materials</i> , 2018 , 30, e1800468	24	149
10	Fatigue Fracture of Self-Recovery Hydrogels. ACS Macro Letters, 2018, 7, 312-317	6.6	79
9	Topological Adhesion of Wet Materials. <i>Advanced Materials</i> , 2018 , 30, e1800671	24	173

LIST OF PUBLICATIONS

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	Highly Stretchable and Tough Hydrogels below Water Freezing Temperature. <i>Advanced Materials</i> , 2018 , 30, e1801541	24	267	
6	Hydrogels: Hydrogel Interferometry for Ultrasensitive and Highly Selective Chemical Detection (Adv. Mater. 46/2018). <i>Advanced Materials</i> , 2018 , 30, 1870352	24	3	
5	Hydrogel Interferometry for Ultrasensitive and Highly Selective Chemical Detection. <i>Advanced Materials</i> , 2018 , 30, e1804916	24	64	
4	Fatigue fracture of tough hydrogels. Extreme Mechanics Letters, 2017, 15, 91-96	3.9	136	
3	Localized Deformation in Plastic Liquids on Elastomers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017 , 84,	2.7	5	
2	Optomechanics of Soft Materials. Journal of Applied Mechanics, Transactions ASME, 2015, 82,	2.7	7	
1	Stress fields in hollow coreBhell 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	