

# Jiawei Yang

## 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.

22  
papers

1,578  
citations

13  
h-index

22  
g-index

22  
ext. papers

2,093  
ext. citations

8.7  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
22	Tough adhesives for diverse wet surfaces. <i>Science</i> , <b>2017</b> , 357, 378-381	33.3	676
21	Hydrogel Adhesion: A Supramolecular Synergy of Chemistry, Topology, and Mechanics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1901693	15.6	255
20	Topological Adhesion of Wet Materials. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800671	24	173
19	Fatigue of hydrogels. <i>European Journal of Mechanics, A/Solids</i> , <b>2019</b> , 74, 337-370	3.7	104
18	Fatigue Fracture of Self-Recovery Hydrogels. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 312-317	6.6	79
17	Design Molecular Topology for Wet-Dry Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24802-24814	9.5	248
16	Covalent Topological Adhesion. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 754-758	6.6	40
15	Instant, Tough, Noncovalent Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40749-40757	9.5	34
14	Flaw-Insensitive Hydrogels under Static and Cyclic Loads. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800883	4.8	27
13	Tearing a hydrogel of complex rheology. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 125, 749-761	5.1	19
12	Topological adhesion. I. Rapid and strong topohesives. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 39, 100803	3.9	19
11	Effects of Stiff Film Pattern Geometry on Surface Buckling Instabilities of Elastic Bilayers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23406-23413	9.5	17
10	Formation of high aspect ratio wrinkles and ridges on elastic bilayers with small thickness contrast. <i>Soft Matter</i> , <b>2018</b> , 14, 8545-8551	3.6	17
9	Molecular Staples for Tough and Stretchable Adhesion in Integrated Soft Materials. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900810	10.1	13
8	Topological adhesion II. Stretchable adhesion. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 40, 100891	3.9	11
7	Pattern formation in plastic liquid films on elastomers by ratcheting. <i>Soft Matter</i> , <b>2016</b> , 12, 3820-7	3.6	8
6	Hydrolytic crack in a rubbery network. <i>Extreme Mechanics Letters</i> , <b>2019</b> , 31, 100531	3.9	7

- 5 Chemical Tuning of Fibers Drawn from Extensible Hyaluronic Acid Networks. *Journal of the American Chemical Society*, **2020**, 142, 19715-19721 16.4 7
- 4 Plasticity retards the formation of creases. *Journal of the Mechanics and Physics of Solids*, **2019**, 123, 305-314 7
- 3 Polymer-filled macroporous hydrogel for low friction. *Extreme Mechanics Letters*, **2020**, 38, 100742 3.9 5
- 2 Gelation kinetics of alginate chains through covalent bonds. *Extreme Mechanics Letters*, **2020**, 40, 100898, 9 3
- 1 Degradable Plastics are Vulnerable to Cracks. *Engineering*, **2021**, 9.7 3