Canhui Yang

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.

32 papers	2,724 citations	19 h-index	37 g-index
37 ext. papers	3,455 ext. citations	11 avg, IF	5.93 L-index

#	Paper	IF	Citations
32	Tough porous nanocomposite hydrogel for water treatment. *Journal of Hazardous Materials*, **2022**, 421, 126754	12.8	5
31	Highly stable flexible pressure sensors with a quasi-homogeneous composition and interlinked interfaces.. *Nature Communications*, **2022**, 13, 1317	17.4	19
30	Fatigue of amorphous hydrogels with dynamic covalent bonds. *Extreme Mechanics Letters*, **2022**, 53, 101679	3.9	2
29	Fatigue Damage-Resistant Physical Hydrogel Adhesion. *Frontiers in Robotics and AI*, **2021**, 8, 666343	2.8	2
28	Direct-ink-write printing of hydrogels using dilute inks. *IScience*, **2021**, 24, 102319	6.1	4
27	Biomimetic Hydrophilic Islands for Integrating Elastomers and Hydrogels of Regulable Curved Profiles. *ACS Applied Electronic Materials*, **2021**, 3, 668-675	4	7
26	Switchable adhesion between hydrogels by wrinkling. *Extreme Mechanics Letters*, **2021**, 43, 101193	3.9	15
25	Enhance the debonding resistance of hydrogel by large-scale bridging. *Journal of the Mechanics and Physics of Solids*, **2021**, 155, 104570	5	3
24	Dual-primer adhesion of polymer networks of dissimilar chemistries. *Extreme Mechanics Letters*, **2020**, 38, 100756	3.9	7
23	Topological prime. *Science China Technological Sciences*, **2020**, 63, 1314-1322	3.5	5
22	Fracture of tough and stiff metallosupramolecular hydrogels. *Materials Today Physics*, **2020**, 13, 100202	8	9
21	Electric field concentration in hydrogel–elastomer devices. *Extreme Mechanics Letters*, **2020**, 34, 100597	3.9	4
20	Ionotronic Luminescent Fibers, Fabrics, and Other Configurations. *Advanced Materials*, **2020**, 32, e2005545	14	31
19	Stretchable and fatigue-resistant materials. *Materials Today*, **2020**, 34, 7-16	21.8	78
18	Polyacrylamide hydrogels. II. elastic dissipater. *Journal of the Mechanics and Physics of Solids*, **2019**, 133, 103737	5	40
17	Polyacrylamide hydrogels. I. Network imperfection. *Journal of the Mechanics and Physics of Solids*, **2019**, 131, 43-55	5	64
16	Design Molecular Topology for Wet-Dry Adhesion. *ACS Applied Materials & Interfaces*, **2019**, 11, 24802–24811	9.5	34

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15	Hydrogel Paint. *Advanced Materials*, **2019**, 31, e1903062	24	64
14	Stick-On Large-Strain Sensors for Soft Robots. *Advanced Materials Interfaces*, **2019**, 6, 1900985	4.6	48
13	Hydrogels: Hydrogel Paint (Adv. Mater. 39/2019). *Advanced Materials*, **2019**, 31, 1970276	24	2
12	A Soft Stretchable Sensor: Towards Peripheral Nerve Signal Sensing. *MRS Advances*, **2018**, 3, 1597-1602	0.7	4
11	Bonding dissimilar polymer networks in various manufacturing processes. *Nature Communications*, **2018**, 9, 846	17.4	136
10	Fatigue Fracture of Self-Recovery Hydrogels. *ACS Macro Letters*, **2018**, 7, 312-317	6.6	79
9	Hydrogel ionotronics. *Nature Reviews Materials*, **2018**, 3, 125-142	73.3	643
8	3D Printing of Transparent and Conductive Heterogeneous Hydrogel-Elastomer Systems. *Advanced Materials*, **2017**, 29, 1604827	24	280
7	Organic liquid-crystal devices based on ionic conductors. *Materials Horizons*, **2017**, 4, 1102-1109	14.4	56
6	Electroluminescence of Giant Stretchability. *Advanced Materials*, **2016**, 28, 4480-4	24	183
5	Tough photoluminescent hydrogels doped with lanthanide. *Macromolecular Rapid Communications*, **2015**, 36, 465-71	4.8	56
4	Exceptionally tough and notch-insensitive magnetic hydrogels. *Soft Matter*, **2015**, 11, 8253-61	3.6	68
3	Ionic cable. *Extreme Mechanics Letters*, **2015**, 3, 59-65	3.9	148
2	Highly stretchable and transparent ionogels as nonvolatile conductors for dielectric elastomer transducers. *ACS Applied Materials & Interfaces*, **2014**, 6, 7840-5	9.5	192
1	Strengthening alginate/polyacrylamide hydrogels using various multivalent cations. *ACS Applied Materials & Interfaces*, **2013**, 5, 10418-22	9.5	401