# Canhui Yang

## List of Publications by Citations



| | | | |
|---|---|---|---|
| 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 | Hydrogel ionotronics. *Nature Reviews Materials*, **2018**, 3, 125-142 | 73.3 | 643 |
| 31 | Strengthening alginate/polyacrylamide hydrogels using various multivalent cations. *ACS Applied Materials & Interfaces*, **2013**, 5, 10418-22 | 9.5 | 401 |
| 30 | 3D Printing of Transparent and Conductive Heterogeneous Hydrogel-Elastomer Systems. *Advanced Materials*, **2017**, 29, 1604827 | 24 | 280 |
| 29 | Highly stretchable and transparent ionogels as nonvolatile conductors for dielectric elastomer transducers. *ACS Applied Materials & Interfaces*, **2014**, 6, 7840-5 | 9.5 | 192 |
| 28 | Electroluminescence of Giant Stretchability. *Advanced Materials*, **2016**, 28, 4480-4 | 24 | 183 |
| 27 | Ionic cable. *Extreme Mechanics Letters*, **2015**, 3, 59-65 | 3.9 | 148 |
| 26 | Bonding dissimilar polymer networks in various manufacturing processes. *Nature Communications*, **2018**, 9, 846 | 17.4 | 136 |
| 25 | Fatigue Fracture of Self-Recovery Hydrogels. *ACS Macro Letters*, **2018**, 7, 312-317 | 6.6 | 79 |
| 24 | Stretchable and fatigue-resistant materials. *Materials Today*, **2020**, 34, 7-16 | 21.8 | 78 |
| 23 | Exceptionally tough and notch-insensitive magnetic hydrogels. *Soft Matter*, **2015**, 11, 8253-61 | 3.6 | 68 |
| 22 | Polyacrylamide hydrogels. I. Network imperfection. *Journal of the Mechanics and Physics of Solids*, **2019**, 131, 43-55 | 5 | 64 |
| 21 | Hydrogel Paint. *Advanced Materials*, **2019**, 31, e1903062 | 24 | 64 |
| 20 | Tough photoluminescent hydrogels doped with lanthanide. *Macromolecular Rapid Communications*, **2015**, 36, 465-71 | 4.8 | 56 |
| 19 | Organic liquid-crystal devices based on ionic conductors. *Materials Horizons*, **2017**, 4, 1102-1109 | 14.4 | 56 |
| 18 | Design Molecular Topology for Wet-Dry Adhesion. *ACS Applied Materials & Interfaces*, **2019**, 11, 24802-24811 | 9.5 | 54 |
| 17 | Stick-On Large-Strain Sensors for Soft Robots. *Advanced Materials Interfaces*, **2019**, 6, 1900985 | 4.6 | 48 |
| 16 | Polyacrylamide hydrogels. II. elastic dissipater. *Journal of the Mechanics and Physics of Solids*, **2019**, 133, 103737 | 5 | 40 |

# List of Publications

| | | | |
|---|---|---|---|
| 15 | Ionotronic Luminescent Fibers, Fabrics, and Other Configurations. *Advanced Materials*, **2020**, 32, e2005545 | 14 | 31 |
| 14 | Highly stable flexible pressure sensors with a quasi-homogeneous composition and interlinked interfaces.. *Nature Communications*, **2022**, 13, 1317 | 17.4 | 19 |
| 13 | Switchable adhesion between hydrogels by wrinkling. *Extreme Mechanics Letters*, **2021**, 43, 101193 | 3.9 | 15 |
| 12 | Fracture of tough and stiff metallosupramolecular hydrogels. *Materials Today Physics*, **2020**, 13, 100202 | 8 | 9 |
| 11 | Dual-primer adhesion of polymer networks of dissimilar chemistries. *Extreme Mechanics Letters*, **2020**, 38, 100756 | 3.9 | 7 |
| 10 | Biomimetic Hydrophilic Islands for Integrating Elastomers and Hydrogels of Regulable Curved Profiles. *ACS Applied Electronic Materials*, **2021**, 3, 668-675 | 4 | 7 |
| 9 | Topological prime. *Science China Technological Sciences*, **2020**, 63, 1314-1322 | 3.5 | 5 |
| 8 | Tough porous nanocomposite hydrogel for water treatment. *Journal of Hazardous Materials*, **2022**, 421, 126754 | 12.8 | 5 |
| 7 | A Soft Stretchable Sensor: Towards Peripheral Nerve Signal Sensing. *MRS Advances*, **2018**, 3, 1597-1602 | 0.7 | 4 |
| 6 | Electric field concentration in hydrogel–elastomer devices. *Extreme Mechanics Letters*, **2020**, 34, 100597 | 3.9 | 4 |
| 5 | Direct-ink-write printing of hydrogels using dilute inks. *IScience*, **2021**, 24, 102319 | 6.1 | 4 |
| 4 | Enhance the debonding resistance of hydrogel by large-scale bridging. *Journal of the Mechanics and Physics of Solids*, **2021**, 155, 104570 | 5 | 3 |
| 3 | Hydrogels: Hydrogel Paint (Adv. Mater. 39/2019). *Advanced Materials*, **2019**, 31, 1970276 | 24 | 2 |
| 2 | Fatigue Damage-Resistant Physical Hydrogel Adhesion. *Frontiers in Robotics and AI*, **2021**, 8, 666343 | 2.8 | 2 |
| 1 | Fatigue of amorphous hydrogels with dynamic covalent bonds. *Extreme Mechanics Letters*, **2022**, 53, 101679 | 3.9 | 2 |