Huanjun Li

List of Publications by Year
in descending order

31 papers	1,071 citations	430874 18 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	1622 citing authors

#	Article	IF	Citations
1	Complex multiphase organohydrogels with programmable mechanics toward adaptive soft-matter machines. Science Advances, 2020, 6, eaax1464.	10.3	139
2	Bio-inspired layered chitosan/graphene oxide nanocomposite hydrogels with high strength and pH-driven shape memory effect. Carbohydrate Polymers, 2017, 177, 116-125.	10.2	95
3	Tough and electro-responsive hydrogel actuators with bidirectional bending behavior. Nanoscale, 2019, 11, 2231-2237.	5.6	91
4	Graphene oxide based moisture-responsive biomimetic film actuators with nacre-like layered structures. Journal of Materials Chemistry A, 2017, 5, 14604-14610.	10.3	69
5	Highly Stretchable Room-Temperature Self-Healing Conductors Based on Wrinkled Graphene Films for Flexible Electronics. ACS Applied Materials & Interfaces, 2019, 11, 10736-10744.	8.0	62
6	Nanocomposite hydrogels with high strength cross-linked by titania. RSC Advances, 2013, 3, 7233.	3.6	61
7	Bioinspired nonswellable ultrastrong nanocomposite hydrogels with long-term underwater superoleophobic behavior. Chemical Engineering Journal, 2019, 375, 122047.	12.7	48
8	A self-healable and tough nanocomposite hydrogel crosslinked by novel ultrasmall aluminum hydroxide nanoparticles. Nanoscale, 2017, 9, 15470-15476.	5.6	46
9	High strength nanocomposite hydrogel bilayer with bidirectional bending and shape switching behaviors for soft actuators. RSC Advances, 2015, 5, 13167-13170.	3.6	44
10	Thermal and water dual-responsive shape memory poly(vinyl alcohol)/Al₂O₃ nanocomposite. RSC Advances, 2015, 5, 91213-91217.	3.6	43
11	Naturally Dried Graphene-Based Nanocomposite Aerogels with Exceptional Elasticity and High Electrical Conductivity. ACS Applied Materials & Interfaces, 2018, 10, 21565-21572.	8.0	36
12	Dual selective sensor for exosomes in serum using magnetic imprinted polymer isolation sandwiched with aptamer/graphene oxide based FRET fluorescent ignition. Biosensors and Bioelectronics, 2022, 207, 114112.	10.1	32
13	Water-Evaporation-Powered Fast Actuators with Multimodal Motion Based on Robust Nacre-Mimetic Composite Film. ACS Applied Materials & Interfaces, 2019, 11, 12890-12897.	8.0	29
14	Tough Adhesion of Freezing- and Drying-Tolerant Transparent Nanocomposite Organohydrogels. ACS Applied Materials & Interfaces, 2021, 13, 21822-21830.	8.0	25
15	Tough biomimetic films for harnessing natural evaporation for various self-powered devices. Journal of Materials Chemistry A, 2020, 8, 19269-19277.	10.3	24
16	Large-area superelastic graphene aerogels based on a room-temperature reduction self-assembly strategy for sensing and particulate matter (PM_{2.5} and PM₁₀) capture. Nanoscale, 2019, 11, 10372-10380.	5.6	22
17	Strong Wet Adhesion of Tough Transparent Nanocomposite Hydrogels for Fast Tunable Focus Lenses. ACS Applied Materials & Interfaces, 2019, 11, 15071-15078.	8.0	22
18	Thermosensitive antibacterial Ag nanocomposite hydrogels made by a one-step green synthesis strategy. New Journal of Chemistry, 2016, 40, 6650-6657.	2.8	19

#	Article	IF	Citations
19	Hierarchically crosslinked ionic nanocomposite hydrogels with ultrahigh mechanical properties for underwater bioinspired capturing device. Composites Science and Technology, 2018, 165, 339-346.	7.8	19
20	Self-healing elastomer assembly towards three-dimensional shape memory devices. RSC Advances, 2015, 5, 70000-70004.	3.6	16
21	Fe₃O₄-decorated single-walled carbon nanohorns with extraordinary microwave absorption property. RSC Advances, 2015, 5, 75817-75822.	3.6	16
22	Multiple shape memory polymers for self-deployable device. RSC Advances, 2016, 6, 50581-50586.	3.6	15
23	Tough, self-healable and conductive elastomers based on freezing-thawing strategy. Chemical Engineering Journal, 2020, 402, 125421.	12.7	15
24	Room-temperature self-healing elastomer-graphene composite conducting wires with superior strength for stretchable electronics. Composites Science and Technology, 2022, 219, 109261.	7.8	15
25	Bioinspired Poly(vinyl alcohol) Film Actuator Powered by Water Evaporation under Ambient Conditions. Macromolecular Materials and Engineering, 2020, 305, 2000145.	3.6	13
26	High strength nanocomposite hydrogels with outstanding UVâ€shielding property. Polymer Composites, 2016, 37, 810-817.	4.6	12
27	Rapid room-temperature self-healing conductive nanocomposites based on naturally dried graphene aerogels. Journal of Materials Chemistry C, 2018, 6, 10184-10191.	5.5	11
28	Soft Untethered Robots and Grippers Based on Humidity-Gated Magnetic-Responsive Film Actuators. ACS Applied Polymer Materials, 2021, 3, 4726-4734.	4.4	10
29	Synergistic toughening of nanocomposite hydrogel based on ultrasmall aluminum hydroxide nanoparticles and hydroxyapatite nanoparticles. Polymer Composites, 2019, 40, 942-951.	4.6	9
30	Thermal decomposition and kinetics studies on the poly (2,2-dinitropropyl acrylate) and 2,2-dinitropropyl acrylateâ€“2,2-dinitrobutyl acrylate copolymer. Journal of Thermal Analysis and Calorimetry, 2015, 122, 419-426.	3.6	8
31	Novel MAPbBr3 perovskite/ polymer nanocomposites with luminescence and self-healing properties: In suit fabrication and structure characterization. Optical Materials, 2021, 119, 111405.	3.6	5