Wei Cui

List of Publications by Year in Descending Order

24 papers	429 citations	10 h-index	20 g-index
25 ext. papers	585 ext. citations	9.3 avg, IF	3.76 L-index

#	Paper	IF	Citations
24	High strength hydrogels enable dendrite-free Zn metal anodes and high-capacity Zn‖MnO2 batteries via a modified mechanical suppression effect. *Journal of Materials Chemistry A*, **2022**, 10, 3122-3133	13	2
23	Facile preparation of cellulose hydrogel with Achilles tendon-like super strength through aligning hierarchical fibrous structure. *Chemical Engineering Journal*, **2022**, 428, 132040	14.7	5
22	Tough, Instant, and Repeatable Adhesion of Self-Healable Elastomers to Diverse Soft and Hard Surfaces.. *Advanced Science*, **2022**, e2105742	13.6	1
21	How chain dynamics affects crack initiation in double-network gels. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
20	A Review on Tough Soft Composites at Different Length Scales. *Textiles*, **2021**, 1, 513-533		
19	Nanophase Separation in Immiscible Double Network Elastomers Induces Synergetic Strengthening, Toughening, and Fatigue Resistance. *Chemistry of Materials*, **2021**, 33, 3321-3334	9.6	13
18	Transforming non-adhesive hydrogels to reversible tough adhesives via mixed-solvent-induced phase separation. *Journal of Materials Chemistry A*, **2021**, 9, 9706-9718	13	19
17	Robust and ultrasensitive hydrogel sensors enhanced by MXene/cellulose nanocrystals. *Journal of Materials Science*, **2021**, 56, 8871-8886	4.3	11
16	Tiny yet tough: Maximizing the toughness of fiber-reinforced soft composites in the absence of a fiber-fracture mechanism. *Matter*, **2021**,	12.7	2
15	Strong anisotropic hydrogels with ion transport capability via reswelling contrast of two oriented polymer networks. *Journal of Materials Chemistry A*, **2021**, 9, 20362-20370	13	3
14	Multimechanism Physical Cross-Linking Results in Tough and Self-Healing Hydrogels for Various Applications. *ACS Applied Polymer Materials*, **2020**, 2, 3378-3389	4.3	10
13	Fiber-Reinforced Viscoelastomers Show Extraordinary Crack Resistance That Exceeds Metals. *Advanced Materials*, **2020**, 32, e1907180	24	35
12	Mechanical behavior of unidirectional fiber reinforced soft composites. *Extreme Mechanics Letters*, **2020**, 35, 100642	3.9	7
11	Mechanical enhancement of hydrophobically associating hydrogels by solvent-regulated phase separation. *Polymer*, **2020**, 210, 123042	3.9	10
10	Superior fracture resistance of fiber reinforced polyampholyte hydrogels achieved by extraordinarily large energy-dissipative process zones. *Journal of Materials Chemistry A*, **2019**, 7, 13431-13440	13	26
9	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. *Matter*, **2019**, 1, 674-689	12.7	45
8	Synthesis of pH-responsive amphiphilic branched macro-RAFT agent and the application in surfactant-free emulsion polymerization. *RSC Advances*, **2016**, 6, 45172-45183	3.7	1

List of Publications

7	Robust, anti-fatigue, and self-healing graphene oxide/hydrophobically associated composite hydrogels and their use as recyclable adsorbents for dye wastewater treatment. *Journal of Materials Chemistry A*, **2015**, 3, 17445-17458	13	112
6	Covalent modification of graphene as a 2D nanofiller for enhanced mechanical performance of poly(glutamate) hybrid gels. *RSC Advances*, **2015**, 5, 86407-86413	3.7	10
5	A free radical assisted strategy for preparing functionalized carbon nanotubes as a highly efficient nucleating agent for poly(L-lactide). *RSC Advances*, **2015**, 5, 16604-16610	3.7	9
4	Robust dual physically cross-linked hydrogels with unique self-reinforcing behavior and improved dye adsorption capacity. *RSC Advances*, **2015**, 5, 52966-52977	3.7	41
3	Solution properties of a novel ampholytic polyphenylene sulfide. *Journal of Applied Polymer Science* , **2013**, 127, 4052-4060	2.9	3
2	Controlled Synthesis and Novel Solution Rheology of Hyperbranched Poly(urea□urethane)-Functionalized Multiwalled Carbon Nanotubes. *Macromolecules*, **2007**, 40, 5858-5867	5.5	52
1	Recent Progress in Double Network Elastomers: One Plus One is Greater Than Two. *Advanced Functional Materials*,2110244	15.6	5