Wei Zhang

List of Publications by Year
in descending order

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22 papers	1,812 citations	516710 16 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	2592 citing authors

#	Article	IF	Citations
1	Catechol-functionalized hydrogels: biomimetic design, adhesion mechanism, and biomedical applications. Chemical Society Reviews, 2020, 49, 433-464.	38.1	517
2	Electrically conductive hydrogels for flexible energy storage systems. Progress in Polymer Science, 2019, 88, 220-240.	24.7	260
3	Ultraâ€thin Solidâ€State Liâ€Ion Electrolyte Membrane Facilitated by a Selfâ€Healing Polymer Matrix. Advanced Materials, 2015, 27, 6922-6927.	21.0	182
4	A Facile In Situ Approach to Polypyrrole Functionalization Through Bioinspired Catechols. Advanced Functional Materials, 2015, 25, 1588-1597.	14.9	103
5	Surface and Tribological Behaviors of the Bioinspired Polydopamine Thin Films under Dry and Wet Conditions. Biomacromolecules, 2013, 14, 394-405.	5.4	96
6	Hydrogel networks as underwater contact adhesives for different surfaces. Materials Horizons, 2020, 7, 2063-2070.	12.2	88
7	Designing composite solid-state electrolytes for high performance lithium ion or lithium metal batteries. Chemical Science, 2020, 11, 8686-8707.	7.4	82
8	Boosting sodium storage properties of titanium dioxide by a multiscale design based on MOF-derived strategy. Energy Storage Materials, 2019, 17, 126-135.	18.0	68
9	Self-Assembled 3D MnO₂ Nanosheets@Delaminated-Ti₃C₂ Aerogel as Sulfur Host for Lithiumâ€“Sulfur Battery Cathodes. ACS Applied Energy Materials, 2019, 2, 705-714.	5.1	65
10	Thermochromic Hydrogels with Dynamic Solar Modulation and Regulatable Critical Response Temperature for Energyâ€Saving Smart Windows. Advanced Functional Materials, 2022, 32, 2109597.	14.9	61
11	Poly(AAc-co-MBA) Hydrogel Films: Adhesive and Mechanical Properties in Aqueous Medium. Journal of Physical Chemistry B, 2013, 117, 441-449.	2.6	56
12	A multidimensional nanostructural design towards electrochemically stable and mechanically strong hydrogel electrodes. Nanoscale, 2020, 12, 6637-6643.	5.6	49
13	Morphologically Controlled Bioinspired Dopamineâ€Polypyrrole Nanostructures with Tunable Electrical Properties. Advanced Electronic Materials, 2015, 1, 1500205.	5.1	48
14	Toward advanced sodium-ion batteries: a wheel-inspired yolkâ€“shell design for large-volume-change anode materials. Journal of Materials Chemistry A, 2018, 6, 13153-13163.	10.3	30
15	Simply Formulated Dry Pressure-Sensitive Adhesives for Substrate-Independent Underwater Adhesion. , 2022, 4, 410-417.		24
16	A highly elastic and flexible solid-state polymer electrolyte based on ionic liquid-decorated PMMA nanoparticles for lithium batteries. New Journal of Chemistry, 2017, 41, 13096-13103.	2.8	23
17	Ti₃C₂T_x nanosheet wrapped coreâ€“shell MnO₂ nanorods @ hollow porous carbon as a multifunctional polysulfide mediator for improved Liâ€“S batteries. Nanoscale, 2020, 12, 24196-24205.	5.6	17
18	Solution-processable Li₁₀GeP₂S₁₂ solid electrolyte for a composite electrode in all-solid-state lithium batteries. Sustainable Energy and Fuels, 2021, 5, 1211-1221.	4.9	13

#	Article	IF	Citations
19	SnO₂ nanorods encapsulated within a 3D interconnected graphene network architecture as high-performance lithium-ion battery anodes. Sustainable Energy and Fuels, 2018, 2, 262-270.	4.9	12
20	Amino-functionalized MOF derived porous Fe₃O₄/N-doped C encapsulated within a graphene network by self-assembling for enhanced Li-ion storage. Sustainable Energy and Fuels, 2020, 4, 3519-3527.	4.9	12
21	Rapid solidification of Portland cement/polyacrylamide hydrogel (PC/PAM) composites for diverse wastewater treatments. RSC Advances, 2020, 10, 18936-18944.	3.6	5
22	Imparting conformational memory for material adhesion. Materials Horizons, 2022, 9, 675-687.	12.2	1