Wen Zhao

List of Publications by Year
in descending order

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36 papers	3,134 citations	331670 21 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	5198 citing authors

#	Article	IF	Citations
1	High-Rate, Ultralong Cycle-Life Lithium/Sulfur Batteries Enabled by Nitrogen-Doped Graphene. Nano Letters, 2014, 14, 4821-4827.	9.1	683
2	Synchronous immobilization and conversion of polysulfides on a VO₂â€“VN binary host targeting high sulfur load Liâ€“S batteries. Energy and Environmental Science, 2018, 11, 2620-2630.	30.8	465
3	Vapourâ€“liquidâ€“solid growth of monolayer MoS2 nanoribbons. Nature Materials, 2018, 17, 535-542.	27.5	286
4	In Situ Assembly of 2D Conductive Vanadium Disulfide with Graphene as a Highâ€Sulfurâ€Loading Host for Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2018, 8, 1800201.	19.5	188
5	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. ACS Nano, 2020, 14, 10976-10985.	14.6	157
6	Defective VSe₂â€“Graphene Heterostructures Enabling In Situ Electrocatalyst Evolution for Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 11929-11938.	14.6	142
7	ZIFâ€8@ZIFâ€67â€Derived Nitrogenâ€Doped Porous Carbon Confined CoP Polyhedron Targeting Superior Potassiumâ€ion Storage. Small, 2020, 16, e1906566.	10.0	136
8	A few-layered Ti₃C₂nanosheet/glass fiber composite separator as a lithium polysulphide reservoir for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 5993-5998.	10.3	130
9	Liquidâ€Phase Electrochemical Scanning Electron Microscopy for In Situ Investigation of Lithium Dendrite Growth and Dissolution. Advanced Materials, 2017, 29, 1606187.	21.0	128
10	In-situ PECVD-enabled graphene-V2O3 hybrid host for lithiumâ€“sulfur batteries. Nano Energy, 2018, 53, 432-439.	16.0	105
11	In situ edge engineering in two-dimensional transition metal dichalcogenides. Nature Communications, 2018, 9, 2051.	12.8	100
12	Vanadium Dioxide-Graphene Composite with Ultrafast Anchoring Behavior of Polysulfides for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 15733-15741.	8.0	92
13	Designing ZIF-8/hydroxylated MWCNT nanocomposites for phosphate adsorption from water: Capability and mechanism. Chemical Engineering Journal, 2020, 394, 124992.	12.7	85
14	Temperatureâ€Mediated Engineering of Graphdiyne Framework Enabling Highâ€Performance Potassium Storage. Advanced Functional Materials, 2020, 30, 2003039.	14.9	62
15	Energetics and kinetics of phase transition between a 2H and a 1T MoS₂monolayerâ€”a theoretical study. Nanoscale, 2017, 9, 2301-2309.	5.6	59
16	Ultra-stable small diameter hybrid transition metal dichalcogenide nanotubes Xâ€“Mâ€“Y (X, Y = S, Se, Te;) Tj ETQq0 0 0 rgBT /Overlock	5.6	40
17	Solar-driven self-powered alkaline seawater electrolysis via multifunctional earth-abundant heterostructures. Chemical Engineering Journal, 2021, 411, 128538.	12.7	37
18	Synchronous Promotion in Sodiophilicity and Conductivity of Flexible Host via Vertical Graphene Cultivator for Longevous Sodium Metal Batteries. Advanced Functional Materials, 2021, 31, 2101233.	14.9	32

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19	Highly Potassiophilic Graphdiyne Skeletons Decorated with Cu Quantum Dots Enable Dendriteâ€Free Potassiumâ€Metal Anodes. Advanced Materials, 2022, 34, e2202685.	21.0	26
20	Phosphate removal by ZIF-8@MWCNT hybrids in presence of effluent organic matter: Adsorbent structure, wastewater quality, and DFT analysis. Science of the Total Environment, 2020, 745, 141054.	8.0	23
21	Proportional modulation of zinc-based MOF/carbon nanotube hybrids for simultaneous removal of phosphate and emerging organic contaminants with high efficiency. Chemical Engineering Journal, 2021, 417, 128063.	12.7	22
22	In situ atomic-scale observation of monolayer graphene growth from SiC. Nano Research, 2018, 11, 2809-2820.	10.4	21
23	Sulfur immobilization and lithium storage on defective graphene: A first-principles study. Applied Physics Letters, 2014, 104, 043901.	3.3	18
24	Harmonized edge/graphiticâ€nitrogen doped carbon nanopolyhedron@nanosheet composite via saltâ€confined strategy for advanced <scp>K</scp>â€ion hybrid capacitors. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 891-903.	17.3	18
25	Double-Spiral Hexagonal Boron Nitride and Shear Strained Coalescence Boundary. Nano Letters, 2019, 19, 4229-4236.	9.1	15
26	Morphology Evolution of Graphene during Chemical Vapor Deposition Growth: A Phase-Field Theory Simulation. Journal of Physical Chemistry C, 2019, 123, 9902-9908.	3.1	15
27	Density functional theory study of thiophene desulfurization and conversion of desulfurization products on the Ni(111) surface and Ni₅₅ cluster: implication for the mechanism of reactive adsorption desulfurization over Ni/ZnO catalysts. Catalysis Science and Technology, 2021, 11, 1615-1625.	4.1	12
28	Reconstructed edges of T phase transition metal dichalcogenides. Materials Today Physics, 2021, 19, 100411.	6.0	12
29	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. Chemistry of Materials, 2021, 33, 2506-2515.	6.7	10
30	Stable AA-Stacked Pt Nanoclusters Supported on Graphene/Ru(0001) and the Selective Catalysis: A Theoretical Study. ACS Applied Nano Materials, 2019, 2, 2921-2925.	5.0	7
31	Harnessing Optimized Surface Reconstruction of Single-Atom Ni-Doped Ni-NiO/NC Precatalysts toward Robust H₂O₂ Production. ACS Applied Materials & Interfaces, 2022, 14, 26803-26813.	8.0	5
32	Tailored design of well-defined hierarchical nitrogen-doped carbon via salt-confined strategy for selective Cd(â…¡) adsorption. Chemical Engineering Journal, 2022, 446, 137222.	12.7	2
33	Lithium Dendrites: Liquid-Phase Electrochemical Scanning Electron Microscopy for In Situ Investigation of Lithium Dendrite Growth and Dissolution (Adv. Mater. 13/2017). Advanced Materials, 2017, 29, .	21.0	1
34	Back Cover Image. InformaÄnÃ-MateriÃ¡ly, 2021, 3, .	17.3	0
35	Small transition-metal dichalcogenide nanostructures down to subnanometer by two-dimensional material origami. Physical Review Materials, 2019, 3, .	2.4	0
36	In Situ Atomistic Insight into Magnetic Metal Diffusion across Bi_{0.5}Sb_{1.5}Te₃ Quintuple Layers. Advanced Materials Interfaces, 2022, 9, .	3.7	0