Chao Wang

List of Publications by Year
in descending order

23	953	471371 17	642610 23
papers	citations	h-index	g-index

23	23	23	1490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Robust and Conductive Black Tin Oxide Nanostructure Makes Efficient Lithiumâ€Ion Batteries Possible. Advanced Materials, 2017, 29, 1700136.	11.1	212
2	Ultrasmall Au Nanoparticles Embedded in 2D Mixedâ€Ligand Metalâ€“Organic Framework Nanosheets Exhibiting Highly Efficient and Sizeâ€Selective Catalysis. Advanced Functional Materials, 2018, 28, 1802021.	7.8	115
3	Understanding and Controlling the Nucleation and Growth of Zn Electrodeposits for Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 32930-32936.	4.0	71
4	Li⁺â€Containing, Continuous Silica Nanofibers for High Li⁺ Conductivity in Composite Polymer Electrolyte. Small, 2019, 15, e1902729.	5.2	58
5	Galliumâ€“Carbenicillin Framework Coated Defectâ€Rich Hollow TiO₂ as a Photocatalyzed Oxidative Stress Amplifier against Complex Infections. Advanced Functional Materials, 2020, 30, 2004861.	7.8	50
6	Oxygenâ€Deficient Ferric Oxide as an Electrochemical Cathode Catalyst for Highâ€Energy Lithiumâ€“Sulfur Batteries. Small, 2020, 16, e2000870.	5.2	49
7	Thermal Lithiated-TiO₂: A Robust and Electron-Conducting Protection Layer for Liâ€“Si Alloy Anode. ACS Applied Materials & Interfaces, 2018, 10, 12750-12758.	4.0	45
8	Assembly of LiMnPO₄ Nanoplates into Microclusters as a High-Performance Cathode in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 27618-27624.	4.0	39
9	Three-Dimensional-Percolated Ceramic Nanoparticles along Natural-Cellulose-Derived Hierarchical Networks for High Li⁺ Conductivity and Mechanical Strength. Nano Letters, 2020, 20, 7397-7404.	4.5	37
10	Understanding the role of conductive polymer in thermal lithiation and battery performance of Li-Sn alloy anode. Energy Storage Materials, 2019, 20, 7-13.	9.5	32
11	Engineering Two-Dimensional Metalâ€“Organic Framework on Molecular Basis for Fast Li⁺ Conduction. Nano Letters, 2021, 21, 5805-5812.	4.5	31
12	In Situ Tuning of Defects and Phase Transition in Titanium Dioxide by Lithiothermic Reduction. ACS Applied Materials & Interfaces, 2020, 12, 5750-5758.	4.0	30
13	Fabrication of Homogeneous Non-Noble Metal Nanoparticles within Metalâ€“Organic Framework Nanosheets for Catalytic Reduction of 4-Nitrophenol. Crystal Growth and Design, 2020, 20, 6217-6225.	1.4	24
14	Scalable hierarchical lithiophilic engineering of metal foam enables stable lithium metal batteries. Chemical Engineering Journal, 2022, 435, 134643.	6.6	23
15	Fluorescence hydrogel array based on interfacial cation exchange amplification for highly sensitive microRNA detection. Analytica Chimica Acta, 2019, 1080, 206-214.	2.6	22
16	Surface Protection and Interface Regulation for Zn Anode via 1â€Hydroxy Ethylideneâ€1,1â€Diphosphonic Acid Electrolyte Additive toward Highâ€Performance Aqueous Batteries. Small, 2022, 18, e2107398.	5.2	22
17	Selective removal of nitrate via the synergistic effect of oxygen vacancies and plasmon-induced hot carriers. Chemical Engineering Journal, 2020, 397, 125435.	6.6	20
18	Selfâ€Assembly of Perovskite CsPbBr₃ Quantum Dots Driven by a Photoâ€Induced Alkynyl Homocoupling Reaction. Angewandte Chemie - International Edition, 2020, 59, 17207-17213.	7.2	19

#	Article	IF	Citations
19	Highâ€Performance and Stable Silicon Photoanode Modified by Crystalline Ni@ Amorphous Co Coreâ€Shell Nanoparticles. ChemCatChem, 2018, 10, 5025-5031.	1.8	14
20	Boosting the cycling stability of Li Si alloy microparticles through electroless copper deposition. Chemical Engineering Journal, 2019, 370, 1019-1026.	6.6	14
21	Membrane cleaning strategy via in situ oscillation driven by piezoelectricity. Journal of Membrane Science, 2021, 638, 119722.	4.1	11
22	Modulating the Chemical Microenvironment of Pt Nanoparticles within Ultrathin Nanosheets of Isoreticular MOFs for Enhanced Catalytic Activity. Inorganic Chemistry, 2022, 61, 2538-2545.	1.9	10
23	Lithiated Hybrid Polymer/Inorganic PAA/MnO₂ Protection Layer for High-Performance Tin Oxide Alloy Anode. ACS Applied Energy Materials, 2021, 4, 13208-13215.	2.5	5