Xuming Yang

List of Publications by Year
in descending order

28	1,634	394286	501076
papers	citations	19 h-index	28 g-index

28	28	28	1921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observing sodiation process and achieving high efficiency of yolk-shell antimony@carbon rods. Science China Materials, 2022, 65, 349-355.	3.5	1
2	Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO₂-Containing Products in Liâ€“O₂ Batteries Using Cryogenic Electron Microscopy. Journal of the American Chemical Society, 2022, 144, 2129-2136.	6.6	28
3	Yolkâ€“Shell Antimony/Carbon: Scalable Synthesis and Structural Stability Study in Sodium Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	14
4	Enabling Ultrastable Alkali Metal Anodes by Artificial Solid Electrolyte Interphase Fluorination. Nano Letters, 2022, 22, 4347-4353.	4.5	24
5	Bismuth Ferrite as an Electrocatalyst for the Electrochemical Nitrate Reduction. Nano Letters, 2022, 22, 5600-5606.	4.5	35
6	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO_x Nanosheets. ACS Catalysis, 2021, 11, 123-130.	5.5	138
7	MOF-Derived CoS₂/N-Doped Carbon Composite to Induce Short-Chain Sulfur Molecule Generation for Enhanced Sodiumâ€“Sulfur Battery Performance. ACS Applied Materials & Interfaces, 2021, 13, 18010-18020.	4.0	48
8	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. Nature Communications, 2021, 12, 3066.	5.8	92
9	Generating Shortâ€Chain Sulfur Suitable for Efficient Sodiumâ€“Sulfur Batteries via Atomic Copper Sites on a N,Oâ€Codoped Carbon Composite. Advanced Energy Materials, 2021, 11, 2100989.	10.2	55
10	Mechanically and structurally stable Sb2Se3/carbon nanocomposite as anode for the lithium-ion batteries. Journal of Alloys and Compounds, 2021, 874, 159859.	2.8	12
11	Probing atomic structure of beam-sensitive energy materials in their native states using cryogenic transmission electron microscopes. IScience, 2021, 24, 103385.	1.9	5
12	Clarifying the Roles of Cobalt and Nickel in the Structural Evolution of Layered Cathodes for Sodium-Ion Batteries. Nano Letters, 2021, 21, 9619-9624.	4.5	13
13	Electrocatalytic Reduction of Nitrate to Ammonia on Low-Cost Ultrathin CoO_x Nanosheets. ACS Catalysis, 2021, 11, 15135-15140.	5.5	144
14	Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy. Journal of Physical Chemistry Letters, 2021, 12, 12187-12195.	2.1	4
15	Three-dimensional visualization of lithium metal anode via low-dose cryogenic electron microscopy tomography. IScience, 2021, 24, 103418.	1.9	6
16	Hierarchical CoS₂/N-Doped Carbon@MoS₂ Nanosheets with Enhanced Sodium Storage Performance. ACS Applied Materials & Interfaces, 2020, 12, 54644-54652.	4.0	53
17	Covalent Encapsulation of Sulfur in a MOFâ€Derived S, Nâ€Doped Porous Carbon Host Realized via the Vaporâ€Infiltration Method Results in Enhanced Sodiumâ€“Sulfur Battery Performance. Advanced Energy Materials, 2020, 10, 2000931.	10.2	118
18	Metalâ€“Organic Framework Derived CoS₂ Wrapped with Nitrogen-Doped Carbon for Enhanced Lithium/Sodium Storage Performance. ACS Applied Materials & Interfaces, 2020, 12, 12809-12820.	4.0	82

#	Article	IF	Citations
19	Anodes and Sodiumâ€Free Cathodes in Sodium Ion Batteries. Advanced Energy Materials, 2020, 10, 2000288.	10.2	89
20	Polypyrrole and Carbon Nanotube Coâ€Composited Titania Anodes with Enhanced Sodium Storage Performance in Etherâ€Based Electrolyte. Advanced Sustainable Systems, 2019, 3, 1800154.	2.7	5
21	Electrochemical Techniques in Battery Research: A Tutorial for Nonelectrochemists. Advanced Energy Materials, 2019, 9, 1900747.	10.2	216
22	Confined annealing-induced transformation of tin oxide into sulfide for sodium storage applications. Journal of Materials Chemistry A, 2019, 7, 11877-11885.	5.2	18
23	Reversible Interaction of Sb with an Active Se Matrix Enhances the Cycle Stability of Electrodes for Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 2469-2475.	3.2	23
24	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. ACS Nano, 2018, 12, 3406-3416.	7.3	149
25	Carbonâ€Supported Nickel Selenide Hollow Nanowires as Advanced Anode Materials for Sodiumâ€Ion Batteries. Small, 2018, 14, 1702669.	5.2	87
26	Vacuum Calcination Induced Conversion of Selenium/Carbon Wires to Tubes for Highâ€Performance Sodiumâ€“Selenium Batteries. Advanced Functional Materials, 2018, 28, 1706609.	7.8	69
27	Waterâ€Soluble Biocompatible Copolymer Hypromellose Grafted Chitosan Able to Load Exogenous Agents and Copper Nanoclusters with Aggregationâ€Induced Emission. Advanced Functional Materials, 2018, 28, 1802848.	7.8	48
28	In Situ Fabrication of Flexible, Thermally Stable, Large-Area, Strongly Luminescent Copper Nanocluster/Polymer Composite Films. Chemistry of Materials, 2017, 29, 10206-10211.	3.2	58