

Xuming Yang

List of Publications by Year in descending order

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28
papers

1,634
citations

394286

19
h-index

501076

28
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28
all docs

28
docs citations

28
times ranked

1921
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Techniques in Battery Research: A Tutorial for Nonelectrochemists. <i>Advanced Energy Materials</i> , 2019, 9, 1900747.	10.2	216
2	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. <i>ACS Nano</i> , 2018, 12, 3406-3416.	7.3	149
3	Electrocatalytic Reduction of Nitrate to Ammonia on Low-Cost Ultrathin CoO _x Nanosheets. <i>ACS Catalysis</i> , 2021, 11, 15135-15140.	5.5	144
4	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO _x Nanosheets. <i>ACS Catalysis</i> , 2021, 11, 123-130.	5.5	138
5	Covalent Encapsulation of Sulfur in a MOF-Derived S, N-Doped Porous Carbon Host Realized via the Vapor-Infiltration Method Results in Enhanced Sodium-Sulfur Battery Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2000931.	10.2	118
6	Probing the Na metal solid electrolyte interphase via cryo-transmission electron microscopy. <i>Nature Communications</i> , 2021, 12, 3066.	5.8	92
7	Anodes and Sodium-Free Cathodes in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000288.	10.2	89
8	Carbon-Supported Nickel Selenide Hollow Nanowires as Advanced Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2018, 14, 1702669.	5.2	87
9	Metal-Organic Framework Derived CoS ₂ Wrapped with Nitrogen-Doped Carbon for Enhanced Lithium/Sodium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12809-12820.	4.0	82
10	Vacuum Calcination Induced Conversion of Selenium/Carbon Wires to Tubes for High-Performance Sodium-Selenium Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1706609.	7.8	69
11	In Situ Fabrication of Flexible, Thermally Stable, Large-Area, Strongly Luminescent Copper Nanocluster/Polymer Composite Films. <i>Chemistry of Materials</i> , 2017, 29, 10206-10211.	3.2	58
12	Generating Short-Chain Sulfur Suitable for Efficient Sodium-Sulfur Batteries via Atomic Copper Sites on a N,O-Codoped Carbon Composite. <i>Advanced Energy Materials</i> , 2021, 11, 2100989.	10.2	55
13	Hierarchical CoS ₂ /N-Doped Carbon@MoS ₂ Nanosheets with Enhanced Sodium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54644-54652.	4.0	53
14	Water-Soluble Biocompatible Copolymer Hypromellose Grafted Chitosan Able to Load Exogenous Agents and Copper Nanoclusters with Aggregation-Induced Emission. <i>Advanced Functional Materials</i> , 2018, 28, 1802848.	7.8	48
15	MOF-Derived CoS ₂ /N-Doped Carbon Composite to Induce Short-Chain Sulfur Molecule Generation for Enhanced Sodium-Sulfur Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18010-18020.	4.0	48
16	Bismuth Ferrite as an Electrocatalyst for the Electrochemical Nitrate Reduction. <i>Nano Letters</i> , 2022, 22, 5600-5606.	4.5	35
17	Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO ₂ -Containing Products in Li-O ₂ Batteries Using Cryogenic Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 2129-2136.	6.6	28
18	Enabling Ultrastable Alkali Metal Anodes by Artificial Solid Electrolyte Interphase Fluorination. <i>Nano Letters</i> , 2022, 22, 4347-4353.	4.5	24

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19	Reversible Interaction of Sb with an Active Se Matrix Enhances the Cycle Stability of Electrodes for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 2469-2475.	3.2	23
20	Confined annealing-induced transformation of tin oxide into sulfide for sodium storage applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11877-11885.	5.2	18
21	Yolk-Shell Antimony/Carbon: Scalable Synthesis and Structural Stability Study in Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
22	Clarifying the Roles of Cobalt and Nickel in the Structural Evolution of Layered Cathodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2021, 21, 9619-9624.	4.5	13
23	Mechanically and structurally stable Sb ₂ Se ₃ /carbon nanocomposite as anode for the lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 874, 159859.	2.8	12
24	Three-dimensional visualization of lithium metal anode via low-dose cryogenic electron microscopy tomography. <i>IScience</i> , 2021, 24, 103418.	1.9	6
25	Polypyrrole and Carbon Nanotube Co-Composited Titania Anodes with Enhanced Sodium Storage Performance in Ether-Based Electrolyte. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800154.	2.7	5
26	Probing atomic structure of beam-sensitive energy materials in their native states using cryogenic transmission electron microscopes. <i>IScience</i> , 2021, 24, 103385.	1.9	5
27	Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12187-12195.	2.1	4
28	Observing sodiation process and achieving high efficiency of yolk-shell antimony@carbon rods. <i>Science China Materials</i> , 2022, 65, 349-355.	3.5	1