Xiao Hua

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6546037/publications.pdf

Version: 2024-02-01

22 papers	2,150 citations	516710 16 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	4087 citing authors

#	Article	IF	Citations
1	Origin of additional capacities in metal oxide lithium-ion battery electrodes. Nature Materials, 2013, 12, 1130-1136.	27.5	635
2	Conversion Reaction Mechanisms in Lithium Ion Batteries: Study of the Binary Metal Fluoride Electrodes. Journal of the American Chemical Society, 2011, 133, 18828-18836.	13.7	492
3	Comprehensive Study of the CuF₂ Conversion Reaction Mechanism in a Lithium Ion Battery. Journal of Physical Chemistry C, 2014, 118, 15169-15184.	3.1	168
4	Multiple Redox Modes in the Reversible Lithiation of High-Capacity, Peierls-Distorted Vanadium Sulfide. Journal of the American Chemical Society, 2015, 137, 8499-8508.	13.7	127
5	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	5.3	125
6	Revisiting metal fluorides as lithium-ion battery cathodes. Nature Materials, 2021, 20, 841-850.	27.5	109
7	Flash Infrared Annealing for Antisolventâ€Free Highly Efficient Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702915.	19.5	106
8	Polymer-Templated LiFePO₄/C Nanonetworks as High-Performance Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 1646-1653.	8.0	71
9	The Morphology of TiO₂ (B) Nanoparticles. Journal of the American Chemical Society, 2015, 137, 13612-13623.	13.7	55
10	Mesoporous Titania Microspheres with Highly Tunable Pores as an Anode Material for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 22388-22397.	8.0	47
11	Lithiation Thermodynamics and Kinetics of the TiO₂ (B) Nanoparticles. Journal of the American Chemical Society, 2017, 139, 13330-13341.	13.7	45
12	New Insights into the Crystal and Electronic Structures of Li_{1+x}V_{1â€“x}O₂ from Solid State NMR, Pair Distribution Function Analyses, and First Principles Calculations. Chemistry of Materials, 2012, 24, 2880-2893.	6.7	40
13	Non-equilibrium metal oxides via reconversion chemistry in lithium-ion batteries. Nature Communications, 2021, 12, 561.	12.8	27
14	Phase Evolution During Perovskite Formationâ€”Insight from Pair Distribution Function Analysis. Chemistry of Materials, 2019, 31, 3498-3506.	6.7	26
15	Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. ACS Applied Nano Materials, 2019, 2, 4462-4470.	5.0	20
16	Comparing the excited-state properties of a mixed-cationâ€“mixed-halide perovskite to methylammonium lead iodide. Journal of Chemical Physics, 2020, 152, 104703.	3.0	18
17	Topological Transformation of Mgâ€Containing Layered Double Hydroxide Nanosheets for Efficient Photodriven CH₄ Coupling. Chemistry - A European Journal, 2021, 27, 13211-13220.	3.3	14
18	Flash Infrared Pulse Time Control of Perovskite Crystal Nucleation and Growth from Solution. Crystal Growth and Design, 2020, 20, 670-679.	3.0	12

#	Article	IF	Citations
19	Lithiation phase behaviors of metal oxide anodes and extra capacities. Cell Reports Physical Science, 2021, 2, 100543.	5.6	6
20	Polymer-templated mesoporous lithium titanate microspheres for high-performance lithium batteries. Materials Advances, 2022, 3, 362-372.	5.4	5
21	The Kinetics of Î²â€Hematin Crystallization Measured by Depolarized Light Scattering. Small, 2018, 14, e1802295.	10.0	2
22	X-Ray Scattering Analysis of the Morphology of TiO2 (B) Nanoparticles. ECS Meeting Abstracts, 2016, , .	0.0	0