

Zhijie Yang

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

660
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840776

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all docs

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docs citations

20
times ranked

713
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale Doping Chemistry in Co-Free High Energy Layered Cathodes. , 2022, , 14-23.		1
2	Mapping Lattice Distortions in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Materials. ACS Energy Letters, 2022, 7, 690-695.	17.4	14
3	Facile Dual-Protection Layer and Advanced Electrolyte Enhancing Performances of Cobalt-free/Nickel-rich Cathodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 17405-17414.	8.0	8
4	Sustainable Electric Vehicle Batteries for a Sustainable World: Perspectives on Battery Cathodes, Environment, Supply Chain, Manufacturing, Life Cycle, and Policy. Advanced Energy Materials, 2022, 12, .	19.5	72
5	Effect of the grain arrangements on the thermal stability of polycrystalline nickel-rich lithium-based battery cathodes. Nature Communications, 2022, 13, .	12.8	16
6	Probing Dopant Redistribution, Phase Propagation, and Local Chemical Changes in the Synthesis of Layered Oxide Battery Cathodes. Advanced Energy Materials, 2021, 11, .	19.5	28
7	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 1324-1332.	17.4	53
8	Heterogeneous, Defect-Rich Battery Particles and Electrodes: Why Do They Matter, and How Can One Leverage Them?. Journal of Physical Chemistry C, 2021, 125, 9618-9629.	3.1	7
9	Chemical Modulation of Local Transition Metal Environment Enables Reversible Oxygen Redox in Mn-Based Layered Cathodes. ACS Energy Letters, 2021, 6, 2882-2890.	17.4	15
10	Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery Electrodes for Operation in a Wide Temperature Range. Advanced Energy Materials, 2021, 11, 2102122.	19.5	27
11	New Insights into Structural Evolution of LiNiO_2 Revealed by Operando Neutron Diffraction. Batteries and Supercaps, 2021, 4, 1701-1707.	4.7	8
12	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. Nature Catalysis, 2020, 3, 743-753.	34.4	199
13	Enhancing surface oxygen retention through theory-guided doping selection in $\text{Li}_{1-x}\text{NiO}_2$ for next-generation lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 23293-23303.	10.3	44
14	A Surface Chemistry Approach to Tailoring the Hydrophilicity and Lithiophilicity of Carbon Films for Hosting High-Performance Lithium Metal Anodes. Advanced Functional Materials, 2020, 30, 2000585.	14.9	37
15	Structural and Electrochemical Impacts of Mg/Mn Dual Dopants on the LiNiO_2 Cathode in Li-Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 12874-12882.	8.0	75
16	Probing and quantifying cathode charge heterogeneity in Li ion batteries. Journal of Materials Chemistry A, 2019, 7, 23628-23661.	10.3	55
17	New Insights into Structural Evolution of LiNiO_2 Revealed by Operando Neutron Diffraction. Batteries and Supercaps, 0, , .	4.7	0