

Hanlei Zhang

List of Publications by Year in descending order

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1247
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#	ARTICLE	IF	CITATIONS
1	Oxygen Loss in Layered Oxide Cathodes for Li-Ion Batteries: Mechanisms, Effects, and Mitigation. <i>Chemical Reviews</i> , 2022, 122, 5641-5681.	47.7	108
2	Nanometal Thermocatalysts: Transformations, Deactivation, and Mitigation. <i>Small</i> , 2021, 17, e2005771.	10.0	6
3	Ultra-Microtome for the Preparation of TEM Specimens from Battery Cathodes. <i>Microscopy and Microanalysis</i> , 2020, 26, 867-877.	0.4	9
4	Layered Oxide Cathodes for Li-Ion Batteries: Oxygen Loss and Vacancy Evolution. <i>Chemistry of Materials</i> , 2019, 31, 7790-7798.	6.7	76
5	Intrinsic Challenges to the Electrochemical Reversibility of the High Energy Density Copper(II) Fluoride Cathode Material. <i>ACS Applied Energy Materials</i> , 2019, 2, 5243-5253.	5.1	29
6	Facet-Dependent Rock-Salt Reconstruction on the Surface of Layered Oxide Cathodes. <i>Chemistry of Materials</i> , 2018, 30, 692-699.	6.7	53
7	Structural Degradations in the Bulk of Cathode Particles for Li-ion Batteries. <i>Microscopy and Microanalysis</i> , 2018, 24, 1504-1505.	0.4	0
8	In-situ Atomic-Resolution Observations of Oxide-Reduction Induced Formation of Nano-Holes in Cu ₂ O Thin Films. <i>Microscopy and Microanalysis</i> , 2018, 24, 1816-1817.	0.4	0
9	Tailoring the formation of textured oxide films via primary and secondary nucleation of oxide islands. <i>Acta Materialia</i> , 2018, 156, 266-274.	7.9	2
10	Atomic Insight into the Layered/Spinel Phase Transformation in Charged LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ Cathode Particles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1421-1430.	3.1	52
11	Ambient temperature NO oxidation over Cr-based amorphous mixed oxide catalysts: effects from the second oxide components. <i>Catalysis Science and Technology</i> , 2017, 7, 2362-2370.	4.1	27
12	Formation of an Anti-Core-Shell Structure in Layered Oxide Cathodes for Li-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2598-2606.	17.4	42
13	Rock-Salt Growth-Induced (003) Cracking in a Layered Positive Electrode for Li-Ion Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2607-2615.	17.4	116
14	In-Situ TEM Study of Phase Evolution in Individual Battery Materials. <i>Microscopy and Microanalysis</i> , 2017, 23, 2008-2009.	0.4	0
15	The Intermediate State of the Layered \rightarrow Spinel Phase Transformation in LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ Cathode. <i>Microscopy and Microanalysis</i> , 2017, 23, 2014-2015.	0.4	1
16	Exceptional energy and new insight with a sodium-selenium battery based on a carbon nanosheet cathode and a pseudographite anode. <i>Energy and Environmental Science</i> , 2017, 10, 153-165.	30.8	184
17	An atomic study of the transitional region between $\sqrt{3}/\sqrt{3}$ laths in $\sqrt{3}$ -TiAl. <i>Intermetallics</i> , 2015, 60, 13-18.	3.9	7