

# Hanlei Zhang

## List of Publications by Year in descending order

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17  
papers

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citations

1040056

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h-index

1058476

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docs citations

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times ranked

1247  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
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	Facet-Dependent Rock-Salt Reconstruction on the Surface of Layered Oxide Cathodes. <i>Chemistry of Materials</i> , 2018, 30, 692-699.	6.7	53
6	Atomic Insight into the Layered/Spinel Phase Transformation in Charged $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Particles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1421-1430.	3.1	52
7	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
8	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
9	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
10	Ultra-Microtome for the Preparation of TEM Specimens from Battery Cathodes. <i>Microscopy and Microanalysis</i> , 2020, 26, 867-877.	0.4	9
11	An atomic study of the transitional region between $\hat{\Gamma}^3/\hat{\Gamma}^3$ laths in $\hat{\Gamma}^3$ -TiAl. <i>Intermetallics</i> , 2015, 60, 13-18.	3.9	7
12	Nanometal Thermocatalysts: Transformations, Deactivation, and Mitigation. <i>Small</i> , 2021, 17, e2005771.	10.0	6
13	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
14	The Intermediate State of the Layered $\hat{a}^+$ Spinel Phase Transformation in $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode. <i>Microscopy and Microanalysis</i> , 2017, 23, 2014-2015.	0.4	1
15	In-Situ TEM Study of Phase Evolution in Individual Battery Materials. <i>Microscopy and Microanalysis</i> , 2017, 23, 2008-2009.	0.4	0
16	Structural Degradations in the Bulk of Cathode Particles for Li-ion Batteries. <i>Microscopy and Microanalysis</i> , 2018, 24, 1504-1505.	0.4	0
17	In-situ Atomic-Resolution Observations of Oxide-Reduction Induced Formation of Nano-Holes in $\text{Cu}_2\text{O}$ Thin Films. <i>Microscopy and Microanalysis</i> , 2018, 24, 1816-1817.	0.4	0