

Wangda Li

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

5,912
citations

236833

25
h-index

501076

28
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29
all docs

29
docs citations

29
times ranked

5328
citing authors

#	ARTICLE	IF	CITATIONS
1	High-voltage positive electrode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , 2017, 46, 3006-3059.	18.7	986
2	High-nickel layered oxide cathodes for lithium-based automotive batteries. <i>Nature Energy</i> , 2020, 5, 26-34.	19.8	940
3	A perspective on nickel-rich layered oxide cathodes for lithium-ion batteries. <i>Energy Storage Materials</i> , 2017, 6, 125-139.	9.5	478
4	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. <i>Science</i> , 2020, 370, 192-197.	6.0	336
5	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. <i>Nature Communications</i> , 2017, 8, 14589.	5.8	306
6	Collapse of $\text{LiNi}_{1-x}\text{Co}_x\text{Mn}_y\text{O}_{2+z}$ Lattice at Deep Charge Irrespective of Nickel Content in Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 5097-5101.	6.6	299
7	A Mg-Doped High-Nickel Layered Oxide Cathode Enabling Safer, High-Energy-Density Li-Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 938-946.	3.2	288
8	Mn versus Al in Layered Oxide Cathodes in Lithium-Ion Batteries: A Comprehensive Evaluation on Long-Term Cyclability. <i>Advanced Energy Materials</i> , 2018, 8, 1703154.	10.2	260
9	Interfacial Chemistry in Solid-State Batteries: Formation of Interphase and Its Consequences. <i>Journal of the American Chemical Society</i> , 2018, 140, 250-257.	6.6	239
10	Long-Life Nickel-Rich Layered Oxide Cathodes with a Uniform Li_2ZrO_3 Surface Coating for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9718-9725.	4.0	219
11	High-Nickel NMA: A Cobalt-Free Alternative to NMC and NCA Cathodes for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2002718.	11.1	205
12	Extending the Service Life of High-Ni Layered Oxides by Tuning the Electrode-Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2018, 8, 1801957.	10.2	171
13	Formation and Inhibition of Metallic Lithium Microstructures in Lithium Batteries Driven by Chemical Crossover. <i>ACS Nano</i> , 2017, 11, 5853-5863.	7.3	155
14	Long-Term Cyclability of NCM-811 at High Voltages in Lithium-Ion Batteries: an In-Depth Diagnostic Study. <i>Chemistry of Materials</i> , 2020, 32, 7796-7804.	3.2	152
15	Understanding the Air-Exposure Degradation Chemistry at a Nanoscale of Layered Oxide Cathodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 182-188.	4.5	122
16	Overcoming the chemical instability on exposure to air of Ni-rich layered oxide cathodes by coating with spinel $\text{LiMn}_{1.9}\text{Al}_{0.1}\text{O}_4$. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5839-5841.	5.2	119
17	Facilitating the Operation of Lithium-Ion Cells with High-Nickel Layered Oxide Cathodes with a Small Dose of Aluminum. <i>Chemistry of Materials</i> , 2018, 30, 3101-3109.	3.2	119
18	In-Depth Analysis of the Degradation Mechanisms of High-Nickel, Low/No-Cobalt Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100858.	10.2	79

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19	High-Performance Heterostructured Cathodes for Lithium-Ion Batteries with a Ni-Rich Layered Oxide Core and a Li-Rich Layered Oxide Shell. <i>Advanced Science</i> , 2016, 3, 1600184.	5.6	78
20	Ethylene Carbonate-Free Electrolytes for High-Nickel Layered Oxide Cathodes in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901152.	10.2	78
21	Insights into Boron-Based Polyanion-Tuned High-Nickel Cathodes for High-Energy-Density Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 8886-8897.	3.2	71
22	Insights into the Cathode-Electrolyte Interphases of High-Energy-Density Cathodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16451-16461.	4.0	60
23	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. <i>Chemistry of Materials</i> , 2020, 32, 1002-1010.	3.2	44
24	Delineating the Roles of Mn, Al, and Co by Comparing Three Layered Oxide Cathodes with the Same Nickel Content of 70% for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2022, 34, 629-642.	3.2	38
25	Influence of Calendering on the Electrochemical Performance of $\text{LiNi}_{0.9}\text{Mn}_{0.05}\text{Al}_{0.05}\text{O}_2$ Cathodes in Lithium-Ion Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42898-42908.	4.0	37
26	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. <i>Review of Scientific Instruments</i> , 2018, 89, 093002.	0.6	18
27	Essential effect of the electrolyte on the mechanical and chemical degradation of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ cathodes upon long-term cycling. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2111-2119.	5.2	14
28	Ethylene Carbonate-Free Electrolytes for High-Nickel Layered Oxide Cathodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
29	A Comparison of Electrode Surface Films Formed with Different Oxide Cathodes for Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0