Wangda Li

List of Publications by Year
in descending order

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29	5,912	236833	501076
papers	citations	25 h-index	28 g-index

29	29	29	5328
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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. Chemistry of Materials, 2022, 34, 629-642.	3.2	38
2	Essential effect of the electrolyte on the mechanical and chemical degradation of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ cathodes upon long-term cycling. Journal of Materials Chemistry A, 2021, 9, 2111-2119.	5.2	14
3	Inâ€Depth Analysis of the Degradation Mechanisms of Highâ€Nickel, Low/Noâ€Cobalt Layered Oxide Cathodes for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2100858.	10.2	79
4	Influence of Calendering on the Electrochemical Performance of LiNi_{0.9}Mn_{0.05}Al_{0.05}O₂ Cathodes in Lithium-Ion Cells. ACS Applied Materials & Interfaces, 2021, 13, 42898-42908.	4.0	37
5	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. Chemistry of Materials, 2020, 32, 1002-1010.	3.2	44
6	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. Science, 2020, 370, 192-197.	6.0	336
7	Long-Term Cyclability of NCM-811 at High Voltages in Lithium-Ion Batteries: an In-Depth Diagnostic Study. Chemistry of Materials, 2020, 32, 7796-7804.	3.2	152
8	Insights into the Cathodeâ€“Electrolyte Interphases of High-Energy-Density Cathodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 16451-16461.	4.0	60
9	Highâ€Nickel NMA: A Cobaltâ€Free Alternative to NMC and NCA Cathodes for Lithiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2002718.	11.1	205
10	High-nickel layered oxide cathodes for lithium-based automotive batteries. Nature Energy, 2020, 5, 26-34.	19.8	940
11	Insights into Boron-Based Polyanion-Tuned High-Nickel Cathodes for High-Energy-Density Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 8886-8897.	3.2	71
12	A Mg-Doped High-Nickel Layered Oxide Cathode Enabling Safer, High-Energy-Density Li-Ion Batteries. Chemistry of Materials, 2019, 31, 938-946.	3.2	288
13	Ethylene Carbonateâ€Free Electrolytes for Highâ€Nickel Layered Oxide Cathodes in Lithiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1901152.	10.2	78
14	Collapse of LiNi_{1â€“xâ€“y}Co_xMn_yO₂ Lattice at Deep Charge Irrespective of Nickel Content in Lithium-Ion Batteries. Journal of the American Chemical Society, 2019, 141, 5097-5101.	6.6	299
15	Understanding the Air-Exposure Degradation Chemistry at a Nanoscale of Layered Oxide Cathodes for Sodium-Ion Batteries. Nano Letters, 2019, 19, 182-188.	4.5	122
16	Ethylene Carbonate-Free Electrolytes for High-Nickel Layered Oxide Cathodes. ECS Meeting Abstracts, 2019, , .	0.0	1
17	A Comparison of Electrode Surface Films Formed with Different Oxide Cathodes for Lithium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
18	Facilitating the Operation of Lithium-Ion Cells with High-Nickel Layered Oxide Cathodes with a Small Dose of Aluminum. Chemistry of Materials, 2018, 30, 3101-3109.	3.2	119

#	Article	IF	Citations
19	Mn versus Al in Layered Oxide Cathodes in Lithiumâ€Ion Batteries: A Comprehensive Evaluation on Longâ€Term Cyclability. Advanced Energy Materials, 2018, 8, 1703154.	10.2	260
20	Interfacial Chemistry in Solid-State Batteries: Formation of Interphase and Its Consequences. Journal of the American Chemical Society, 2018, 140, 250-257.	6.6	239
21	Extending the limits of powder diffraction analysis: Diffraction parameter space, occupancy defects, and atomic form factors. Review of Scientific Instruments, 2018, 89, 093002.	0.6	18
22	Extending the Service Life of Highâ€Ni Layered Oxides by Tuning the Electrodeâ€“Electrolyte Interphase. Advanced Energy Materials, 2018, 8, 1801957.	10.2	171
23	Long-Life Nickel-Rich Layered Oxide Cathodes with a Uniform Li₂ZrO₃ Surface Coating for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 9718-9725.	4.0	219
24	Formation and Inhibition of Metallic Lithium Microstructures in Lithium Batteries Driven by Chemical Crossover. ACS Nano, 2017, 11, 5853-5863.	7.3	155
25	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. Nature Communications, 2017, 8, 14589.	5.8	306
26	High-voltage positive electrode materials for lithium-ion batteries. Chemical Society Reviews, 2017, 46, 3006-3059.	18.7	986
27	A perspective on nickel-rich layered oxide cathodes for lithium-ion batteries. Energy Storage Materials, 2017, 6, 125-139.	9.5	478
28	Highâ€Performance Heterostructured Cathodes for Lithiumâ€Ion Batteries with a Niâ€Rich Layered Oxide Core and a Liâ€Rich Layered Oxide Shell. Advanced Science, 2016, 3, 1600184.	5.6	78
29	Overcoming the chemical instability on exposure to air of Ni-rich layered oxide cathodes by coating with spinel LiMn_{1.9}Al_{0.1}O₄. Journal of Materials Chemistry A, 2016, 4, 5839-5841.	5.2	119