Leiting Zhang

List of Publications by Year
in descending order

25 papers	1,273 citations	471509 17 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	1779 citing authors

#	Article	IF	Citations
1	One-pot synthesis of ZnFe2O4/C hollow spheres as superior anode materials for lithium ion batteries. Chemical Communications, 2011, 47, 6828.	4.1	214
2	Unlocking anionic redox activity in O3-type sodium 3d layered oxides via Li substitution. Nature Materials, 2021, 20, 353-361.	27.5	155
3	Controllable synthesis of spinel nano-ZnMn2O4via a single source precursor route and its high capacity retention as anode material for lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 11987.	6.7	130
4	Phosphate Ion Functionalization of Perovskite Surfaces for Enhanced Oxygen Evolution Reaction. Journal of Physical Chemistry Letters, 2017, 8, 3466-3472.	4.6	109
5	Structural evolution at the oxidative and reductive limits in the first electrochemical cycle of Li1.2Ni0.13Mn0.54Co0.13O2. Nature Communications, 2020, 11, 1252.	12.8	89
6	CoS-interposed and Ketjen black-embedded carbon nanofiber framework as a separator modulation for high performance Li-S batteries. Chemical Engineering Journal, 2019, 369, 77-86.	12.7	75
7	Correlating ligand-to-metal charge transfer with voltage hysteresis in a Li-rich rock-salt compound exhibiting anionic redox. Nature Chemistry, 2021, 13, 1070-1080.	13.6	75
8	Revealing pH-Dependent Activities and Surface Instabilities for Ni-Based Electrocatalysts during the Oxygen Evolution Reaction. ACS Energy Letters, 2018, 3, 2884-2890.	17.4	74
9	Unraveling gas evolution in sodium batteries by online electrochemical mass spectrometry. Energy Storage Materials, 2021, 42, 12-21.	18.0	47
10	Assessing Longâ€Term Cycling Stability of Singleâ€Crystal Versus Polycrystalline Nickelâ€Rich NCM in Pouch Cells with 6 mAh cm^{âˆ’2} Electrodes. Small, 2022, 18, e2107357.	10.0	41
11	Capturing dynamic ligand-to-metal charge transfer with a long-lived cationic intermediate for anionic redox. Nature Materials, 2022, 21, 1165-1174.	27.5	34
12	Influence of relative humidity on the structure and electrochemical performance of sustainable LiFeSO₄F electrodes for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16988-16997.	10.3	32
13	Unraveling the Voltageâ€Dependent Oxidation Mechanisms of Poly(Ethylene Oxide)â€Based Solid Electrolytes for Solidâ€State Batteries. Advanced Materials Interfaces, 2022, 9, 2100704.	3.7	28
14	Deciphering Interfacial Reactions via Optical Sensing to Tune the Interphase Chemistry for Optimized Naâ€Ion Electrolyte Formulation. Advanced Energy Materials, 2021, 11, 2101490.	19.5	24
15	Net-Structured Filter of Co(OH)₂-Anchored Carbon Nanofibers with Ketjen Black for High Performance Liâ€“S Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 17099-17107.	6.7	23
16	Rational design of a heterogeneous double-layered composite solid electrolyte via synergistic strategies of asymmetric polymer matrices and functional additives to enable 4.5â€V all-solid-state lithium batteries with superior performance. Energy Storage Materials, 2022, 45, 1062-1073.	18.0	21
17	New Amorphous Iron-Based Oxyfluorides as Cathode Materials for High-Capacity Lithium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 21386-21394.	3.1	18
18	Origin of the High Capacity Manganese-Based Oxyfluoride Electrodes for Rechargeable Batteries. Chemistry of Materials, 2018, 30, 5362-5372.	6.7	16

#	Article	IF	Citations
19	Synthesis by Thermal Decomposition of Two Iron Hydroxyfluorides: Structural Effects of Li Insertion. Chemistry of Materials, 2019, 31, 4246-4257.	6.7	16
20	Impact of Nickel Substitution into Model Li-Rich Oxide Cathode Materials for Li-Ion Batteries. Chemistry of Materials, 2020, 32, 849-857.	6.7	16
21	Triggering the In Situ Electrochemical Formation of High Capacity Cathode Material from MnO. Advanced Energy Materials, 2017, 7, 1602200.	19.5	15
22	Electrochemically activated MnO as a cathode material for sodium-ion batteries. Electrochemistry Communications, 2017, 77, 81-84.	4.7	12
23	Elucidating the Humidity-Induced Degradation of Ni-Rich Layered Cathodes for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 13240-13249.	8.0	9
24	Triggering the in Situ Electrochemical Formation of High Energy Density Cathode Material from MnO. ECS Meeting Abstracts, 2016, , .	0.0	0
25	Elucidation of Gas Evolution in Model Sodium Battery Cells By Online Electrochemical Mass Spectrometry. ECS Meeting Abstracts, 2021, MA2021-02, 250-250.	0.0	0