

Jie-Nan Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8435982/publications.pdf>

Version: 2024-02-01

25
papers

4,390
citations

279798

23
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

4255
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen-redox reactions in LiCoO ₂ cathode without O–O bonding during charge-discharge. <i>Joule</i> , 2021, 5, 720-736.	24.0	56
2	Investigations on the Fundamental Process of Cathode Electrolyte Interphase Formation and Evolution of High-Voltage Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2319-2326.	8.0	186
3	Hierarchical Defect Engineering for LiCoO ₂ through Low-Solubility Trace Element Doping. <i>CheM</i> , 2020, 6, 2759-2769.	11.7	74
4	4.2 V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. <i>Energy Storage Materials</i> , 2020, 32, 191-198.	18.0	77
5	An In Situ Formed Surface Coating Layer Enabling LiCoO ₂ with Stable 4.6 V High Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020, 10, 2001413.	19.5	201
6	Realizing long-term cycling stability and superior rate performance of 4.5 V LiCoO ₂ by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. <i>Journal of Power Sources</i> , 2020, 470, 228423.	7.8	57
7	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMn ₂ O ₄ Cathode: <i>In Situ</i> Ultraviolet-Visible Spectroscopy and <i>Ab Initio</i> Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3051-3057.	4.6	60
8	Anionic redox reaction in layered NaCr _{2/3} Ti _{1/3} S ₂ through electron holes formation and dimerization of S. <i>Nature Communications</i> , 2019, 10, 4458.	12.8	38
9	Trace doping of multiple elements enables stable battery cycling of LiCoO ₂ at 4.6 V. <i>Nature Energy</i> , 2019, 4, 594-603.	39.5	572
10	Improved electrochemical performance of Li(Ni _{0.6} Co _{0.2} Mn _{0.2})O ₂ at high charging cut-off voltage with Li _{1.4} Al _{0.4} Ti _{1.6} (PO ₄) ₃ surface coating*. <i>Chinese Physics B</i> , 2019, 28, 068202.	1.4	16
11	Building aqueous K-ion batteries for energy storage. <i>Nature Energy</i> , 2019, 4, 495-503.	39.5	630
12	Na ⁺ /vacancy disordering promises high-rate Na-ion batteries. <i>Science Advances</i> , 2018, 4, eaar6018.	10.3	341
13	Dynamic evolution of cathode electrolyte interphase (CEI) on high voltage LiCoO ₂ cathode and its interaction with Li anode. <i>Energy Storage Materials</i> , 2018, 14, 1-7.	18.0	307
14	Surface-protected LiCoO ₂ with ultrathin solid oxide electrolyte film for high-voltage lithium ion batteries and lithium polymer batteries. <i>Journal of Power Sources</i> , 2018, 388, 65-70.	7.8	139
15	Suppressing the voltage decay of low-cost P2-type iron-based cathode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20795-20803.	10.3	54
16	Suppressing Surface Lattice Oxygen Release of Li-Rich Cathode Materials via Heterostructured Spinel Li ₄ Mn ₅ O ₁₂ Coating. <i>Advanced Materials</i> , 2018, 30, e1801751.	21.0	348
17	Exposing {010} Active Facets by Multiple-Layer Oriented Stacking Nanosheets for High-Performance Capacitive Sodium-Ion Oxide Cathode. <i>Advanced Materials</i> , 2018, 30, e1803765.	21.0	142
18	Improved electrochemical performances of high voltage LiCoO ₂ with tungsten doping. <i>Chinese Physics B</i> , 2018, 27, 088202.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. <i>Nature Communications</i> , 2018, 9, 3341.	12.8	60
20	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO_2 Cathode in a Working All-Solid-State Battery. <i>Journal of the American Chemical Society</i> , 2017, 139, 4274-4277.	13.7	142
21	Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 8440-8443.	13.7	303
22	Ti ⁴⁺ -Substituted $\text{NaNi}_{0.5}\text{Mn}_{0.5}\text{O}_x$ Cathodes with Reversible O3 ⁺ ~P3 Phase Transition for High-Performance Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1700210.	21.0	309
23	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20138-20146.	8.0	197
24	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 875-881.	2.9	45
25	Facile encapsulation of monodispersed silver nanoparticles in mesoporous compounds. <i>Chemical Engineering Journal</i> , 2012, 195-196, 254-260.	12.7	24