Jie-Nan Zhang

List of Publications by Year
in descending order

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	Building aqueous K-ion batteries for energy storage. Nature Energy, 2019, 4, 495-503.	39.5	630
2	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6â€‰V. Nature Energy, 2019, 4, 594-603.	39.5	572
3	Suppressing Surface Lattice Oxygen Release of Liâ€Rich Cathode Materials via Heterostructured Spinel Li₄Mn₅O₁₂ Coating. Advanced Materials, 2018, 30, e1801751.	21.0	348
4	Na ⁺ /vacancy disordering promises high-rate Na-ion batteries. Science Advances, 2018, 4, eaar6018.	10.3	341
5	Tiâ€Substituted NaNi_{0.5}Mn_{0.5â€‹}_xTi_xO₂ Cathodes with Reversible O3â‟P3 Phase Transition for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1700210.	21.0	309
6	Dynamic evolution of cathode electrolyte interphase (CEI) on high voltage LiCoO2 cathode and its interaction with Li anode. Energy Storage Materials, 2018, 14, 1-7.	18.0	307
7	Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. Journal of the American Chemical Society, 2017, 139, 8440-8443.	13.7	303
8	An In Situ Formed Surface Coating Layer Enabling LiCoO₂ with Stable 4.6 V Highâ€Voltage Cycle Performances. Advanced Energy Materials, 2020, 10, 2001413.	19.5	201
9	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20138-20146.	8.0	197
10	Investigations on the Fundamental Process of Cathode Electrolyte Interphase Formation and Evolution of High-Voltage Cathodes. ACS Applied Materials & Interfaces, 2020, 12, 2319-2326.	8.0	186
11	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO₂ Cathode in a Working All-Solid-State Battery. Journal of the American Chemical Society, 2017, 139, 4274-4277.	13.7	142
12	Exposing {010} Active Facets by Multipleâ€Layer Oriented Stacking Nanosheets for Highâ€Performance Capacitive Sodiumâ€Ion Oxide Cathode. Advanced Materials, 2018, 30, e1803765.	21.0	142
13	Surface-protected LiCoO2 with ultrathin solid oxide electrolyte film for high-voltage lithium ion batteries and lithium polymer batteries. Journal of Power Sources, 2018, 388, 65-70.	7.8	139
14	4.2Ââ€‹V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. Energy Storage Materials, 2020, 32, 191-198.	18.0	77
15	Hierarchical Defect Engineering for LiCoO2 through Low-Solubility Trace Element Doping. CheM, 2020, 6, 2759-2769.	11.7	74
16	Three-dimensional atomic-scale observation of structural evolution of cathode material in a working all-solid-state battery. Nature Communications, 2018, 9, 3341.	12.8	60
17	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMn₂O₄ Cathode: In Situ Ultravioletâ€“Visible Spectroscopy and Ab Initio Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2020, 11, 3051-3057.	4.6	60
18	Realizing long-term cycling stability and superior rate performance of 4.5ÂVâ€“LiCoO2 by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. Journal of Power Sources, 2020, 470, 228423.	7.8	57

#	Article	IF	Citations
19	Oxygen-redox reactions in LiCoO2 cathode without Oâ€“O bonding during charge-discharge. Joule, 2021, 5, 720-736.	24.0	56
20	Suppressing the voltage decay of low-cost P2-type iron-based cathode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 20795-20803.	10.3	54
21	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. Journal of Applied Electrochemistry, 2012, 42, 875-881.	2.9	45
22	Anionic redox reaction in layered NaCr2/3Ti1/3S2 through electron holes formation and dimerization of Sâ€“S. Nature Communications, 2019, 10, 4458.	12.8	38
23	Facile encapsulation of monodispersed silver nanoparticles in mesoporous compounds. Chemical Engineering Journal, 2012, 195-196, 254-260.	12.7	24
24	Improved electrochemical performance of Li(Ni_{0.6}Co_{0.2}Mn_{0.2})O₂ at high charging cut-off voltage with Li_{1.4}Al_{0.4}Ti_{1.6}(PO₄)₃ surface coating*. Chinese Physics B, 2019, 28, 068202.	1.4	16
25	Improved electrochemical performances of high voltage LiCoO₂ with tungsten doping. Chinese Physics B, 2018, 27, 088202.	1.4	12