

Ning Zhang

List of Publications by Year in descending order

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22
papers

1,778
citations

430754

18
h-index

677027

22
g-index

22
all docs

22
docs citations

22
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	A Wide Range of Testing Results on an Excellent Lithium-Ion Cell Chemistry to be used as Benchmarks for New Battery Technologies. Journal of the Electrochemical Society, 2019, 166, A3031-A3044.	1.3	286
2	Is Cobalt Needed in Ni-Rich Positive Electrode Materials for Lithium Ion Batteries?. Journal of the Electrochemical Society, 2019, 166, A429-A439.	1.3	259
3	An Unavoidable Challenge for Ni-Rich Positive Electrode Materials for Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 7574-7583.	3.2	205
4	Updating the Structure and Electrochemistry of $\text{Li}_{1-x}\text{NiO}_2$ for $0 \leq x \leq 1$. Journal of the Electrochemical Society, 2018, 165, A2985-A2993.	1.3	194
5	Synthesis of Single Crystal $\text{LiNi}_{0.88}\text{Co}_{0.09}\text{Al}_{0.03}\text{O}_2$ with a Two-Step Lithiation Method. Journal of the Electrochemical Society, 2019, 166, A1956-A1963.	1.3	117
6	Dependence of Cell Failure on Cut-Off Voltage Ranges and Observation of Kinetic Hindrance in $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$. Journal of the Electrochemical Society, 2018, 165, A2682-A2695.	1.3	99
7	Structural, Electrochemical, and Thermal Properties of Nickel-Rich $\text{LiNi}_x\text{Mn}_y\text{Co}_z\text{O}_2$ Materials. Chemistry of Materials, 2018, 30, 8852-8860.	3.2	80
8	Cobalt-Free Nickel-Rich Positive Electrode Materials with a Core-Shell Structure. Chemistry of Materials, 2019, 31, 10150-10160.	3.2	69
9	Study of the Reactions between Ni-Rich Positive Electrode Materials and Aqueous Solutions and their Relation to the Failure of Li-Ion Cells. Journal of the Electrochemical Society, 2020, 167, 130521.	1.3	64
10	Impact of the Synthesis Conditions on the Performance of $\text{LiNi}_x\text{Co}_y\text{Al}_z\text{O}_2$ with High Ni and Low Co Content. Journal of the Electrochemical Society, 2018, 165, A3544-A3557.	1.3	55
11	Investigating the Effects of Magnesium Doping in Various Ni-Rich Positive Electrode Materials for Lithium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A4025-A4033.	1.3	54
12	Synthesis and characterization of a poly(o-anisidine)-SiC composite and its application for corrosion protection of steel. RSC Advances, 2017, 7, 11732-11742.	1.7	49
13	Mechanism of Action of the Tungsten Dopant in LiNiO_2 Positive Electrode Materials. Advanced Energy Materials, 2022, 12, .	10.2	49
14	Impact of Dopants (Al, Mg, Mn, Co) on the Reactivity of Li_xNiO_2 with the Electrolyte of Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A2826-A2833.	1.3	46
15	Synthesis of Co-Free Ni-Rich Single Crystal Positive Electrode Materials for Lithium Ion Batteries: Part I. Two-Step Lithiation Method for Al- or Mg-Doped LiNiO_2 . Journal of the Electrochemical Society, 2021, 168, 040531.	1.3	33
16	Factors that Affect Capacity in the Low Voltage Kinetic Hindrance Region of Ni-Rich Positive Electrode Materials and Diffusion Measurements from a Reinvented Approach. Journal of the Electrochemical Society, 2021, 168, 070503.	1.3	29
17	Preparation of poly(o-ethoxyaniline)-nano SiC composite and evaluation of its corrosion resistance properties. Journal of Alloys and Compounds, 2017, 717, 98-107.	2.8	20
18	Investigating the Removal of Layered Double Hydroxides in $[\text{Ni}_{0.80}\text{Co}_{0.15}]_{0.95-x}\text{Al}_{0.05+x}(\text{OH})_2$ ($x = 0$)	1.0	18

#	ARTICLE	IF	CITATIONS
19	Effects of Fluorine Doping on Nickel-Rich Positive Electrode Materials for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 080518.	1.3	18
20	Synthesis of Co-Free Ni-Rich Single Crystal Positive Electrode Materials for Lithium Ion Batteries: Part II. One-Step Lithiation Method of Mg-Doped LiNiO_2 . Journal of the Electrochemical Society, 2021, 168, 050506.	1.3	16
21	Boosting the electrochemical performance of $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ through a trace amount of Mg-B co-doping. Journal of Materials Science and Technology, 2021, 89, 167-178.	5.6	11
22	Preparation of Poly(o-ethylaniline)-SiC/Zinc Bilayer Coatings and Study of Its Corrosion Resistance Properties. Journal of the Electrochemical Society, 2018, 165, G56-G65.	1.3	7