Yan Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3933410/publications.pdf

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20	1,665	623734	752698
papers	citations	14 h-index	20 g-index

20	20	20	950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing the next generation of proton-exchange membrane fuel cells. Nature, 2021, 595, 361-369.	27.8	1,012
2	Surface Cooling Causes Accelerated Degradation Compared to Tab Cooling for Lithium-Ion Pouch Cells. Journal of the Electrochemical Society, 2016, 163, A1846-A1852.	2.9	136
3	Modeling the Effects of Thermal Gradients Induced by Tab and Surface Cooling on Lithium Ion Cell Performance. Journal of the Electrochemical Society, 2018, 165, A3169-A3178.	2.9	82
4	A reliable approach of differentiating discrete sampled-data for battery diagnosis. ETransportation, 2020, 3, 100051.	14.8	71
5	Potentiometric measurement of entropy change for lithium batteries. Physical Chemistry Chemical Physics, 2017, 19, 9833-9842.	2.8	48
6	The Cell Cooling Coefficient: A Standard to Define Heat Rejection from Lithium-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A2383-A2395.	2.9	46
7	Highâ€Performance Aqueous Naâ€“Zn Hybrid Ion Battery Boosted by â€œWaterâ€Inâ€Gelâ€•Electrolyte. Advanced Functional Materials, 2021, 31, 2008783.	14.9	45
8	Preventing lithium ion battery failure during high temperatures by externally applied compression. Journal of Energy Storage, 2017, 13, 296-303.	8.1	41
9	How to Cool Lithium Ion Batteries: Optimising Cell Design using a Thermally Coupled Model. Journal of the Electrochemical Society, 2019, 166, A2849-A2859.	2.9	39
10	Highâ€Energy SWCNT Cathode for Aqueous Alâ€Ion Battery Boosted by Multiâ€Ion Intercalation Chemistry. Advanced Energy Materials, 2021, 11, 2101514.	19.5	23
11	Bioâ€Inspired Binder Design for a Robust Conductive Network in Siliconâ€Based Anodes. Small Methods, 2022, 6, e2101591.	8.6	23
12	Localized Swelling Inhomogeneity Detection in Lithium Ion Cells Using Multi-Dimensional Laser Scanning. Journal of the Electrochemical Society, 2019, 166, A27-A34.	2.9	21
13	The role of cell geometry when selecting tab or surface cooling to minimise cell degradation. ETransportation, 2020, 5, 100073.	14.8	20
14	Constructing a Resilient Hierarchical Conductive Network to Promote Cycling Stability of SiO_x Anode via Binder Design. Small, 2021, 17, e2102256.	10.0	17
15	Simulation of bi-layer cathode materials with experimentally validated parameters to improve ion diffusion and discharge capacity. Sustainable Energy and Fuels, 2021, 5, 1103-1119.	4.9	12
16	Revisiting the promise of Bi-layer graded cathodes for improved Li-ion battery performance. Sustainable Energy and Fuels, 2021, 5, 5193-5204.	4.9	10
17	Quantitative characterisation of the layered structure within lithium-ion batteries using ultrasonic resonance. Journal of Energy Storage, 2022, 50, 104585.	8.1	9
18	Degradation of thin-film lithium batteries characterised by improved potentiometric measurement of entropy change. Physical Chemistry Chemical Physics, 2018, 20, 11378-11385.	2.8	5

#	Article	IF	Citations
19	Coilâ€toâ€Stretch Transition of Binder Chains Enabled by â€œNanoâ€Combsâ€to Facilitate Highly Stable SiO_x Anode. Energy and Environmental Materials, 2022, 5, 1310-1316.	12.8	4
20	Highâ€Energy SWCNT Cathode for Aqueous Alâ€Ion Battery Boosted by Multiâ€Ion Intercalation Chemistry (Adv. Energy Mater. 39/2021). Advanced Energy Materials, 2021, 11, 2170155.	19.5	1