

Evan M Erickson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8454800/publications.pdf>

Version: 2024-02-01

28
papers

4,511
citations

331259

21
h-index

476904

29
g-index

29
all docs

29
docs citations

29
times ranked

4956
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Electrochemical Behavior and Thermal Stability of Li and Mn-Rich Cathode Materials Modified by Lithium Sulfate Surface Treatment. <i>Inorganics</i> , 2022, 10, 39.	1.2	4
2	Fluorination of Ni-Rich Lithium-Ion Battery Cathode Materials by Fluorine Gas: Chemistry, Characterization, and Electrochemical Performance in Full Cells. <i>Batteries and Supercaps</i> , 2021, 4, 632-645.	2.4	12
3	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. <i>Chemistry of Materials</i> , 2020, 32, 1002-1010.	3.2	44
4	Enhancement of Electrochemical Performance of Lithium and Manganese-Rich Cathode Materials via Thermal Treatment with SO_2 . <i>Journal of the Electrochemical Society</i> , 2020, 167, 110563.	1.3	21
5	Insights into the Cathode-Electrolyte Interphases of High-Energy-Density Cathodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16451-16461.	4.0	60
6	High-nickel layered oxide cathodes for lithium-based automotive batteries. <i>Nature Energy</i> , 2020, 5, 26-34.	19.8	940
7	Fluorination of Li-Rich Lithium-Ion Battery Cathode Materials by Fluorine Gas: Chemistry, Characterization, and Electrochemical Performance in Half Cells. <i>ChemElectroChem</i> , 2019, 6, 3337-3349.	1.7	35
8	Structural and Electrochemical Aspects of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Materials Doped by Various Cations. <i>ACS Energy Letters</i> , 2019, 4, 508-516.	8.8	348
9	Ammonia Treatment of $0.35\text{Li}_{2/3}\text{MnO}_3 \cdot 0.65\text{LiNi}_{0.35}\text{Mn}_{0.45}\text{Co}_{0.20}\text{O}_2$ Material: Insights from Solid-State NMR Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3773-3779.		
10	From Surface ZrO_2 Coating to Bulk Zr Doping by High Temperature Annealing of Nickel-Rich Lithiated Oxides and Their Enhanced Electrochemical Performance in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701682.	10.2	443
11	Review on Challenges and Recent Advances in the Electrochemical Performance of High Capacity Li- and Mn-Rich Cathode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702397.	10.2	475
12	Review-Recent Advances and Remaining Challenges for Lithium Ion Battery Cathodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6341-A6348.	1.3	143
13	Enhanced capacity and lower mean charge voltage of Li-rich cathodes for lithium ion batteries resulting from low-temperature electrochemical activation. <i>RSC Advances</i> , 2017, 7, 7116-7121.	1.7	25
14	Studies of Spinel-to-Layered Structural Transformations in LiMn_2O_4 Electrodes Charged to High Voltages. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9120-9130.	1.5	26
15	High-Temperature Treatment of Li-Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. <i>Advanced Energy Materials</i> , 2017, 7, 1700708.	10.2	139
16	Review-Recent Advances and Remaining Challenges for Lithium Ion Battery Cathodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6220-A6228.	1.3	581
17	Study of Cathode Materials for Lithium-Ion Batteries: Recent Progress and New Challenges. <i>Inorganics</i> , 2017, 5, 32.	1.2	68
18	Synthesis and Electrochemical Performance of Nickel-Rich Layered-Structure $\text{LiNi}_{0.65}\text{Co}_{0.08}\text{Mn}_{0.27}\text{O}_2$ Cathode Materials Comprising Particles with Ni and Mn Full Concentration Gradients. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1348-A1358.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Stabilizing nickel-rich layered cathode materials by a high-charge cation doping strategy: zirconium-doped $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16073-16084.	5.2	295
20	Li ⁺ Ion Extraction/Insertion of Ni-Rich $\text{Li}_{1-x}(\text{Ni}_y\text{Co}_z\text{Mn}_z)\text{O}_2$ (0.005 x <math>0.03; $y:z=8:1$, $w \approx 1$) Electrodes: In Situ XRD and Raman Spectroscopy Study. <i>ChemElectroChem</i> , 2015, 2, 1479-1486.	1.7	116
21	Studies of Aluminum-Doped $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$: Electrochemical Behavior, Aging, Structural Transformations, and Thermal Characteristics. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1014-A1027.	1.3	121
22	Review "Development of Advanced Rechargeable Batteries: A Continuous Challenge in the Choice of Suitable Electrolyte Solutions. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2424-A2438.	1.3	137
23	Oxygen reduction reaction induced pH-responsive chemo-mechanical hydrogel actuators. <i>Soft Matter</i> , 2015, 11, 7953-7959.	1.2	31
24	A Comparison of Atomistic and Continuum Approaches to the Study of Bonding Dynamics in Electrocatalysis: Microcantilever Stress and in Situ EXAFS Observations of Platinum Bond Expansion Due to Oxygen Adsorption during the Oxygen Reduction Reaction. <i>Analytical Chemistry</i> , 2014, 86, 8368-8375.	3.2	12
25	New Horizons for Conventional Lithium Ion Battery Technology. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3313-3324.	2.1	224
26	Studies of Li and Mn-Rich $\text{Li}_x[\text{MnNiCo}]\text{O}_2$ Electrodes: Electrochemical Performance, Structure, and the Effect of the Aluminum Fluoride Coating. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2220-A2233.	1.3	87
27	In Situ Electrochemical X-ray Absorption Spectroscopy of Oxygen Reduction Electrocatalysis with High Oxygen Flux. <i>Journal of the American Chemical Society</i> , 2012, 134, 197-200.	6.6	79
28	Optimization of a permeation-based microfluidic direct formic acid fuel cell (DFAFC). <i>Electrophoresis</i> , 2011, 32, 947-956.	1.3	4