EvanÂ M Erickson

List of Publications by Year
in descending order

28 papers	4,511 citations	331538 21 h-index	477173 29 g-index
29 all docs	29 docs citations	29 times ranked	4956 citing authors

#	Article	IF	Citations
1	High-nickel layered oxide cathodes for lithium-based automotive batteries. Nature Energy, 2020, 5, 26-34.	19.8	940
2	Reviewâ€"Recent Advances and Remaining Challenges for Lithium Ion Battery Cathodes. Journal of the Electrochemical Society, 2017, 164, A6220-A6228.	1.3	581
3	Review on Challenges and Recent Advances in the Electrochemical Performance of High Capacity Liâ€• and Mnâ€Rich Cathode Materials for Liâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1702397.	10.2	475
4	From Surface ZrO₂ Coating to Bulk Zr Doping by High Temperature Annealing of Nickelâ€Rich Lithiated Oxides and Their Enhanced Electrochemical Performance in Lithium Ion Batteries. Advanced Energy Materials, 2018, 8, 1701682.	10.2	443
5	Structural and Electrochemical Aspects of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Materials Doped by Various Cations. ACS Energy Letters, 2019, 4, 508-516.	8.8	348
6	Stabilizing nickel-rich layered cathode materials by a high-charge cation doping strategy: zirconium-doped LiNi_{0.6}Co_{0.2}Mn_{0.2}O₂. Journal of Materials Chemistry A, 2016, 4, 16073-16084.	5.2	295
7	New Horizons for Conventional Lithium Ion Battery Technology. Journal of Physical Chemistry Letters, 2014, 5, 3313-3324.	2.1	224
8	Reviewâ€"Recent Advances and Remaining Challenges for Lithium Ion Battery Cathodes. Journal of the Electrochemical Society, 2017, 164, A6341-A6348.	1.3	143
9	Highâ€Temperature Treatment of Liâ€Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. Advanced Energy Materials, 2017, 7, 1700708.	10.2	139
10	Reviewâ€"Development of Advanced Rechargeable Batteries: A Continuous Challenge in the Choice of Suitable Electrolyte Solutions. Journal of the Electrochemical Society, 2015, 162, A2424-A2438.	1.3	137
11	Studies of Aluminum-Doped LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂: Electrochemical Behavior, Aging, Structural Transformations, and Thermal Characteristics. Journal of the Electrochemical Society, 2015, 162, A1014-A1027.	1.3	121
12	Li⁺â€Ion Extraction/Insertion of Niâ€Rich Li_{1+<i>x</i>}(Ni_{<i>y</i>}Co_{<i>z</i>}Mn_{<i>z</i>})_{<i>w</i>}O₂ (0.005<<i>x</i><0.03; <i>y</i>:<i>z</i>=8:1, <i>w</i>â‰ˆ1) Electrodes: Inâ€…Situ XRD and Raman Spectroscopy Study. ChemElectroChem, 2015, 2, 1479-1486.	1.7	116
13	Studies of Li and Mn-Rich Li_x[MnNiCo]O₂Electrodes: Electrochemical Performance, Structure, and the Effect of the Aluminum Fluoride Coating. Journal of the Electrochemical Society, 2013, 160, A2220-A2233.	1.3	87
14	In Situ Electrochemical X-ray Absorption Spectroscopy of Oxygen Reduction Electrocatalysis with High Oxygen Flux. Journal of the American Chemical Society, 2012, 134, 197-200.	6.6	79
15	Study of Cathode Materials for Lithium-Ion Batteries: Recent Progress and New Challenges. Inorganics, 2017, 5, 32.	1.2	68
16	Insights into the Cathodeâ€"Electrolyte Interphases of High-Energy-Density Cathodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 16451-16461.	4.0	60
17	Thermodynamics of Antisite Defects in Layered NMC Cathodes: Systematic Insights from High-Precision Powder Diffraction Analyses. Chemistry of Materials, 2020, 32, 1002-1010.	3.2	44
18	Fluorination of Liâ€Rich Lithiumâ€Ionâ€Battery Cathode Materials by Fluorine Gas: Chemistry, Characterization, and Electrochemical Performance in Half Cells. ChemElectroChem, 2019, 6, 3337-3349.	1.7	35

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19	Oxygen reduction reaction induced pH-responsive chemo-mechanical hydrogel actuators. Soft Matter, 2015, 11, 7953-7959.	1.2	31
20	Studies of Spinel-to-Layered Structural Transformations in LiMn₂O₄ Electrodes Charged to High Voltages. Journal of Physical Chemistry C, 2017, 121, 9120-9130.	1.5	26
21	Enhanced capacity and lower mean charge voltage of Li-rich cathodes for lithium ion batteries resulting from low-temperature electrochemical activation. RSC Advances, 2017, 7, 7116-7121.	1.7	25
22	Enhancement of Electrochemical Performance of Lithium and Manganese-Rich Cathode Materials via Thermal Treatment with SO₂. Journal of the Electrochemical Society, 2020, 167, 110563.	1.3	21
23	Synthesis and Electrochemical Performance of Nickel-Rich Layered-Structure LiNi0.65Co0.08Mn0.27O2Cathode Materials Comprising Particles with Ni and Mn Full Concentration Gradients. Journal of the Electrochemical Society, 2016, 163, A1348-A1358.	1.3	19
24	Ammonia Treatment of 0.35Li₂MnO₃Â·0.65LiNi_{0.35}Mn_{0.45}Co_{0.20}O₂ Material: Insights from Solid-State NMR Analysis. Journal of Physical Chemistry C, 2018, 122, 3773-3779.	1.5	19
25	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. Analytical Chemistry, 2014, 86, 8368-8375.	3.2	12
26	Fluorination of Niâ€Rich Lithiumâ€ion Battery Cathode Materials by Fluorine Gas: Chemistry, Characterization, and Electrochemical Performance in Fullâ€cells. Batteries and Supercaps, 2021, 4, 632-645.	2.4	12
27	Optimization of a permeationâ€based microfluidic direct formic acid fuel cell (DFAFC). Electrophoresis, 2011, 32, 947-956.	1.3	4
28	Improved Electrochemical Behavior and Thermal Stability of Li and Mn-Rich Cathode Materials Modified by Lithium Sulfate Surface Treatment. Inorganics, 2022, 10, 39.	1.2	4