

Alexander Louli

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,792
citations

516561

16
h-index

794469

19
g-index

22
all docs

22
docs citations

22
times ranked

1841
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Long cycle life and dendrite-free lithium morphology in anode-free lithium pouch cells enabled by a dual-salt liquid electrolyte. <i>Nature Energy</i> , 2019, 4, 683-689. | 19.8 | 603 |
| 2 | Diagnosing and correcting anode-free cell failure via electrolyte and morphological analysis. <i>Nature Energy</i> , 2020, 5, 693-702. | 19.8 | 303 |
| 3 | Exploring the Impact of Mechanical Pressure on the Performance of Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1291-A1299. | 1.3 | 189 |
| 4 | Volume, Pressure and Thickness Evolution of Li-Ion Pouch Cells with Silicon-Composite Negative Electrodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2689-A2696. | 1.3 | 123 |
| 5 | Measuring the Coulombic Efficiency of Lithium Metal Cycling in Anode-Free Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3321-A3325. | 1.3 | 97 |
| 6 | Hot Formation for Improved Low Temperature Cycling of Anode-Free Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3342-A3347. | 1.3 | 88 |
| 7 | Optimizing Cycling Conditions for Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 020515. | 1.3 | 72 |
| 8 | An Analysis of Artificial and Natural Graphite in Lithium Ion Pouch Cells Using Ultra-High Precision Coulometry, Isothermal Microcalorimetry, Gas Evolution, Long Term Cycling and Pressure Measurements. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3545-A3555. | 1.3 | 53 |
| 9 | Resistance Growth in Lithium-Ion Pouch Cells with $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_{2}$ Positive Electrodes and Proposed Mechanism for Voltage Dependent Charge-Transfer Resistance. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1779-A1784. | 1.3 | 50 |
| 10 | Effects of Fluorinated Carbonate Solvent Blends on High Voltage Parasitic Reactions in Lithium Ion Cells Using OCV Isothermal Microcalorimetry. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2131-A2138. | 1.3 | 30 |
| 11 | Different Positive Electrodes for Anode-Free Lithium Metal Cells. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040517. | 1.3 | 30 |
| 12 | Combinatorial Methods for Improving Lithium Metal Cycling Efficiency. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3000-A3013. | 1.3 | 25 |
| 13 | How do Depth of Discharge, C-rate and Calendar Age Affect Capacity Retention, Impedance Growth, the Electrodes, and the Electrolyte in Li-Ion Cells?. <i>Journal of the Electrochemical Society</i> , 0, , . | 1.3 | 25 |
| 14 | Effect of Substituting LiBF_4 for LiPF_6 in High Voltage Lithium-Ion Cells Containing Electrolyte Additives. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1686-A1692. | 1.3 | 24 |
| 15 | Cycling Performance of NMC811 Anode-Free Pouch Cells with 65 Different Electrolyte Formulations. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120508. | 1.3 | 19 |
| 16 | Surface Area of Lithium-Metal Electrodes Measured by Argon Adsorption. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3250-A3253. | 1.3 | 16 |
| 17 | Effects of Graphite Heat-Treatment Temperature on Single-Crystal $\text{Li}[\text{Ni}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}]\text{O}_2$ /Graphite Pouch Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080543. | 1.3 | 16 |
| 18 | Impact of Graphite Materials on the Lifetime of NMC811/Graphite Pouch Cells: Part II. Long-Term Cycling, Stack Pressure Growth, Isothermal Microcalorimetry, and Lifetime Projection. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010501. | 1.3 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Investigating Parasitic Reactions in Anode-Free Li Metal Cells with Isothermal Microcalorimetry. Journal of the Electrochemical Society, 2021, 168, 060527. | 1.3 | 12 |
| 20 | Synergies for longer cycle life. Nature Energy, 2021, 6, 574-575. | 19.8 | 1 |
| 21 | (Invited) Investigating Failure in Anode-Free Lithium-Metal Pouch Cells with Liquid Electrolytes. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 22 | (Invited) Exploring the Impact of Mechanical Pressure on the Performance of Anode-Free Lithium Metal Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |