

Chao Xu

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,466
citations

361045

20
h-index

500791

28
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31
all docs

31
docs citations

31
times ranked

3458
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Spatially Resolved Operando Synchrotron-Based X-Ray Diffraction Measurements of Ni-Rich Cathodes for Li-Ion Batteries. <i>Frontiers in Chemical Engineering</i> , 2022, 3, . | 1.3 | 9 |
| 2 | Cycle-Induced Interfacial Degradation and Transition-Metal Cross-Over in $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ Graphite Cells. <i>Chemistry of Materials</i> , 2022, 34, 2034-2048. | 3.2 | 28 |
| 3 | Phase Behavior during Electrochemical Cycling of Ni-Rich Cathode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003404. | 10.2 | 153 |
| 4 | Bulk fatigue induced by surface reconstruction in layered Ni-rich cathodes for Li-ion batteries. <i>Nature Materials</i> , 2021, 20, 84-92. | 13.3 | 349 |
| 5 | Transition Metal Dissolution and Degradation in NMC811-Graphite Electrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060518. | 1.3 | 42 |
| 6 | The Complex Role of Aluminium Contamination in Nickel-Rich Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1813-1820. | 2.4 | 7 |
| 7 | The Complex Role of Aluminium Contamination in Nickel-Rich Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1783-1784. | 2.4 | 0 |
| 8 | An Effective Way to Stabilize Ni-Rich Layered Cathodes. <i>CheM</i> , 2020, 6, 3165-3167. | 5.8 | 8 |
| 9 | Co_3O_4 -Catalyzed LiOH Chemistry in Li^{10}O_2 Batteries. <i>ACS Energy Letters</i> , 2020, 5, 3681-3691. | 8.8 | 37 |
| 10 | Effect of Anode Slippage on Cathode Cutoff Potential and Degradation Mechanisms in Ni-Rich Li-Ion Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100253. | 2.8 | 42 |
| 11 | Operando NMR of NMC811/Graphite Lithium-Ion Batteries: Structure, Dynamics, and Lithium Metal Deposition. <i>Journal of the American Chemical Society</i> , 2020, 142, 17447-17456. | 6.6 | 79 |
| 12 | On the Capacity Losses Seen for Optimized Nano-Si Composite Electrodes in Li-Metal Half-Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901608. | 10.2 | 32 |
| 13 | Unraveling and Mitigating the Storage Instability of Fluoroethylene Carbonate-Containing LiPF_6 Electrolytes To Stabilize Lithium Metal Anodes for High-Temperature Rechargeable Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 4925-4935. | 2.5 | 49 |
| 14 | Excess Lithium in Transition Metal Layers of Epitaxially Grown Thin Film Cathodes of Li_2MnO_3 Leads to Rapid Loss of Covalency during First Battery Cycle. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28519-28526. | 1.5 | 19 |
| 15 | Evolution of Structure and Lithium Dynamics in $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ (NMC811) Cathodes during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2019, 31, 2545-2554. | 3.2 | 228 |
| 16 | Conducting polymer paper-derived separators for lithium metal batteries. <i>Energy Storage Materials</i> , 2018, 13, 283-292. | 9.5 | 64 |
| 17 | The Role of LiTDI Additive in $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ /Graphite Lithium-Ion Batteries at Elevated Temperatures. <i>Journal of the Electrochemical Society</i> , 2018, 165, A40-A46. | 1.3 | 16 |
| 18 | Conducting Polymer Paper-Derived Mesoporous 3D N-doped Carbon Current Collectors for Na and Li Metal Anodes: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23352-23363. | 1.5 | 27 |

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|----|---|-----|-----------|
| 19 | Towards Li-Ion Batteries Operating at 80 °C: Ionic Liquid versus Conventional Liquid Electrolytes. <i>Batteries</i> , 2018, 4, 2. | 2.1 | 14 |
| 20 | LiTfDf: A Highly Efficient Additive for Electrolyte Stabilization in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 2254-2263. | 3.2 | 69 |
| 21 | Modelling the morphological background to capacity fade in Si-based lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 258, 755-763. | 2.6 | 19 |
| 22 | SEI Formation and Interfacial Stability of a Si Electrode in a LiTfDf-Salt Based Electrolyte with FEC and VC Additives for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15758-15766. | 4.0 | 105 |
| 23 | A hard X-ray photoelectron spectroscopy study on the solid electrolyte interphase of a lithium 4,5-dicyano-2-(trifluoromethyl)imidazolide based electrolyte for Si-electrodes. <i>Journal of Power Sources</i> , 2016, 301, 105-112. | 4.0 | 33 |
| 24 | Conducting Polymer Paper-Based Cathodes for High-Areal-Capacity Lithium-Organic Batteries. <i>Energy Technology</i> , 2015, 3, 563-569. | 1.8 | 21 |
| 25 | At the polymer electrolyte interfaces: the role of the polymer host in interphase layer formation in Li-batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13994-14000. | 5.2 | 101 |
| 26 | Flexible freestanding Cladophora nanocellulose paper based Si anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14109-14115. | 5.2 | 91 |
| 27 | A high pressure x-ray photoelectron spectroscopy experimental method for characterization of solid-liquid interfaces demonstrated with a Li-ion battery system. <i>Review of Scientific Instruments</i> , 2015, 86, 044101. | 0.6 | 34 |
| 28 | Improved Performance of the Silicon Anode for Li-Ion Batteries: Understanding the Surface Modification Mechanism of Fluoroethylene Carbonate as an Effective Electrolyte Additive. <i>Chemistry of Materials</i> , 2015, 27, 2591-2599. | 3.2 | 494 |
| 29 | Interface layer formation in solid polymer electrolyte lithium batteries: an XPS study. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7256-7264. | 5.2 | 296 |