

Caleb Stetson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7529823/publications.pdf>

Version: 2024-02-01

18
papers

490
citations

687363

13
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

553
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. ACS Energy Letters, 2021, 6, 1684-1693.	17.4	87
2	Three-dimensional electronic resistivity mapping of solid electrolyte interphase on Si anode materials. Nano Energy, 2019, 55, 477-485.	16.0	56
3	Temperature-Dependent Solubility of Solid Electrolyte Interphase on Silicon Electrodes. ACS Energy Letters, 2019, 4, 2770-2775.	17.4	45
4	Enhanced Interfacial Stability of Si Anodes for Li-Ion Batteries via Surface SiO ₂ Coating. ACS Applied Energy Materials, 2020, 3, 8842-8849.	5.1	38
5	Surface SiO ₂ Thickness Controls Uniform-to-Localized Transition in Lithiation of Silicon Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 27017-27028.	8.0	37
6	Fabrication of high-performance gas-diffusion-electrode based membrane-electrode assemblies. Journal of Power Sources, 2020, 450, 227581.	7.8	33
7	Effect of Water Concentration in LiPF ₆ -Based Electrolytes on the Formation, Evolution, and Properties of the Solid Electrolyte Interphase on Si Anodes. ACS Applied Materials & Interfaces, 2020, 12, 49563-49573.	8.0	27
8	Microscopic Observation of Solid Electrolyte Interphase Bilayer Inversion on Silicon Oxide. ACS Energy Letters, 2020, 5, 3657-3662.	17.4	26
9	Mechanical Properties and Chemical Reactivity of Li _x SiO _y Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 38558-38564.	8.0	21
10	Intrinsic Properties of Individual Inorganic Silicon-Electrolyte Interphase Constituents. ACS Applied Materials & Interfaces, 2019, 11, 46993-47002.	8.0	21
11	Evolution of solid electrolyte interphase and active material in the silicon wafer model system. Journal of Power Sources, 2021, 482, 228946.	7.8	19
12	Thermodynamics of solvent-driven water extraction from hypersaline brines using dimethyl ether. Chemical Engineering Journal, 2022, 434, 134391.	12.7	17
13	Examining CO ₂ as an Additive for Solid Electrolyte Interphase Formation on Silicon Anodes. Journal of the Electrochemical Society, 2021, 168, 030534.	2.9	16
14	Modeling solution vapor equilibria with solvation and solute assembly. Journal of Molecular Liquids, 2021, 336, 116272.	4.9	12
15	Improving Interface Stability of Si Anodes by Mg Coating in Li-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11534-11539.	5.1	10
16	Solvent-driven fractional crystallization for atom-efficient separation of metal salts from permanent magnet leachates. Nature Communications, 2022, 13, .	12.8	10
17	Trap-Assisted Dopant Compensation Prevents Shunting in Poly-Si Passivating Interdigitated Back Contact Silicon Solar Cells. ACS Applied Energy Materials, 2021, 4, 10774-10782.	5.1	8
18	Three-Dimensional Mapping of Resistivity and Microstructure of Composite Electrodes for Lithium-Ion Batteries. Nano Letters, 2020, 20, 8081-8088.	9.1	7