

Bing Joe Hwang

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

1,325
citations

840776

11
h-index

1125743

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Direct <i>in situ</i> Observation of Li_2O Evolution on Li-Rich High-Capacity Cathode Material, $\text{Li}[\text{Ni}_{1-x}\text{Li}_{2x}/3\text{Mn}(2-x)/3]\text{O}_2$ (0 ≤ x ≤ 0.5). <i>Chemistry of Materials</i> , 2014, 26, 6919-6927.	13.7	393
2	<i>in situ</i> analytical techniques for battery interface analysis. <i>Chemical Society Reviews</i> , 2018, 47, 736-851.	38.1	355
3	Visualization of Lithium Plating and Stripping via <i>in Operando</i> Transmission X-ray Microscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7761-7766.	3.1	123
4	Decoupling the origins of irreversible coulombic efficiency in anode-free lithium metal batteries. <i>Nature Communications</i> , 2021, 12, 1452.	12.8	111
5	Chemical stability of sulfide solid-state electrolytes: stability toward humid air and compatibility with solvents and binders. <i>Energy and Environmental Science</i> , 2022, 15, 991-1033.	30.8	100
6	Understanding the Role of Ni in Stabilizing the Lithium-Rich High-Capacity Cathode Material $\text{Li}[\text{Ni}_x\text{Li}_{1-2x}/3\text{Mn}(2-x)/3]\text{O}_2$ (0 ≤ x ≤ 0.5). <i>Chemistry of Materials</i> , 2014, 26, 6919-6927.	6.7	72
7	Highly Reversible Zn Metal Anode Stabilized by Dense and Anion-Derived Passivation Layer Obtained from Concentrated Hybrid Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2022, 32, 2103959.	14.9	48
8	Multifunctional Properties of Al_2O_3 /Polyacrylonitrile Composite Coating on Cu to Suppress Dendritic Growth in Anode-Free Li-Metal Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 7666-7679.	5.1	41
9	Revealing the Impact of Film-Forming Electrolyte Additives on Lithium Metal Batteries via Solid-State NMR/MRI Analysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 252-265.	3.1	25
10	Bridging role of ethyl methyl carbonate in fluorinated electrolyte on ionic transport and phase stability for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 494, 229760.	7.8	20
11	Effects of a Thermally Electrochemically Activated $\hat{\text{P}}\text{-PVDF}$ Fiber on Suppression of Li Dendrite Growth for Anode-Free Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3240-3248.	5.1	16
12	Ion-selective aramid nanofiber-based Janus separators fabricated by a dry-wet phase inversion approach for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5317-5327.	10.3	11
13	Roles of film-forming additives in diluted and concentrated electrolytes for lithium metal batteries: A density functional theory-based approach. <i>Electrochemistry Communications</i> , 2020, 113, 106685.	4.7	10