

Sebastian Maletti

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Understanding Component-Specific Contributions and Internal Dynamics in Silicon/Graphite Blended Electrodes for High-Energy Lithium-Ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	23
2	Understanding Li Plating and Stripping Behavior in Zero-Excess Li Metal Batteries Using Operando Dilatometry. Journal of the Electrochemical Society, 2022, 169, 030543.	1.3	14
3	Laboratory X-ray Microscopy Study of Microcrack Evolution in a Novel Sodium Iron Titanate-Based Cathode Material for Li-Ion Batteries. Crystals, 2022, 12, 3.	1.0	3
4	Electrochemical Patterning of Cu Current Collectors: An Enabler for Pure Silicon Anodes in High-Energy Lithium-Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	1.9	6
5	Operation Mechanism in Hybrid Mg-Li Batteries with TiNb_2O_7 Allowing Stable High-Rate Cycling. ACS Applied Materials & Interfaces, 2021, 13, 6309-6321.	4.0	13
6	A Highly Conductive Gel Polymer Electrolyte for Li-Mg Hybrid Batteries. ACS Applied Energy Materials, 2021, 4, 1906-1914.	2.5	3
7	Electrochemical Characterization of Battery Materials in 2-Electrode Half-Cell Configuration: A Balancing Act Between Simplicity and Pitfalls. Batteries and Supercaps, 2021, 4, 1310-1322.	2.4	22
8	Molecular Engineering Approaches to Fabricate Artificial Solid-Electrolyte Interphases on Anodes for Li-Ion Batteries: A Critical Review. Advanced Energy Materials, 2021, 11, 2101173.	10.2	50
9	Structural Aspects of P2 -Type $\text{Na}_{0.67}\text{Mn}_{0.6}\text{Ni}_{0.2}\text{Li}_{0.2}\text{O}_2$ (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodium-Ion Batteries. Advanced Functional Materials, 2021, 31, 2102939.	7.8	35
10	Diethylzinc-Assisted Atomic Surface Reduction to Stabilize Li and Mn-Rich NCM. ACS Applied Materials & Interfaces, 2021, 13, 44470-44478.	4.0	3
11	From Lithium-Metal toward Anode-Free Solid-State Batteries: Current Developments, Issues, and Challenges. Advanced Functional Materials, 2021, 31, 2106608.	7.8	98
12	Synthesis of $(\text{Li}_2\text{Fe}_{1-y}\text{Mn}_y)\text{SO}$ Antiperovskites with Comprehensive Investigations of $(\text{Li}_2\text{Fe}_{0.5}\text{Mn}_{0.5})\text{SO}$ as Cathode in Li-ion Batteries. Inorganic Chemistry, 2020, 59, 15626-15635.	1.9	10
13	In-Depth Study of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Performing beyond Conventional Operating Conditions. ACS Applied Materials & Interfaces, 2020, 12, 37227-37238.	4.0	12
14	LiV_3O_8 -Based Functional Separator Coating as Effective Polysulfide Mediator for Lithium-Sulfur Batteries. ACS Applied Energy Materials, 2020, 3, 2893-2899.	2.5	27
15	TiNb_2O_7 and $\text{VNb}_9\text{O}_{25}$ of ReO_3 Type in Hybrid Mg-Li Batteries: Electrochemical and Interfacial Insights. Journal of Physical Chemistry C, 2020, 124, 25239-25248.	1.5	5
16	Comparison of Layered $\text{Li}(\text{Li}_{0.2}\text{Rh}_{0.8})\text{O}_2$ and LiRhO_2 upon Li Removal: Stabilizing Effect of Li Substitution. Inorganic Chemistry, 2020, 59, 9108-9115.	1.9	0
17	<i>Operando</i> Studies on the $\text{NaNi}_{0.5}\text{Ti}_{0.5}\text{O}_2$ Cathode for Na-Ion Batteries: Elucidating Titanium as a Structure Stabilizer. ACS Applied Materials & Interfaces, 2019, 11, 33923-33930.	4.0	23
18	Studies on Full Na-Ion Batteries with a Hard Carbon Anode and Oxide Cathode Materials. ECS Meeting Abstracts, 2019, . .	0.0	0

#	ARTICLE	IF	CITATIONS
19	Lattice Analysis By Synchrotron Powder Diffraction on High Voltage Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$. ECS Meeting Abstracts, 2019, , .	0.0	0
20	Application of the Hybrid-Ion Battery Concept to Selected Oxide Systems. ECS Meeting Abstracts, 2019, , .	0.0	0
21	Electrochemical behavior of LiV_3O_8 positive electrode in hybrid Li,Na ⁺ ion batteries. Journal of Power Sources, 2018, 373, 1-10.	4.0	15
22	Irreversible Made Reversible: Increasing the Electrochemical Capacity by Understanding the Structural Transformations of $\text{Na}_{0.5}\text{Co}_{0.5}\text{Ti}_{0.5}\text{O}_2$. ACS Applied Materials & Interfaces, 2018, 10, 36108-36119.	4.0	10
23	Operando Studies of Antiperovskite Lithium Battery Cathode Material $(\text{Li}_2\text{Fe})\text{SO}$. ACS Applied Energy Materials, 2018, 1, 6593-6599.	2.5	15
24	One-Pot Synthesis of Graphene-Sulfur Composites for Li-S Batteries: Influence of Sulfur Precursors. Journal of Carbon Research, 2018, 4, 2.	1.4	7