

# Bastian Heidrich

## List of Publications by Year in descending order

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12  
papers

441  
citations

1170033

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1336881

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citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Role of Commercial Separators and Their Reactivity toward $\text{LiPF}_6$ on the Failure Mechanism of High-Voltage NCM523    Graphite Lithium Ion Cells. <i>Advanced Energy Materials</i> , 2022, 12, 2102599.	10.2	35
2	Comparative X-ray Photoelectron Spectroscopy Study of the SEI and CEI in Three Different Lithium Ion Cell Formats. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030533.	1.3	8
3	Opportunities and Challenges of $\text{Li}_2\text{C}_4\text{O}_4$ as Pre-Lithiation Additive for the Positive Electrode in NMC622    Silicon/Graphite Lithium Ion Cells. <i>Advanced Science</i> , 2022, 9, .	5.6	20
4	Understanding the Outstanding High-Voltage Performance of NCM523    Graphite Lithium Ion Cells after Elimination of Ethylene Carbonate Solvent from Conventional Electrolyte. <i>Advanced Energy Materials</i> , 2021, 11, 2003738.	10.2	86
5	On the Beneficial Impact of $\text{Li}_2\text{CO}_3$ as Electrolyte Additive in NCM523    Graphite Lithium Ion Cells Under High-Voltage Conditions. <i>Advanced Energy Materials</i> , 2021, 11, 2003756.	10.2	59
6	Understanding the Effectiveness of Phospholane Electrolyte Additives in Lithium-Ion Batteries under High-Voltage Conditions. <i>ChemElectroChem</i> , 2021, 8, 972-982.	1.7	5
7	Graphite Lithium-Ion Cells: On the Beneficial Impact of $\text{Li}_2\text{CO}_3$ as Electrolyte Additive in NCM523    Graphite Lithium Ion Cells Under High-Voltage Conditions ( <i>Adv. Energy Mater.</i> ) Tj ETQq11b02784314 rgBT /Dv		
8	Enabling Aqueous Processing for $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ -Based Positive Electrodes in Lithium-Ion Batteries by Applying Lithium-Based Processing Additives. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100075.	2.8	11
9	Quantitative determination of solid electrolyte interphase and cathode electrolyte interphase homogeneity in multi-layer lithium ion cells. <i>Journal of Energy Storage</i> , 2021, 44, 103208.	3.9	17
10	$\text{Al}_2\text{O}_3$ protective coating on silicon thin film electrodes and its effect on the aging mechanisms of lithium metal and lithium ion cells. <i>Journal of Energy Storage</i> , 2021, 44, 103479.	3.9	13
11	Three-Component, Interrupted Radical Heck/Allylic Substitution Cascade Involving Unactivated Alkyl Bromides. <i>Journal of the American Chemical Society</i> , 2020, 142, 10173-10183.	6.6	135
12	Unravelling charge/discharge and capacity fading mechanisms in dual-graphite battery cells using an electron inventory model. <i>Energy Storage Materials</i> , 2019, 21, 414-426.	9.5	50