

Nicholas V Faenza

List of Publications by Year in descending order

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758635

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1120
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#	ARTICLE	IF	CITATIONS
1	Editors' Choice "Growth of Ambient Induced Surface Impurity Species on Layered Positive Electrode Materials and Impact on Electrochemical Performance. Journal of the Electrochemical Society, 2017, 164, A3727-A3741.	1.3	152
2	Evolution of the Electrode "Electrolyte Interface of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Electrodes Due to Electrochemical and Thermal Stress. Chemistry of Materials, 2018, 30, 958-969.	3.2	71
3	Two dimensional silicon nanowalls for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 6051-6057.	5.2	70
4	Electrolyte-Induced Surface Transformation and Transition-Metal Dissolution of Fully Delithiated $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$. Langmuir, 2017, 33, 9333-9353.	1.6	70
5	Revisiting the charge compensation mechanisms in $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ systems. Materials Horizons, 2019, 6, 2112-2123.	6.4	62
6	Surface Structural and Chemical Evolution of Layered $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ (NCA) under High Voltage and Elevated Temperature Conditions. Chemistry of Materials, 2018, 30, 8431-8445.	3.2	48
7	How Bulk Sensitive is Hard X-ray Photoelectron Spectroscopy: Accounting for the Cathode "Electrolyte Interface when Addressing Oxygen Redox. Journal of Physical Chemistry Letters, 2020, 11, 2106-2112.	2.1	36
8	Distinction between Intrinsic and X-ray-Induced Oxidized Oxygen States in Li-Rich 3d Layered Oxides and LiAlO_2 . Journal of Physical Chemistry C, 2019, 123, 13201-13207.	1.5	33
9	Phase Evolution and Degradation Modes of $\text{Li}_{1-x}\text{Ni}_x\text{Al}_z\text{Co}_y\text{O}_2$ Electrodes Cycled Near Complete Delithiation. Chemistry of Materials, 2018, 30, 7545-7574.	3.0	30
10	Surface Chemistry Dependence on Aluminum Doping in Ni-rich $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{Al}_y\text{O}_2$ Cathodes. Scientific Reports, 2019, 9, 17720.	1.6	25
11	Atomic Structure of Surface-Densified Phases in Ni-Rich Layered Compounds. ACS Applied Materials & Interfaces, 2021, 13, 17478-17486.	4.0	13
12	Fundamental insights about interlayer cation migration in Li-ion electrodes at high states of charge. Journal of Materials Chemistry A, 2019, 7, 11996-12007.	5.2	12
13	Mapping Competitive Reduction upon Charging in $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Primary Particles. Chemistry of Materials, 2020, 32, 6161-6175.	3.2	5
14	Dynamic Transformations of Layered Compounds at Full Delithiation Due to Surface Triggered Reactions. ECS Meeting Abstracts, 2016, , .	0.0	0