

Deciphering the Cathodeâ€™Electrolyte Interfacial Chemistry in Materials

Advanced Energy Materials

8, 1801975

DOI: [10.1002/aenm.201801975](https://doi.org/10.1002/aenm.201801975)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO ₂ Cathode for Li-ion and Li-metal Batteries. <i>Joule</i> , 2019, 3, 2550-2564.	11.7	167
2	An Ordered P ₂ /P ₃ Composite Layered Oxide Cathode with Long Cycle Life in Sodium-Ion Batteries. , 2019, 1, 573-581.		33
3	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37885-37891.	4.0	33
4	Water-Processable P ₂ -Na _{0.67} Ni _{0.22} Cu _{0.11} Mn _{0.56} Ti _{0.11} O ₂ Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A251-A257.		20
5	Understanding Challenges of Cathode Materials for Sodium-Ion Batteries using Synchrotron-Based X-Ray Absorption Spectroscopy. <i>Batteries and Supercaps</i> , 2019, 2, 842-851.	2.4	23
6	Electrolytes and Electrolyte/Electrode Interfaces in Sodium-Ion Batteries: From Scientific Research to Practical Application. <i>Advanced Materials</i> , 2019, 31, e1808393.	11.1	264
7	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi _{0.045} Cu _{0.185} Fe _{0.265} Mn _{0.505} O ₂ Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11428-11435.	1.5	13
8	Dual Interphase Layers In Situ Formed on a Manganese-Based Oxide Cathode Enable Stable Potassium Storage. <i>CheM</i> , 2019, 5, 3220-3231.	5.8	79
9	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. <i>Chemistry of Materials</i> , 2019, 31, 9769-9776.	3.2	110
10	Atomic layer deposition of Al ₂ O ₃ on P ₂ -Na _{0.5} Mn _{0.5} Co _{0.5} O ₂ as interfacial layer for high power sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 467-477.	5.0	25
11	Understanding the Capacity Fading Mechanisms of O ₃ -Type Na[Ni _{0.5} Mn _{0.5}]O ₂ Cathode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001609.	10.2	59
12	Controlling at Elevated Temperature the Sodium Intercalation Capacity and Rate Capability of P ₃ Na _{2/3} Ni _{1/2} Mn _{1/2} O ₂ through the Selective Substitution of Nickel with Magnesium. <i>Batteries and Supercaps</i> , 2020, 3, 1329-1340.	2.4	12
13	Advances in materials for all- <i>climate</i> sodium-ion batteries. <i>EcoMat</i> , 2020, 2, e12043.	6.8	32
14	Defect and structural evolution under high-energy ion irradiation informs battery materials design for extreme environments. <i>Nature Communications</i> , 2020, 11, 4548.	5.8	28
15	The sensitive surface chemistry of Co-free, Ni-rich layered oxides: identifying experimental conditions that influence characterization results. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17487-17497.	5.2	41
16	Delineating the Capacity Fading Mechanisms of Na(Ni _{0.3} Fe _{0.4} Mn _{0.3})O ₂ at Higher Operating Voltages in Sodium-Ion Cells. <i>Chemistry of Materials</i> , 2020, 32, 7389-7396.	3.2	25
17	High-Voltage-Driven Surface Structuring and Electrochemical Stabilization of Ni-Rich Layered Cathode Materials for Li Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000521.	10.2	90
18	Insights into the Enhanced Cycle and Rate Performances of the F-Substituted P ₂ -Type Oxide Cathodes for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000135.	10.2	57

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19	Recent progresses on alloy-based anodes for potassium-ion batteries. <i>Rare Metals</i> , 2020, 39, 989-1004.	3.6	64
20	Construction nasicon-type $\text{NaTi}_2(\text{PO}_4)_3$ nanoshell on the surface of P2-type $\text{Na}_{0.67}\text{Co}_{0.2}\text{Mn}_{0.8}\text{O}_2$ cathode for superior room/low-temperature sodium storage. <i>Chemical Engineering Journal</i> , 2020, 402, 126181.	6.6	40
21	Failure analysis with a focus on thermal aspect towards developing safer Na-ion batteries*. <i>Chinese Physics B</i> , 2020, 29, 048201.	0.7	26
22	Manipulating Layered P2@P3 Integrated Spinel Structure Evolution for High-Performance Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 9385-9390.	1.6	26
23	Manipulating Layered P2@P3 Integrated Spinel Structure Evolution for High-Performance Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9299-9304.	7.2	84
24	Effect of the interfacial protective layer on the $\text{NaFe}_{0.5}\text{Ni}_{0.5}\text{O}_2$ cathode for rechargeable sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13964-13970.	5.2	19
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27	Mitigation of Jahn-Teller distortion and Na ⁺ /vacancy ordering in a distorted manganese oxide cathode material by Li substitution. <i>Chemical Science</i> , 2021, 12, 1062-1067.	3.7	64
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29	Multiprincipal Component P2- $\text{Na}_{0.6}\text{(Ti}_{0.2}\text{Mn}_{0.2}\text{Co}_{0.2}\text{Ni}_{0.2}\text{Ru}_{0.2}\text{)O}_2$ as a High-Rate Cathode for Sodium-Ion Batteries. <i>Jacs Au</i> , 2021, 1, 98-107.	1.6	22
30	Direct observation of the in-plane crack formation of $\text{O}_3\text{-Na}_{0.8}\text{Mg}_{0.2}\text{Fe}_{0.4}\text{Mn}_{0.4}\text{O}_2$ due to oxygen gas evolution for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14074-14084.	5.2	16
31	Synergistic Dual-Additive Electrolyte for Interphase Modification to Boost Cyclability of Layered Cathode for Sodium Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2010500.	7.8	43
32	P2-Type $\text{Na}_{0.67}\text{Mn}_{0.5}\text{Fe}_{0.5}\text{O}_2$ Synthesized by Solution Combustion Method as an Efficient Cathode Material for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030512.	1.3	6
33	Enhanced Cycling Stability of O3-Type $\text{Na}[\text{Ni}_{0.5}\text{Mn}_{0.5}]\text{O}_2$ Cathode through Sn Addition for Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6593-6600.	1.5	14
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38	Reversible Mn/Cr dual redox in cation-disordered Li-excess cathode materials for stable lithium ion batteries. <i>Acta Materialia</i> , 2021, 212, 116935.	3.8	16
39	The origin of impedance rise in Ni-Rich positive electrodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 498, 229885.	4.0	12
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47	Spinel/Post-spinel engineering on layered oxide cathodes for sodium-ion batteries. <i>EScience</i> , 2021, 1, 13-27.	25.0	194
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56	Molten-Salt Synthesis of O3-Type Layered Oxide Single Crystal Cathodes with Controlled Morphology towards Long-Life Sodium-Ion Batteries. Small, 2022, 18, e2106927.	5.2	24
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