

Muhammad Mominur Rahman

List of Publications by Year in descending order

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docs citations

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times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemomechanical behaviors of layered cathode materials in alkali metal ion batteries. Journal of Materials Chemistry A, 2018, 6, 21859-21884.	5.2	139
2	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, 11, 83.	5.8	129
3	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. Chemistry of Materials, 2019, 31, 9769-9776.	3.2	110
4	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. ACS Applied Materials & Interfaces, 2018, 10, 23842-23850.	4.0	52
5	Oxygen Redox Chemistry in Rechargeable Li-Ion and Na-Ion Batteries. Matter, 2021, 4, 490-527.	5.0	47
6	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. Energy and Environmental Science, 2018, 11, 2496-2508.	15.6	45
7	An Ordered P2/P3 Composite Layered Oxide Cathode with Long Cycle Life in Sodium-Ion Batteries. , 2019, 1, 573-581.		33
8	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. ACS Applied Materials & Interfaces, 2019, 11, 37885-37891.	4.0	33
9	Surface transformation by a "cocktail" solvent enables stable cathode materials for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 2758-2766.	5.2	28
10	Defect and structural evolution under high-energy ion irradiation informs battery materials design for extreme environments. Nature Communications, 2020, 11, 4548.	5.8	28
11	Probing Dopant Redistribution, Phase Propagation, and Local Chemical Changes in the Synthesis of Layered Oxide Battery Cathodes. Advanced Energy Materials, 2021, 11, .	10.2	28
12	Effects of solvent formulations in electrolytes on fast charging of Li-ion cells. Electrochimica Acta, 2020, 353, 136453.	2.6	23
13	Water-Processable P2-Na _{0.67} Ni _{0.22} Cu _{0.11} Mn _{0.56} Ti _{0.11} O ₂ Cathode Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A251-A257.		20
14	Reversible Mn/Cr dual redox in cation-disordered Li-excess cathode materials for stable lithium ion batteries. Acta Materialia, 2021, 212, 116935.	3.8	16
15	Chemical Modulation of Local Transition Metal Environment Enables Reversible Oxygen Redox in Mn-Based Layered Cathodes. ACS Energy Letters, 2021, 6, 2882-2890.	8.8	15
16	A kaolinite/TiO ₂ /ZnO-based novel ternary composite for photocatalytic degradation of anionic azo dyes. Bulletin of Materials Science, 2020, 43, 1.	0.8	14
17	Mapping Lattice Distortions in LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials. ACS Energy Letters, 2022, 7, 690-695.	8.8	14
18	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. Journal of Physical Chemistry C, 2019, 123, 11428-11435.	1.5	13

#	ARTICLE	IF	CITATIONS
19	Facile synthesis of TiO ₂ /Chitosan nanohybrid for adsorption-assisted rapid photodegradation of an azo dye in water. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 133, 1121.	0.8	12
20	Bulk and surface structural changes in high nickel cathodes subjected to fast charging conditions. <i>Chemical Communications</i> , 2020, 56, 6973-6976.	2.2	11
21	Resolving Charge Distribution for Compositionally Heterogeneous Battery Cathode Materials. <i>Nano Letters</i> , 2022, 22, 1278-1286.	4.5	7
22	Fabrication of Nanostructured Kaolinite Doped Composite Films from Silicone Rubber with Enhanced Properties. <i>Journal of Composites Science</i> , 2019, 3, 50.	1.4	1
23	Mechanistic Insights into the Interplay between Ion Intercalation and Water Electrolysis in Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12130-12139.	4.0	1