Muhammad Mominur Rahman

List of Publications by Year in descending order

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23 papers

821 citations

623188 14 h-index 22 g-index

23 all docs

23 docs citations

times ranked

23

1105 citing authors

#	Article	IF	Citations
1	Resolving Charge Distribution for Compositionally Heterogeneous Battery Cathode Materials. Nano Letters, 2022, 22, 1278-1286.	4.5	7
2	Mapping Lattice Distortions in LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials. ACS Energy Letters, 2022, 7, 690-695.	8.8	14
3	Mechanistic Insights into the Interplay between Ion Intercalation and Water Electrolysis in Aqueous Batteries. ACS Applied Materials & Electrolysis in Aqueous Robbit 12130-12139.	4.0	1
4	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
5	Oxygen Redox Chemistry in Rechargeable Li-Ion and Na-Ion Batteries. Matter, 2021, 4, 490-527.	5.0	47
6	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
7	Facile synthesis of TiO2/Chitosan nanohybrid for adsorption-assisted rapid photodegradation of an azo dye in water. Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 1121.	0.8	12
8	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
9	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, 11, 83.	5 . 8	129
10	A kaolinite/\$\$hbox {TiO}_{2}\$\$/ZnO-based novel ternary composite for photocatalytic degradation of anionic azo dyes. Bulletin of Materials Science, 2020, 43, 1.	0.8	14
11	Defect and structural evolution under high-energy ion irradiation informs battery materials design for extreme environments. Nature Communications, 2020, 11, 4548.	5. 8	28
12	Bulk and surface structural changes in high nickel cathodes subjected to fast charging conditions. Chemical Communications, 2020, 56, 6973-6976.	2.2	11
13	Effects of solvent formulations in electrolytes on fast charging of Li-ion cells. Electrochimica Acta, 2020, 353, 136453.	2.6	23
14	An Ordered P2/P3 Composite Layered Oxide Cathode with Long Cycle Life in Sodium-Ion Batteries. , 2019, 1, 573-581.		33
15	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. ACS Applied Materials & Samp; Interfaces, 2019, 11, 37885-37891.	4.0	33
16	Water-Processable P2-Na _{0.67} Ni _{0.22} Cu _{0.11} Mn _{0.56} Ti _{0.11} O _{Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A251-A257.}	>2< ქ≲ ub>C	Cath xx de
17	Fabrication of Nanostructured Kaolinite Doped Composite Films from Silicone Rubber with Enhanced Properties. Journal of Composites Science, 2019, 3, 50.	1.4	1
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	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. Chemistry of Materials, 2019, 31, 9769-9776.	3.2	110
20	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
21	Chemomechanical behaviors of layered cathode materials in alkali metal ion batteries. Journal of Materials Chemistry A, 2018, 6, 21859-21884.	5.2	139
22	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
23	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. ACS Applied Materials & Samp; Interfaces, 2018, 10, 23842-23850.	4.0	52