

Effect of VC additive on MFA-based electrolyte in Li-ion batteries Dependence of cell resistivity on electrolyte thickness in solid oxide fuel cells Electrolyte Development for High-Performance Li ...

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The logical design of nanoparticles allows for exceptionally high surface areas. The majority of consumer gadgets and transportation systems rely on lithium-ion batteries (LIBs). Over the ...

Harnessing Rapid Li + /H d+ Exchange within the Electric Double Layer for High Performance Li-Ion Batteries Engineering Research Center of the Ministry of Education for Advanced Battery ...

The growth of lithium-ion batteries is driven by factors such as the rising demand for LFP and NMC lithium-ion batteries (chemistry type) in plug-in vehicles and the growing adoption of lithium-ion batteries in renewable energy ...

Ga-based liquid metals (LMs) are effective materials for maintaining the structural stability of Li-ion battery electrodes because of their conductive, soft, self-healing, and nontoxic properties. ...

Safe electrolytes operable over a wide temperature range are essential for lithium metal batteries, offering high redox interfacial stability, fast ion transport kinetics, and inherent safety. However, ...

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In the present study, we adopt a mechanical approach for extending battery lifetime by imposing stack pressure on the exterior of a commercial prismatic cell. We demonstrate a significant ...

The concept of Li/S battery was first introduced in the 1960s [2], initially as a primary (non-rechargeable) battery. During (discharge) operation, the lithium anode undergoes oxidation, ...

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We have developed a versatile mathematical framework integrated with an automated reactor system to design and reify highly customizable full concentration gradient (FCG) in high-nickel ...

Cathode materials for lithium-ion batteries typically possess octahedral coordination, which may exclude other possible solutions to degradation during deep cycling. A series of tetrahedral ...

Structural and electrical studies of NASICON material for NO_x sensing Effect of VC additive on MFA-based electrolyte in Li-ion batteries Electrolyte Development for High-Performance Li-Ion ...

A team of Chinese researchers has made a groundbreaking breakthrough to revive aging lithium batteries by injecting a "shot" of lithium ions, potentially extending their lifespan from the typical 6-8 years or 1,000-1,500 ...

Li-ion battery, or LIB, is a rechargeable battery used in laptops, cellphones, and hybrid & electric cars. Li-ion battery usage is growing across various applications owing to its lightweight and high energy density, which ...



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