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Rechargeable zinc (Zn) metal batteries are promising for large-scale energy storage due to their safety and affordability. However, Zn anodes in aqueous electrolytes suffer from uneven deposition and side reactions that impair ...

-28-MSE 491/893 Electrified Transportation SystemsBatteries - battery management system (BMS) Source: Electric Powertrain, Wiley o Monitor voltage, current, power and temperature; o ...

A fast-charging graphite anode (C@MEG) with rapid surface-to-bulk lithium transport and low interfacial resistance is demonstrated for Ah-level lithium-ion pouch batteries, offering high ...

As a result, unprecedented cycling and rate performance can be realized in coin and home-made soft package cells with SiO x and SiO x /graphite composite electrodes. Such a design ...

Lithium-sulfur (Li-S) batteries, with theoretical energy densities exceeding 2600 Wh kg -1, are poised to revolutionize energy storage. However, their practical viability hinges on resolving ...

Abstract Zinc-ion batteries (ZIBs) have emerged as a promising candidate for safe and affordable energy storage. This is particularly true for ZIBs using aqueous electrolytes, but unfortunately, ...

Abstract Anode-free lithium metal batteries (AFLMBs) are now considered as a promising next-generation energy storage system due to their exceptional energy density and compatibility ...

Single atom catalysts (SACs) structural design and morphological features that contribute to catalytic behavior toward Li-O2 batteries are first described, then we illustrate how theoretical ...

With a comprehensive techno-economic analysis, the cost of battery-grade lithium compounds production, i.e., lithium carbonate (LC) is evaluated and lithium hydroxide monohydrate (LHM), ...

Abstract Lithium-ion batteries, as sustainable alternatives to fossil fuels, are in great demand for powering modern society. Their energy density can further be significantly improved by using ...

This Special Issue presents 13 papers on solid-state/sustainable Li/Na-ion and wearable batteries, revealing intrinsic mechanisms from nanoscale reconfiguration to macroscopic device ...

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