

Interestingly, the spherical Zn is completely maintained during repetitive plating/stripping due to the constant GQDs sites anchored in the matrix. The preferential Zn ...

Zn metal anodes, the key to aqueous zinc-based energy storage, are plagued by dendrites and sluggish kinetics, which are closely related to the Zn plating process and restricted charge ...

Rechargeable magnesium batteries (RMBs) are considered a highly promising energy storage system. However, the lack of low-cost and highly effective el...

This study fabricates Li|graphite cells to implement Li plating-relaxation-stripping protocols through over-lithiation before internal short circuit, and the Li nucleation-growth ...

Anti-perovskite nitrides as chemically stable lithiophilic materials for highly reversible Li plating/stripping Energy Storage Materials (IF 20.2) Pub Date : 2024-08-25, DOI: ...

However, uneven deposition, large volume change, and dendrite growth during Na plating/stripping process severely restrict its feasibility for energy storage devices. Here we ...

Bottom-preferred stripping mechanism towards quantified inactive metallic Zn⁰-dominant zinc loss in rechargeable zinc metal battery Energy Storage Materials (IF 20.2) Pub Date : 2024-01-06, ...

Aqueous zinc-ion batteries (AZIBs) have received extensive attention for practical energy storage because of their uniqueness in low cost, high safety and eco-friendliness [1, 2].

Lithium dendrites, "dead lithium", infinite volume change and fragile solid electrolyte interphase (SEI) appear indefinitely during Li plating/stripping process, which severely resist the practical ...

Energy Storage Mater (2019) P. Xu et al. High reversible Li plating and stripping by in-situ construction a multifunctional lithium-pinned array Energy Storage Mater (2020) G. ...

The plating-relaxation-stripping voltage patterns show highly correlation that the occurrence of Li plating plateau exactly corresponds to the appearance of a mixed relaxation plateau attributed ...

The ever-growing markets of clean energy and large-scale energy storage systems are in urgent demand of novel battery technology with abundant resource, low-cost, ...

In recent years, two-dimensional (2D) materials such as graphene, MXene, MOF, and black phosphorus have

been widely used in various fields such as energy storage, ...

Antimony (Sb) with stripping/plating behavior is attractive as anode material for aqueous energy storage. However, it suffers from unfavorable ion diffusion and de-solvation ...

By the m-LPA, a high reversible Li plating/stripping has been achieved with small nucleation barriers, well-distributed lithium layer and firm stability. As a result, a Cu foam with ...

Finally, this review comprehensively describes the application of 2D materials in various components of elec-trochemical energy storage devices, highlighting the applica-tion value of ...

Why do we need advanced energy storage devices? The pursuit of sustainable energy has a great request for advanced energy storage devices. Lithium metal batteries are regarded as a ...

A Lithium-Metal Anode with Ultra-High Areal Capacity (50 mAh cm⁻²) by Griding Lithium Plating/Stripping Energy Storage Materials (IF 18.9) Pub Date : 2021-03-16, DOI: ...

The uniform plating/stripping processes are beneficial to the long-term cycling life of Mg anode. Moreover, when the current density is increased to 1.0, 1.5 and even 5.0 mA cm ...

In the study reported here, in situ wafer curvature measurements were employed to monitor stress evolution during the plating and stripping of lithium metal films. This ...

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