
Scientists led by an Oregon State University researcher have developed a new electrolyte that raises the efficiency of the zinc metal anode in zinc batteries to nearly 100%, a ...

This review provides a mechanism-oriented overview of electrolyte additives in zinc-based redox flow batteries, highlighting their multifunctional roles, including Zn 2+ ...

Here, a comprehensive overview of dendrite-suppressing strategies based on electrolyte additives is provided, systematically classified into organic and inorganic types.

Here, authors develop carbon quantum dot catalytic electrolytes that function both in electrolyte and at-interface to improve ...

The research emphasizes zinc powder generation in alkaline media and explores the use of a multiphase electrolyte containing suspended zinc particles for flow battery systems.

Based on the optimization of advanced aqueous electrolytes, this review outlines future directions and potential strategies for the ...

Based on the optimization of advanced aqueous electrolytes, this review outlines future directions and potential strategies for the development of high-performance AZIBs.

Here, authors develop carbon quantum dot catalytic electrolytes that function both in electrolyte and at-interface to improve reaction kinetics and low-temperature adaptability in ...

Herein, unlike elaborated structural design and electrolyte excogitation, we introduce an effective parts-per-million (ppm)-scale ...

In this research, we propose an efficient electrolyte additives strategy to improve the zinc deposition behavior, inhibit the growth of zinc dendrites, and prolong the cycling life of ...

Here, a comprehensive overview of dendrite-suppressing strategies based on electrolyte additives is provided, systematically ...

With the escalating demand for safe, sustainable, and high-performance energy storage systems, hydrogel electrolytes have emerged as promising alternatives to ...

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