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Title: All-aluminum liquid flow battery electrolyte

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Herein, we report a high-performing aqueous aluminum-ion battery (AIB), which is constructed using a Zn-supported Al alloy, an aluminum bis ...

Herein, we present a hydrate-melt electrolyte design utilizing cost-effective AlCl_3 and organic halide salts, which enables the demonstration of aqueous Al-Br batteries with ...

However, conventional aluminum-ion batteries suffer from ...

High capacity, lightweight multivalent aluminum (Al) is attractive as an energy storage active material. Current Al containing electrolytes are prohibitively air/moisture ...

The ILA electrolyte was further tested in a rechargeable Al-graphite battery system down to $-40\text{ }^\circ\text{C}$. The addition of urea to AlCl_3 - [EMIm]Cl binary mixtures can improve the Al ...

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Herein, we report a high-performing aqueous aluminum-ion battery (AIB), which is constructed using a Zn-supported Al alloy, an aluminum bis (trifluoromethanesulfonyl)imide (Al [TFSI]₃) ...

However, conventional aluminum-ion batteries suffer from performance limitations and safety issues related to the use of liquid electrolytes. These electrolytes, typically ...

The team added an inert aluminum fluoride salt to an Al-ion ...

This review presents an overview of recent advances in electrolytes in aluminum-ion batteries (AIBs). AIB electrolytes mainly include liquid and solid electrolytes.

The team added an inert aluminum fluoride salt to an Al-ion-containing electrolyte, turning it into a solid-state electrolyte. The aluminum fluoride salt has a 3D porous structure, ...

Herein, this study develops a novel hydrate eutectic electrolyte for a stable aluminium metal anode, consisting of $\text{Al}(\text{ClO}_4)_3 \cdot 9\text{H}_2\text{O}$, ethylene glycol, and $\text{InCl}_3 \cdot 4\text{H}_2\text{O}$...

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