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Title: Aluminum-iodine flow battery

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This innovative battery addresses the limitations of traditional lithium-ion batteries, flow batteries, and Zn-air batteries, contributing advanced energy storage technologies to ...

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We also briefly presented the advancements in iodine-based flow batteries and "catalytic" functions of iodine in other battery chemistries. Finally, objective suggestions that will ...

Compared with the conventional Al-I₂ battery using ionic liquid electrolyte, the proposed aqueous Al-I₂ battery delivers much enhanced electrochemical performance in terms of specific ...

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We report for the first time a rechargeable aluminum/iodine (Al/I₂) battery.

Here, the authors propose a high-capacity and long-lasting aqueous I₂ battery system using an electrochemically active organic molecule at the negative electrode.

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Al/bromate and Al/iodate flow batteries are proposed as new power supply units for use in oxygen-deficient environments.

Aluminum air chemistry can achieve high energy density but historically has encountered issues with rechargeability and clogging from reaction products. To overcome ...

Compared with the conventional Al-I₂ battery using ionic liquid electrolyte, the proposed aqueous Al-I₂ battery delivers much enhanced electrochemical performance in ...

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