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Apr 18, 2025 · The aqueous zinc-iodine batteries, a new type of aqueous zinc-ion battery, the mechanism for its electric energy storage relies on the reversible oxidation-reduction process ...

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Jun 5, 2025 · Zinc-iodine flow batteries have attracted huge attention for distributed energy storage devices owing to high inherent safety, suitable redox potential, and superior solubility. ...

Oct 9, 2024 · Abstract The multi-electron transfer I-/IO₃⁻ redox couple is attractive for high energy aqueous batteries. Shifting from an acidic to an ...

May 15, 2025 · For example, the maximum solubility of zinc iodide (ZnI₂) is 7 M [22], which renders Zn-iodine flow battery (ZIFB) a theoretical energy density of 322 Wh L⁻¹. This ...

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Aug 10, 2025 · The alkaline Zn-Fe flow battery stably operated for over 500 h, achieving an EE of 86.3 % at 80 mA cm⁻². Alkaline zinc-based flow batteries (AZFBs) are considered one of the ...

Jan 1, 2023 · In this review, a systematic summary of recent advances in aqueous iodine-based static batteries (AISBs) is presented. It begins with an introduction to iodine's fundamental ...

Jun 10, 2025 · ?? A High-Voltage Alkaline Zinc-Iodine Flow Battery Enabled by a Dual-Functional Electrolyte Additive Strategy ?????????????????? ...

Jun 7, 2018 · With this strategy, a hybrid alkaline zinc-iodine redox flow battery has been designed with a 0.47 V potential enhancement by ...

Jul 24, 2024 · Researchers reported a 1.6 V dendrite-free zinc-iodine flow battery using a

chelated Zn(PPi)₂-negolyte. The battery demonstrated ...

Jun 13, 2025 #0183; ?????A high-voltage alkaline zinc-iodine flow battery enabled by a dual-functional electrolyte additive strategy??,???? ...

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