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Title: High manganese liquid flow battery

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A research group led by Prof. Li Xianfeng from the Dalian Institute of Chemical Physics (DICP) of the Chinese Academy of Sciences (CAS) has developed a bromine-assisted-MnO<sub>2</sub>-based ...

In the industry field, manganese electrodeposition is a mature technique developed for decades. Employing additives is proven as an effective way to significantly improve manganese ...

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

Herein, a titanium-manganese single flow battery (TMSFB) with high stability is designed and fabricated for the first time. In the design, a static cathode without the tank and pump is ...

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The combination of excellent system longevity, impressive power output and high round-trip efficiency, confirms the hydrogen/manganese hybrid RFB here reported as a ...

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An energetic Mn<sup>2+</sup>-S redox electrochemistry is proposed, enabling an energetic aqueous manganese ion battery (AMIB) via a solid-liquid-solid redox pathway. This achieves a ...

Aqueous manganese-based redox flow batteries (MRFBs) are attracting increasing attention for electrochemical energy storage systems due to their low cost, high safety, and ...

Herein, a high specific energy aqueous aluminum-manganese battery is constructed by interfacial modified aluminum anode, high concentration electrolyte and layered ...

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An energetic  $Mn^{2+}$ -S redox electrochemistry is proposed, enabling an energetic aqueous manganese ion battery (AMIB) via a solid ...

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