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Title: All-iron flow battery efficiency

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A preliminary cost prediction, together with a detailed description of the strength of flow batteries, show how flow batteries can play a pivotal role alongside other technologies like lithium-ion ...

While this value of coulombic efficiency is among the highest values reported for the iron electrode in the context of the all-iron flow ...

Our study provides understanding on the effect of electrolyte composition and pH changes near the electrode surface on the coulombic efficiency of the iron electrode of an all-iron flow battery.

The researchers report in Nature Communications that their lab-scale, iron-based battery exhibited remarkable cycling stability over one thousand consecutive charging cycles, ...

While this value of coulombic efficiency is among the highest values reported for the iron electrode in the context of the all-iron flow battery, further improvement in efficiency is ...

The IRFB can achieve up to 70% round trip energy efficiency. In comparison, other long duration storage technologies such as pumped hydro energy storage provide around 80% round trip ...

Herein, ferrous complexes combined with the triisopropanolamine (TIPA) ligand are identified as promising anolytes to ...

Iron/iron redox flow batteries (IRFBs) are emerging as a cost-effective alternative to traditional energy storage systems. This study investigates ...

Herein, ferrous complexes combined with the triisopropanolamine (TIPA) ligand are identified as promising anolytes to extend battery life by reducing cross-contamination due ...

To improve the flow mass transfer inside the electrodes and the efficiency of an all-iron redox flow battery, a semi-solid all-iron redox flow battery is presented experimentally.

Iron/iron redox flow batteries (IRFBs) are emerging as a cost-effective alternative to traditional energy storage systems. This study investigates the impact of key operational characteristics, ...

Iron-based ARFBs rely on the redox chemistry of iron species to enable efficient and cost-effective energy storage. Understanding the fundamental electrochemical principles ...

All-soluble, all-iron flow battery performance is critically dependent upon cell configuration. Flow-through and flow-over designs exhibit stark differences in efficiency, ...

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