

Title: MOF flow battery

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Metal-organic frameworks (MOFs) have played a crucial role in recent advancements in developing lithium-based battery electrolytes, electrodes, and separators.

Herein, we fabricated flexible membranes incorporating metal-organic framework (MOF) via a solution casting approach. The rigid framework structure of the MOF effectively suppresses ...

In this review, we provide a unified discussion of MOF-enabled strategies for electrolyte and interface engineering across next-generation rechargeable batteries.

By regulating the ion sieving and proton conductivity, MOF-801/MOF-808 binary composite membrane exhibits synchronously improved performance in the vanadium redox flow ...

Polarization curves and electrochemical impedance spectroscopy measurements of the vanadium redox flow battery (VRFB) assembly illustrate the significant decrease in charge transfer resistance at ...

This review systematically examines the advancements in MOF-based Zn-halogen batteries, focusing on their roles in different components of the battery, including the cathode, anode, ...

MOF materials offer considerable benefits owing to their large specific surface area and plentiful Lewis acid sites present on their surfaces. Metal-organic frameworks (MOFs) demonstrate ...

This study establishes amorphous MOF catalysts for high-performance AIRFBs, resolving the critical trade-off between cycle longevity and energy density in flow battery systems.

Metal-organic framework (MOF) is a reliable choice for redox flow battery membrane and electrode modification materials due to its three-dimensional porous structure, suitable specific ...

We introduce a metal-organic framework (MOF) liquid-infusion technique to fully integrate MOF liquid into

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the grain boundaries of NCM-811, creating a thoroughly coated cathode with a thin,...

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