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Can organic electrolytes be used to design high-performance aqueous flow batteries?

Much research work was conducted on organic electrolytes for designing high-performance aqueous flow batteries. The motivation of this review is to summarize and present the structure features, property evaluation methods, performance improvement schemes and battery design principles.

What is an aqueous organic redox flow battery (AORFB)?

A typical aqueous organic redox flow battery (AORFB) with organic redox-active materials dissolved in aqueous electrolytes.

Can organic redox-active materials be used for Advanced Flow batteries?

Organic redox-active materials offer a new opportunity for the construction of advanced flow batteries due to their advantages of potentially low cost, extensive structural diversity, tunable electrochemical properties, and high natural abundance.

What are organic batteries?

Unlike traditional LIBs that rely on inorganic electrode materials (IEMs) based on transition metals, organic batteries use organic electrode materials (OEMs) composed of abundant light elements such as C, H, O, N and S (Fig. 1b).

In this review, we present the emergence and development of organic redox-active materials for aqueous organic redox flow batteries (AORFBs), in particular, molecular ...

Aqueous organic redox flow batteries are promising for grid-scale energy storage, although their practical application is still limited. Here, the authors report highly ion-conductive ...

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