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Paired with concentrated K 2 S anolyte, we demonstrate a neutral aqueous SMRT-based PB-Fe/S flow battery with ultra-long lifespan over 7000 cycles (4500 h) and ultra-low ...

This work develops an understanding of the synthesis and tailoring of redox properties into the polymers to deliver neutral pH aqueous polymer RFB in combination with a ...

This work develops a neutral, energy-dense aqueous organic redox flow battery, extensively elucidating the fundamental mechanism of the dual-plateau SMRT reaction, ...

The molecular design and engineering of representative electrolytes and ion-exchange membranes for pH-neutral aqueous organic redox flow batteries (AORFBs) are ...

ABSTRACT: We demonstrate an aqueous organic and organo-metallic redox flow battery utilizing reactants composed of only earth-abundant elements and operating at neutral pH.

In this study, the authors introduced a pH recovery system to address crossover issues, ensuring long-lasting, high-voltage pH-decoupled flow batteries.

To overcome these challenges, this study provides a hydrothermal synthesis methodology and introduces the charged functional groups into hydrophobic naphthalene ...

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Here, a pH neutral aqueous organic redox flow battery (AORFB) consisting of three electrolytes channels (i.e., an anolyte channel, a catholyte channel, and a central salt water channel) to ...

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