

Title: Neutral organic flow battery

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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.

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Here, we design a stable aqueous organic iron-cerium redox flow battery based on the inexpensive metal iron and the abundant rare earth metal cerium, enabled by the universal ...

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Aqueous organic redox flow batteries (AORFBs) are a new type of flow batteries that employ aqueous soluble and redox-active organic species as the electrolytes, which ...

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

At near-neutral conditions, the (PPBPy)Br₂ /PSS-TEMPO flow cell exhibits a high voltage of 1.61 V, extremely low permeability across cation-exchange membrane and thus ...

Aqueous Organic Redox Flow Batteries: A neutral-pH ...

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