

Title: Quinone flow battery

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Quinones are one of the most promising and widely investigated classes of redox active materials for organic aqueous redox flow batteries. ...

A water-miscible anthraquinone with polyethylene glycol (PEG)-based solubilizing groups is introduced as the redox-active molecule in a negative electrolyte (negolyte) for aqueous redox flow ...

This review article provides a comprehensive overview of recent progress in this area, with a specific focus on redox potential, solubility, and stability, and offers valuable insights into the ...

Right now, Quino is simply swapping out vanadium-based electrolytes in commercial flow batteries with its quinone formulation, the source ...

We instrument a quinone-bromine flow battery with a Pd-H reference electrode in order to demonstrate how complexation in both the negative (quinone) and ...

The battery operates efficiently with high power density near room temperature. These results demonstrate the stability and performance of redox-active organic molecules in alkaline flow ...

We report an alkaline flow battery based on redox-active organic molecules that are composed entirely of Earth-abundant elements and are nontoxic, nonflammable, and safe for use in ...

hraqinone flow battery molecules. One molecule, with a two-carbon linkage between the lawsone units, and 4 total functionalizations (of the -OCCCOOH type) is predicted to be both more stable and lower ...

Quino Energy is a start-up company that is developing water-based flow batteries that store electrical energy in organic molecules called quinones, for commercial and grid applications.

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