
Benzoquinone flow battery

Unveiling dominant impact of electrochemical stability on performance deterioration in alkaline redox flow batteries utilizing different benzoquinone derivatives Jeong ...

A benzoquinone derivative annelated by two imidazole rings was investigated as an organic anolyte of aqueous redox flow batteries. The anolyte showed a high solubility of ...

Flow batteries have gained attention due to their potential viability for inexpensive storage of large amounts of energy. While the quinone/hydroquinone redox couple is a widely studied redox ...

In article number 1702056 Roy G. Gordon, Michael J. Aziz and co-workers, introduce an aqueous flow battery based on low-cost, nonflammable, noncorrosive, and earth ...

Abstract An aqueous flow battery based on low-cost, nonflammable, noncorrosive, and earth-abundant elements is introduced. During charging, electrons are stored in a ...

Redox flow batteries (RFBs) rely on the development of cheap, highly soluble, and high-energy-density electrolytes. Several candidate quinones have already been investigated ...

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