

Title: Single flow battery

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Aqueous zinc-bromine single-flow batteries (ZBSFBs) are highly promising for distributed energy storage systems due to their safety, low cost, and relatively high energy ...

Consequently, only batteries, both conventional and flow batteries, have the energy capacities needed for large-scale electrical energy storage. Flow ...

Here, we propose a potentially inexpensive Zn-Br<sub>2</sub> RFB which is membraneless and requires only a single flow. The flow is an emulsion consisting of a continuous, Br<sub>2</sub>-poor ...

In this work, we analytically and numerically model the flow and chemical species transport for a novel single-flow geometry, and show enhancement of reactant transport and separation. ...

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