

Kongres Container

Miniaturization of zinc-bromine flow batteries



Overview

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In the early stage of zinc-bromine batteries, electrodes were immersed in a non-flowing solution of zinc-bromide that was developed as a flowing electrolyte over time. Both the zinc-bromine static (non-flow) system and the flow system share the same electrochemistry, albeit with different features.

The fundamental electrochemical aspects including the key challenges and promising solutions in both zinc and bromine half-cells are reviewed. The key performance metrics of ZBRBs and assessment methods using various ex situ and in situ/operando techniques are also discussed. Zinc-bromine.

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