

Title: Flow battery electrode design

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This review focuses on various approaches to enhancing electrode performance, particularly the methods of surface etching and catalyst deposition, as well as some other ...

Reducing system capital costs to levels below \$100/kWh is considered an important milestone for flow batteries to achieve commercial success.

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Inspired by flow field designs used in fuel cells and flow batteries, we imprint groove and pillar micro-patterns to enhance in-plane and through-plane mass transport.

Abstract In vanadium redox flow batteries, the flow field geometry plays a dramatic role on the distribution of the electrolyte and its design results from the trade-off between high ...

These approaches aim to increase active sites and enhance kinetics for the redox reactions, which are crucial for elevating power ...

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