

The latest science of flow batteries



Overview

A Japanese-Chinese team developed a titanium molten salt redox-flow battery using abundant titanium ions and molten salt electrolytes to enable high-voltage, fast, and stable grid-scale energy storage.

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[Grid-scale corrosion-free Zn/Br flow batteries enabled](#)

Using this reaction, we have built a large-scale battery system. Zinc-bromine flow batteries face challenges from corrosive Br₂, which limits their

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[Titanium emerges as a vanadium alternative for redox flow batteries](#)



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Technology Strategy Assessment

Defined standards for measuring both the performance of flow battery systems and facilitating the interoperability of key flow battery components were identified as a key need by industry.



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[A comprehensive review of vanadium redox flow batteries: Principles](#)

Vanadium redox flow batteries (VRFBs) have progressed from early conceptual work in the 1970s to become a mature yet continually evolving technology, offering compelling advantages



The New York Times

In a social media post, President Trump attacked Tucker Carlson and Megyn Kelly, and criticized the editorial board of The Wall Street Journal. Zohran Mamdani has pushed to deliver tangible

[The breakthrough in flow batteries: A step forward, but](#)

Flow batteries are emerging as a transformative technology for large-scale energy storage, offering scalability and long-duration storage to address



New ORNL electrolyte lets the ions flow

While solid-state batteries are a clear application for the new electrolyte, many energy technologies also rely on effective ion transport. Flow batteries, fuel cells, grid-level energy storage

[This tiny chemistry change makes flow batteries last far](#)

Scientists developed a way to chemically capture corrosive bromine during battery operation, keeping its concentration extremely low while boosting energy density



[High-Energy-Density Redox Flow Batteries: Mechanisms, Design](#)

The inherent intermittency of energy sources such as solar and wind power hinders the transition to renewable energy, necessitating advanced energy storage solutions. Enhancing energy

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Aqueous iron-based redox flow batteries for large-scale energy storage

It highlights recent advancements in the field and explores future prospects, focusing on four key areas: materials innovation and mechanistic understanding; flow battery system design and

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[Polymer electrolyte lets the ions flow for solid-state batteries](#)

Researchers at the Department of Energy's Oak Ridge National Laboratory have uncovered a path to design superionic polymer electrolytes

for solid-state batteries and other energy

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