

Title: Shanghai Institute of Chemical Physics develops liquid flow battery

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Vanadium flow batteries are currently the most technologically mature flow battery system. Unlike lithium-ion batteries, Vanadium flow batteries store energy in a non-flammable ...

Chinese researchers achieved a breakthrough in their development of organic flow batteries, creating novel ORAMs that help ...

In October 2022, the world's first 100-megawatt-level vanadium redox flow battery power station for energy storage and peak regulation, designated as a National Demonstration Project, was ...

Chinese researchers have developed a zinc-bromine flow battery that demonstrated record stability through a new mechanism based on two-electron bromine transfer, with a 5 kW ...

In this study, the researchers synthesized active naphthalene derivatives using a scalable approach that combined chemical and in situ electrochemical methods. This ...

Researchers have developed a new class of ion exchange membranes, designed to enhance the efficiency and durability of redox ...

A new 70 kW-level vanadium flow battery stack, developed by researchers, doubles energy storage capacity without increasing costs, marking a significant leap in battery ...

Chinese scientists develop organic molecules that are stable even when they come in contact with air in flow batteries.

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