Special Chrome Flow Battery

An international research team has developed a new concept for redox flow batteries that uses iron and chromium ore for redox chemistry.

Researchers affiliated with UNIST have managed to prolong the lifespan of iron-chromium redox flow batteries (Fe-Cr RFBs), large-capacity and explosion-proof energy storage ...

A team of battery researchers, collaborating across multiple countries, just made a huge breakthrough for iron-chromium redox flow batteries.

Iron-chromium flow batteries are available for telecom back-up at the 5 kW - 3 hour scale and have been demonstrated at utility scale. Current developers are working on reducing cost and enhancing ...

A promising technology for performing that task is the flow battery, an electrochemical device that can store hundreds of megawatt-hours of energy--enough to keep thousands of homes ...

From solar farms to steel mills, special chromium liquid flow batteries offer a future-proof storage solution. Their unique combination of safety, scalability, and 25-year lifespans makes them ...

The Fe-Cr flow battery (ICFB), which is regarded as the first generation of real FB, employs widely available and cost-effective chromium and iron chlorides ($CrCl_3$ /$CrCl_2$ and $FeCl_2$ ...

Iron-Chromium Flow Batteries are safer, scalable and cost-effective. Discover why this original NASA-era innovation is poised to lead the LDES market today.

Herein, the effect of Fe/Cr molar ratio, and concentration of HCl on the performance of ICRFBs at high current density (140 mA cm-2) are investigated.

This work can improve the battery performance of iron-chromium flow battery more efficiently, and further

provide theoretical guidance and data support to its engineering application.

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