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Title: Liquid metal battery

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The liquid-metal battery is an innovative approach to solving grid-scale electricity storage problems. Its capabilities allow improved integration of renewable resources into the ...

Last year, liquid-metal battery maker Ambri set out to raise a \$300 million Series F funding round. The money would have fueled its ambitious manufacturing plans, and made ...

An innovative use of tin foam could soon transform energy storage. Engineers have long favored graphite for battery electrodes, drawn to its conductivity and reliability. But ...

One metal with a roughly room-temperature melting point is gallium. "For over a decade, we've been working with gallium and gallium-based liquid metal alloys for applications ...

The liquid metal composite layer effectively transferred thermal energy from the outer surfaces, which absorbed heat from the skin. One of the outer layers, designed as a heat ...

After filing for Chapter 11 bankruptcy protection, the calcium-antimony liquid metal battery startup incubated at the Massachusetts Institute of Technology (MIT) has now ...

In these batteries, the states of the electrode highly affect the performance and manufacturing process of the battery, and therefore leverage the price of the battery. A battery with liquid ...

The traditional lithium-ion battery, excellent in transportation and short-duration use, is costly and degrades over the long run on a grid scale. Liquid metal batteries possess a ...

Compared to traditional liquid-based electrochemical converters, Johnson's device operates in greater temperature ranges. And while other converters--such as alkali-metal ...

Moving from a liquid electrolyte battery to a solid-state battery might appear to be outside the conventional design, but it's aimed at leapfrogging present capabilities in energy ...

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