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Title: Antimony electrode battery and container system

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Liquid metal batteries utilizing magnesium as the negative electrode and antimony as the positive electrode offer high energy density and efficiency. This electrode combination creates a ...

Here, we introduce a HTES approach based on a reversible solid oxide cell using liquid antimony (Sb) as fuel, operating at 700-750 °C. We design a full-liquid antimony electrode with a novel self ...

The molten salt was transferred to an electrolysis furnace for electrochemical reduction. A three-electrode system was used under an argon atmosphere, heated to 450 °C. Pre-electrolysis ...

With conventional dry-cell battery using two electrodes separated by an electrolyte, it would require thousands of individual cells, the size of soft drink cans, to be strung together in a massive ...

In this work, a metalloid dual-active Sb-Te alloy is designed as a positive electrode to improve the energy density of LMBs. Moreover, the multistep lithiation mechanisms of Sb-Te ...

Abstract The incorporation of trace amounts of Sb<sub>2</sub>O<sub>3</sub> into the positive electrode plate of lead-acid batteries effectively suppresses the softening and shedding of the active material, thereby extending ...

The graphite contained in the antimony-containing negative-electrode active material can be used as a load for the antimony-carbon composite material, thereby further improving the...

Here, authors pair a Ca-based liquid metal negative electrode with a solid Sb positive electrode to achieve high capacity and low energy cost.

In this work, antimony in the form of a composite with carbon (Sb-C) is evaluated as an anode material for DIB full cells for the first time.



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