Anode-free sodium solid-state battery

Researchers from UChicago Professor Y. Shirley Meng"s Laboratory for Energy Storage and Conversion have created the first anode-free sodium solid-state battery.

University of California, San Diego, and University of Chicago researchers have created the world"s first anode-free, sodium all-solid-state battery for the EV and grid storage ...

Researchers unveil the world"s first anode-free sodium solid-state battery, promising cost-effectiveness and environmental benefits.

A sodium anode-free all-solid-state battery full-cell is demonstrated with stable cycling for several hundred cycles. This cell architecture serves as a future direction for other ...

By removing the anode and using inexpensive, abundant sodium instead of lithium, this new form of battery will be more affordable and environmentally friendly to produce.

In what is described as the world"s first, researchers at the Laboratory for Energy Storage and Conversion (LESC) have managed to devise design principles for enabling an ...

A sodium anode-free all-solid-state battery full-cell is demonstrated with stable cycling for several hundred cycles. This cell architecture serves as a future direction for other battery chemistries to enable low-cost, ...

Anode-free Solid-state Sodium Batteries (AFSSBs) demonstrate high energy densities and low costs, but suffer from a critical challenge of severe Na dendrite growth for ...

Scientists have created an anode-free sodium solid-state battery. This brings the reality of inexpensive, fast-charging, high-capacity batteries for electric vehicles and grid ...

Therefore, anode-free solid-state sodium metal battery (AFSSB) concepts are explored to promise a safe and high energy density battery technology with less material consumption and simple anode processing.

In what is described as the world"s first, researchers at the Laboratory for Energy Storage and Conversion (LESC) have managed to devise design principles for enabling an anode-free all-solid-state battery.

In this work, we enable stable cycling in an anode-free all-solid-state battery architecture, which can potentially lead to a considerable increase in energy density.

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