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Could flow aluminum compete with Ionic lithium-ion batteries?
A new startup company is working to develop aluminum-based,low-cost energy storage systems for electric vehicles and microgrids. Founded by University of New Mexico inventor Shuya Wei,Flow Aluminum,Inc. could directly competewith ionic lithium-ion batteries and provide a broad range of advantages.
How does a flow aluminum battery work?
An aluminum derivative also provides an additional catalyst to speed the process,and a liquid electrolyte -- called an "ionic liquid" -- efficiently moves the ions and electrons around in the battery. That electrochemical processallows Flow Aluminum batteries to store more energy and provide a powerful discharge of electricity.
Could flow aluminum make a battery 'open format'?
That could allow Flow Aluminum to develop to two different battery options, including a "sealed" system with all materials enclosed inside, or an "open format" whereby the battery stores and discharges electricity while also pulling carbon directly from the air, Fetrow said.
Will flow aluminum make a drone battery?
The company expects Oregon-based prototyping firm Polaristo produce a first commercial aluminum battery within six months to power up drones -- a small-scale application that Flow Aluminum is targeting for its initial market.

Flow Aluminum is a high performance 500 Wh/kg battery that uses aluminum instead of lithium and intakes CO2 instead of using cobalt and nickel. The aluminum is 100% recycled creating ...

Flow Aluminum, an Albuquerque-based startup innovating the energy sector with its groundbreaking aluminum-CO2 battery technology, today announced a significant milestone in ...

Albuquerque-based aluminum-carbon (Al-CO 2) battery developer Flow Aluminum has demonstrated a full discharge and half-charge cycle in a pouch cell based on its "metal ...

Flow Aluminum manufactures aluminum-based batteries offering low-cost energy storage systems for electric

vehicles and microgrids.

Made from widely available U.S. aluminum -- affordable, scalable, and secure. No thermal runaway. Built to perform safely, even under stress. Best in class energy efficiency -- setting a ...

Flow Aluminum Inc., founded 2023 in Albuquerque, New Mexico, develops advanced aluminum-CO2 battery technology to transform energy storage with sustainable, high-performance, non ...

Flow Aluminum, an Albuquerque-based startup, is working to create a battery that uses aluminum and carbon dioxide in batteries, as opposed to the standard practice of using ...

Flow Aluminum, an Albuquerque-based startup innovating the energy sector with its groundbreaking aluminum-CO2 battery technology, ...

Flow Aluminum Inc. - We design and manufacture Aluminum-CO2 batteries with Direct Air Capture functionality as well as battery monitoring and management systems.

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