

In a major step forward for sustainable energy technology, researchers at Worcester Polytechnic Institute (WPI), led by Professor Yan Wang, William B. Smith Professor of Mechanical and ...

Advancements in battery technology and supportive policies help reduce emissions and promote energy efficiency, significantly impacting global EV adoption. This paper explores the material ...

Two projects led by the University of Oxford have received a major funding boost from the Faraday Institution, the UK's flagship institute for electrochemical energy storage research. The funding is part of a £19 million ...

This study assesses the material, environmental, and economic performance of closed-loop lithium-ion battery (LIB) recycling amid China's electric vehicle ambitions, indicating that a ...

Electrochemical measurements are essential for identifying the characteristics and performance limits of lithium-ion batteries. These measurements enable scientists to detect potential issues ...

July 2, 2025 Vanadium Redox Flow Batteries: A Safer Alternative to Lithium-Ion Technology As the global push for renewable energy accelerates, the demand for safe, sustainable, and ...

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It marked the first successful application of transfer printing in lithium-metal battery protection--and it worked spectacularly. In earlier tests, the alumina-gold layer kept dendrites ...

A Cleaner, Cheaper Way to Make High-Performance Lithium-Ion Batteries A new breakthrough in battery chemistry could eliminate the use of cobalt and nickel in lithium-ion batteries.

Tesla is once again making headlines with its innovative approach to electric vehicle (EV) battery technology. The introduction of Tesla's new lithium-iron-phosphate (LFP) battery tech marks a ...

YOGYAKARTA - In the midst of the increasing energy demand, especially in electronic devices and electric vehicles, battery technology continues to develop. One of the most promising ...

Inspired by the recycling of spent Li-ion batteries, Liu et al. report on a Joule-heating-induced high-temperature shock strategy to achieve co-disposal of slag of FePO₄ and spent LiMn₂O₄ ...



Juba lithium-ion battery technology

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This initiative is part of the £2.5 billion DRIVE35 programme supporting UK EV manufacturing supply chain and creating jobs in a sustainable industry. Clean tech innovator Mint Innovation ...

Octillion Power Systems, a California-based supplier of high-density lithium-ion battery packs for electric vehicles of all types, has expanded its existing partnership with Vision Marine ...

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Lithium-ion batteries (LIBs) are central to the urgent societal need to decarbonize both transportation and energy storage on the grid. Unfortunately, despite their attractive ...

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