# Juba lithium-ion battery technology

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 ...

Kalmar has introduced its second-generation lithium-ion (Li-ion) battery solution for its range of electrically powered counter balanced equipment: reachstackers, empty container handlers ...

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 ...

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Graphene batteries and lithium-ion batteries are two of the most talked-about technologies in the energy storage industry. Both have their own unique properties and advantages, but which one is better? In this article, I will ...

Potassium-ion batteries store more energy than sodium-ion options, making them ideal for large-scale green energy storage, according to a summary of recent research at Dongguk University ...

This initiative is part of the £2.5billion 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 ...

The global lithium-ion secondary battery market is experiencing robust growth, driven by the burgeoning demand for electric vehicles (EVs), energy storage systems (ESS), and portable ...

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 ...

Learn why 12V lithium phosphate battery (LiFePO4) technology is ideal for solar, RV, marine, and portable power uses. Discover key benefits like safety, long lifespan, and lightweight design.

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