

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 ...

A team of Chinese researchers has made a groundbreaking breakthrough to revive aging lithium batteries by injecting a "shot" of lithium ions, potentially extending their lifespan from the typical 6-8 years or 1,000-1,500 ...

Electric vehicles (EVs) are at the forefront of the automotive industry's transition towards sustainability. This article examines the lithium-ion technology now dominating the market, as ...

Sodium is more than 500 times more abundant than lithium, which is available in a few countries. Sodium-ion battery charges faster than lithium-ion variants and have a three times higher lifecycle. However, sodium-ion ...

Klypto, India's first AI-native automation platform, launched to transform real-time intelligent automation. Founded by Aditya Kumar, it integrates machine learning and self-evolving AI, enabling adaptive and autonomous decision-making ...

Seeking a sustainable and cost-effective solution, James discovered the 5000-cycle, 24V Lithium Iron Phosphate (LiFePO<sub>4</sub>) battery with a Smart Battery Management System (BMS) from ...

The cells will be integrated into AceOn's swappable battery pack and battery management system, with field testing conducted on e-bikes at Strathmore University, Kenya. Margadonna ...

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 ...

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 ...

The StamiNa - Sustainable Transport and Affordable Mobility through Innovation in Na-ion technology project--led by Swansea University in partnership with Coventry University, Batri ...

The lithium battery industry is changing quickly. To stay competitive in 2025, distributors need to be on top of new lithium battery technologies. From fresh innovations to shifts in regulations, ...

At the core of this convenience lies a remarkable innovation: the lithium-ion battery. These compact energy



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sources have revolutionized mobile technology. But like all powerful tools, they come with risks, from overheating to sudden ...

Nextrode - Lithium ion battery electrode manufacturing Nextrode researchers are developing new tools, including pre-production design and manufacturing simulation, process diagnostics, and feedback control, to ...

Battery Breaking-News Headlines Trump slaps a 93.5% tariff on crucial China graphite; Stellantis lost \$2.68 billion in H1; MG's hatchback features a semi-solid EV battery, a global first; US battery facilities move from EV to ...

A transformative research partnership led by Swansea University in the UK, in collaboration with tertiary institutions in Kenya and Nigeria, has secured major UK government funding to fast ...

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.



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