

The U.S. Environmental Protection Agency has reached an agreement with Texas-based Vistra Corp. to remove lithium-ion batteries damaged by a massive fire at its Moss Landing battery ...

The battery industry moves at a fast pace: The articles Battery Technology publishes represent only a fraction of what's happening in this quickly evolving industry. That's the idea behind this curated and regularly updated ...

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 ...

Furthermore, 3D printing technology can be employed in the fabrication of solid-state electrolytes for lithium-ion batteries to enhance their conductivity and durability. The application of 3D ...

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

“Receiving the 2025 IEEE PELS Energy Storage Innovation Award validates the ViPER team's breakthrough in enabling lithium-ion batteries to operate reliably below -100°C, paving the ...

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 ...

Lithium-ion technology offers a smarter, more sustainable alternative. Li-ion batteries deliver up to three times the service life of conventional systems, require no maintenance, and eliminate the ...

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

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 ...

Beijing has added battery cathode material preparation technology to its restricted export list. The move

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affects lithium iron phosphate (LFP) and related technologies, requiring export licences ...

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 ...

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 ...

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 ...



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