

Exide Industries is strategically positioning itself for growth in energy storage by focusing on both lead-acid and lithium-ion batteries, with significant investments in innovation and ...

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, ...

Manufacturers have been pushing the limits of lithium-ion technology for years, but a new type of battery promises to change that equation. Silicon-carbon batteries, already appearing in some flagship phones, offer a step forward in ...

As an important energy storage device, lithium-ion batteries are progressively incorporating 3D printing technology to construct nanomicro structures, thereby enhancing the electrochemical ...

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 ...

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 ...

The market is expected to expand from approximately 700 GWh in 2022 to over 4 TWh by 2030. Since their introduction by Sony in the early 1990s, conventional lithium-ion batteries have ...

A 48V lithium ion battery 200Ah is a powerful, high-capacity battery designed for demanding applications like solar, electric vehicles, and industrial uses. It offers long lifespan, fast ...

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 ...

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 ...

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 ...

A research team in South Korea has developed a breakthrough transfer printing technology that forms

Brunei lithium-ion battery technology

protective thin layers on lithium metal surfaces--an innovation poised to solve the long-standing dendrite issue plaguing next ...

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 ...

Researchers have found a new, scalable method to recycle lithium-ion batteries that tackles two major challenges: the growing volume of battery waste and global demand for critical materials used in electric vehicles and other clean energy ...

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 ...

Exide charts growth path with focus on lead-acid, lithium-ion batteries Sustainability is embedded in our operations from green energy adoption and eco-friendly products to expanded recycling capacity and green logistics, Roy ...



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