

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 ...

Pol's team earned a Guinness World Record for the "lowest temperature to charge a lithium-ion battery" by demonstrating reliable operation at -100°C. Traditional lithium-ion batteries face ...

MASSIMO unveils the MileMax Lithium-ion E-rickshaw Battery, boasting long battery life and zero maintenance. The launch signifies a commitment to sustainable mobility with smart ...

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 ...

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.

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 ...

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 ...

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 sustainability.

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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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 ...



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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 ...

The legacy lithium-ion battery technology that dominates the market for drones and other defense applications requires cobalt, nickel, manganese, and graphite--materials that flow through ...

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 ...

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 ...

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

Researchers at Pusan National University create a customizable full concentration gradient design for high-nickel cathodes, enhancing lithium-ion battery safety, stability, and cycle life.

Kalmar has announced the launch of its second-generation lithium-ion (Li-ion) battery technology, bringing a significant performance boost to its lineup of electric counterbalanced cargo ...

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 ...



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