

Safety Enhancements High Energy Density Opting for lithium batteries not only ensures exceptional backup performance but also supports a more sustainable and efficient approach to energy storage and usage. By ...

Buried deep within the negative electrode of advanced lithium-ion batteries, silicide is stepping into the spotlight. Forget basic silicon; silicide offers a smarter path to the energy storage ...

A research team in South Korea has developed a breakthrough transfer printing technology that forms protective thin layers on lithium metal surfaces--an innovation poised to solve the long-standing dendrite issue plaguing next ...

A Delta flight made an emergency landing due to a passenger's personal battery catching fire. Lithium-ion battery fires on planes have increased significantly in recent years. Spare lithium ...

A team of McGill University researchers, working with colleagues in the United States and South Korea, has developed a new way to make high-performance lithium-ion battery materials that ...

Family forced to flee as lithium-ion battery fire engulfs Forrestfield, Perth home A family, including a one-year-old, was forced to flee their home in the dead of night as it became engulfed in ...

Longevity of Lithium-ion Batteries Lithium-ion batteries tend to swell over time, mainly due to off-gassing during charging cycles. The typical non-linear aging of each cell can result in unintended mechanical interference between ...

The law adds lithium-ion batteries to the list of items that are banned from disposal in landfills and incinerators. The law stipulates that any rechargeable device must be recycled.

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 ...

The CATMAT project is researching next-generation cathode materials that could significantly increase the energy density of lithium-ion batteries. There is an urgent need to increase the range of electric vehicles ...

An Iowa State University researcher is using a special tool to test the limits of lithium-ion batteries. Todd Kingston says the device called the accelerating rate calorimeter or ARC. "It ...

Electric vehicles (EVs) are at the forefront of the automotive industry's transition towards sustainability. This



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article examines the lithium-ion technology now dominating the market, as ...

Gradiant, a global water and resource recovery innovator, has announced the world's first fully integrated lithium production facility using oilfield produced water, through its lithium platform ...

Exide Industries on Saturday said it is strategically poised to lead the future of energy storage through a dual-pronged focus on its conventional lead-acid battery business and the next ...

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 ...



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