

What are the new technologies for lithium-ion batteries

Today, most electric cars run on some variant of a lithium-ion battery. Lithium is the third-lightest element in the periodic table and has a reactive outer electron, making its ions great energy ...

The new lithium-ion battery includes a cathode based on organic materials, instead of cobalt or nickel (another metal often used in lithium-ion batteries). In a new study, ...

The race is on to generate new technologies to ready the battery industry for the transition toward a future with more renewable energy. In this competitive landscape, it's hard ...

Researchers from the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have developed a new lithium metal battery that can be charged and ...

Lithium-ion batteries are also finding new applications, including electricity storage on the grid that can help balance out intermittent renewable power sources like wind ...

The technology faces several limitations that prevent it from serving as a lithium-ion battery alternative anytime soon. For example, existing cathode materials that work with ...

A brand new substance, which could reduce lithium use in batteries, has been discovered using artificial intelligence (AI) and supercomputing.

Emerging technologies such as solid-state batteries, lithium-sulfur batteries, and flow batteries hold potential for greater storage capacities than lithium-ion batteries. Recent developments in ...

A new factory will be the first full-scale plant to produce sodium-ion batteries in the US. The chemistry could provide a cheaper alternative to the standard lithium-ion ...

Research into developing new battery technologies in the last century identified alkali metals as potential electrode materials due to their low standard potentials and densities. ...

As depicted in Fig. 2 (a), taking lithium cobalt oxide as an example, the working principle of a lithium-ion battery is as follows: During charging, lithium ions are extracted from ...

This paper discusses the technologies for S-LIBs cascade utilization, ...

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condition assessment and the combination of informatization for ...

The "next-generation lithium-ion battery" (NGLB), is a new battery technology that will offer significantly improved performance in terms of charge time and overall lifespan. ...

Research into developing new battery technologies in the last century identified alkali metals as potential electrode materials due to their low standard potentials and densities. In particular, lithium is the lightest metal in ...

Lithium-ion batteries are also finding new applications, including electricity storage on the grid that can help balance out intermittent renewable power sources like wind and solar. But there is ...

Developing sodium-ion batteries. After its success supplying lithium-ion batteries to the electric vehicle market, Northvolt has been working secretly on a sodium-ion battery ...

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