
Lithium-ion batteries, spurred by the growth in mobile phone, tablet, and laptop computer markets, have been pushed to achieve increasingly higher energy densities, which ...

Scientists develop a way to make polymer electrolytes, a key component for safer lithium-ion batteries, from waste polyethylene terephthalate bottles.

To enable market penetration, battery vendors have had to deliver systems with superior performance (cycle life, degradation, etc.) and lower costs. Lithium-ion"s high energy ...

The rechargeable lithium-ion battery market was $11.8 billion in 2011 and is expected to increase to $50 billion by 2020. With rapid growth in the consumer electronics and ...

Further Reading: Lengthening the Life of Lithium-Ion Batteries Pushing batteries past their limits pushes battery advancement. With more data available, developers can ...

Learn about the working principle, advantages, and challenges of lithium-ion batteries, the dominant rechargeable technology for portable electronics ...

Doron Meyersdorf is co-founder and CEO of Storedot, an Israeli firm that has developed a new, faster-charging lithium-ion battery using nanotechnology and new materials. ...

Primary lithium batteries: Non-rechargeable and used in applications like cameras, watches, and some medical devices. ...

Fast-charging lithium-ion batteries power the vast majority of the devices we use every day, including cellphones, computers, and electric vehicles. Unfortunately, a major ...

The phenomenon that makes lithium-ion batteries possible also makes the battery a potential tool for desalination, with just a little laser-made channeling.

Discover lithium-ion battery types, cell formats, safety advancements, performance improvements, and expert insights on future innovations in battery technology.

Learn how lithium-ion batteries store and generate energy with lithium ions, electrolyte, and separator. See the animation and ...

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