

# Lithium ion

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Lithium-ion batteries power the lives of millions of people each day. From laptops and cell phones to hybrids and electric cars, this technology is growing in popularity due to its light weight, high energy density, and ability to recharge.

New observations by researchers at MIT have revealed the inner workings of a type of electrode widely used in lithium-ion batteries. The new findings explain the unexpectedly high power and long cycle life of such batteries, the researchers say.

Rechargeable batteries help to solve this problem and the best kind use a technology called lithium ion. Your cellphone, laptop computer, and MP3 player probably all use lithium-ion batteries. They've been in widespread use since about 1991, but the basic chemistry was first discovered by American chemist Gilbert Lewis (1875-1946) way back in 1912.

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Lithium-ion is the most popular rechargeable battery chemistry used today. Lithium-ion batteries consist of single or multiple lithium-ion cells and a protective circuit board. They are called batteries once the cell or cells are installed inside a ...

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Lithium-ion batteries (LIBs) are rapidly gaining popularity and replacing conventional battery types. To maximize the performance of these batteries, it's crucial to understand both their advantages and disadvantages.

A lithium-ion battery, also known as the Li-ion battery, is a type of secondary (rechargeable) battery composed of cells in which lithium ions move from the anode through an electrolyte to the cathode during discharge and back when charging.



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