

# Sodium-ion batteries are widely used in energy storage

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Currently, lithium-ion batteries (LIBs) dominate the market for energy storage. They power everything from smartphones to electric vehicles (EVs) to ...

Sodium-ion batteries (SIBs) are considered one of the most promising alternatives to LIBs in the field of stationary battery storage, as sodium (Na) is the most abundant alkali ...

OverviewMaterialsHistoryOperating principleComparisonRecent R& DCommercializationSee alsoDue to the physical and electrochemical properties of sodium, SIBs require different materials from those used for LIBs. SIBs can use hard carbon, a disordered carbon material consisting of a non-graphitizable, non-crystalline and amorphous carbon. Hard carbon's ability to absorb sodium was discovered in 2000. This anode was shown to deliver 30...

Recent studies have focused on modifying the microstructure and surface chemistry of hard carbon to improve its performance as an anode material for sodium-ion batteries (SIBs).

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