

# Thin film solid state battery

OverviewBackgroundComponents of thin film batteryAdvantages and challengesScientific developmentApplicationsThe thin-film lithium-ion battery is a form of solid-state battery. Its development is motivated by the prospect of combining the advantages of solid-state batteries with the advantages of thin-film manufacturing processes. Thin-film construction could lead to improvements in specific energy, energy density, and power density on top of the gains from using a solid electrolyte. It a...

The all-solid-state battery (ASSB) that uses solid-state electrolyte has become a research trend because of its high safety and increased capacity. The solid-state thin-film u-battery belongs to the family of ASSB but in a small ...

A safer battery chemistry has been achieved with the all solid-state Lithium thin film battery based on a cathode made from Lithium Cobalt Oxide, an electrolyte of Nitrogen-doped Lithium Orthophosphate (LiPON) and an anode of Lithium (Li) ...

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