

All solid state thin film battery

Here, the first successful fabrication of all-solid-state thin-film Li-Se batteries is reported, featuring an ultra-thin (1.4×10^{-3} m) lithium phosphorus oxynitride solid electrolyte and a hybrid Se cathode supported by vertical ...

An all-solid-state thin-film battery (ASSTFB) is a kind of solid-state battery in the form of a thin film whose total thickness is at the micron level, which has high capacity, long cycle life, excellent mechanical strength, and ...

Lithium phosphorus oxygen nitrogen (LiPON) as solid electrolyte discovered by Bates *et al.* in the 1990s is an important part of all-solid-state thin-film battery (ASSTFB) due to its wide electrochemical stability window and ...

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 ...



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