
Researchers develop a non-flammable quasi-solid-state lithium-ion battery, combining liquid and solid electrolytes for enhanced safety and durability.

To overcome these challenges, a team of researchers from Japan has developed a non-flammable quasi-solid-state LIB that can overcome the limitations of conventional batteries.

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Researchers from Doshisha University, Japan, develop a ...

In quasi-solid-state batteries, a solid electrolyte sheet is sandwiched between a negative and a positive electrode as a substitute for a microporous membrane separator in ...

OverviewRationaleTypesPreparation methodsSafetySourcesA semi-solid-state battery (also formally known as a quasi-solid-state battery, QSSB) is a type of rechargeable battery that serves as an intermediate technology between conventional lithium-ion batteries (LIB) with liquid electrolytes and all-solid-state batteries (ASSB) using a hybrid solid-liquid semi-solid-state electrolyte. The primary goal of this technology is to improve battery safety by reducing the amount of flam...

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Herein, we propose quasi-solid-state anode-free batteries containing lithium sulfide-based cathodes and non-flammable polymeric gel electrolytes. Such batteries exhibit an ...

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A study from Doshisha University aimed to develop a novel flame-retardant quasi-solid-state battery by combining solid and liquid electrolytes. With higher safety and durability ...

Researchers from Doshisha University, Japan, develop a novel quasi-solid-state lithium-ion battery (LIB) with non-flammable solid and liquid electrolytes. The battery has ...

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