

All-solid-state lithium-sulfur battery based on a nanoconfined LiBH_4 electrolyte

The main goals in the current research in the battery field is to increase safety and energy density. Present Li-ion battery electrolytes typically consist of lithium salts dissolved in organic solvents. (1) Solid-state electrolytes ...

In this work we characterize all-solid-state lithium-sulfur batteries based on nano-confined LiBH_4 in mesoporous silica as solid electrolytes. The nano-confined LiBH_4 has fast ionic lithium conductivity at room temperature, 0.1 mS cm^{-1} , ...



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Web: <https://solarcomplete.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

