All-solid-state lithium-sulfur battery based on a nanoconfined libh4 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 LiBH4in mesoporous silica as solid electrolytes. The nano-confined LiBH4has fast ionic lithium conductivity at room temperature, 0.1 mScm-1, ...

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