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In this paper, a thin-film composite membrane with ultrathin polyamide selective layer is found to break the trade-off between ion selectivity and conductivity, and dramatically improve the ...

Here, a facile strategy is reported for regulating mass transport and enhancing battery cycling stability by employing thin film composite (TFC) membranes prepared from a PIM polymer with ...

Thin-film batteries are revolutionizing portable electronics and IoT devices with their compact design and flexible form factors. Unlike traditional batteries, these ultra-thin power...

However, most of the thin-film electrodes developed to date suffer from high mass transport resistance and deliver unsatisfactory performance. In this work, we proposed a dual ...

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To determine the thicknesses of polyamide thin films, membranes were encapsulated with epoxy resin (EPON812) and sliced into sub 100 nm slices with a slicer (LEICA EM UC6).

At its core, a thin-film battery consists of multiple micro-layers stacked to create a compact power source. These layers include an anode, cathode, electrolyte, and current ...

A membrane with both high ion conductivity and selectivity is critical to high power density and low-cost ow batteries, which are of great importance for the wide application of renewable ...

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