

The charging process in any Li battery can be broken down into the following four steps 1, 11 (Figure 1A): (1) Li-ions diffuse from the solid cathode material into the electrolyte; (2) Li-ions in the electrolyte diffuse from the cathode to the electrolyte/anode interface under the action of a potential difference; (3) solvated Li-ions undergo de-solvation at the ...

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ad-atom diffusion on a crystalline In substrate.23 In addition, after alloying with Li, the formed LiIn alloy maintains the lowest diffusion energy barrier of 0.015 0.26 eV of all possible alloy compositions (LixIn, x = 0.33-4.33). 25 The electrochemical reaction ki- netics of Li at an In anode were also investigated.

Energy Storage Materials, 57 269-276 (2023). S. Jayasubramaniyan, Hyun-Wook Lee \* " Directing battery chemistry using side-view operando optical microscopy " Korean Journal of Chemical Engineering, 40 (3) 488-496 (2023). (Invited Review Paper)

Electrode materials that enable lithium (Li) batteries to be charged on timescales of minutes but maintain high energy conversion efficiencies and long-duration storage are of scientific and technological interest. They are fundamentally challenged by the sluggish interfacial ion transport at the anode, slow solid-state ion diffusion, and too fast electroreduction reaction ...

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