

Can capping agents manipulate electrochemical behavior?

This work provides a proof-of-concept of capping agents in manipulating electrochemical behaviors, which should inspire and pave a new avenue of research to address the challenges in practical energy storage beyond AZIBs.

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Does capping agent affect the cathode material?

DFT and MD simulations were performed to provide theoretical insights into the effect of the capping agent on the cathode. The absorption energy of the capping agent on the cathode material was calculated to be -2.18 eV, higher than that of water molecules (-0.202 eV) (Figure 6g).

Who are cab special batteries?

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Are capping agents useful in azibs?

Inspired by the critical role of capping agents in nanomaterials synthesis and bulk crystal growth, a series of capping agents are employed to demonstrate their applicability in AZIBs.

Can capping agent molecules absorb on the cathode surface?

The absorption energy of the capping agent on the cathode material was calculated to be -2.18 eV, higher than that of water molecules (-0.202 eV) (Figure 6g). This indicates that capping agent molecules can absorb on the cathode surface, forming a capping agent-enriched dynamic CEI (Figure 6i).

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