

Single ion conductive organic/inorganic protection layer for advanced lithium metal batteries

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In this presentation, the single ion conductive organic/inorganic protection layer is introduced for improving the Li-metal coulombic efficiency. This single ion conductive layer has two advantages one is preventing the Li ion depletion on anode and the other is prevention of diffusional resistance along to boundary. Therefore, this protection layer can change the morphology of Li dendrite and Li-diffusivity which significantly affect to Li-metal efficiency.