Anode materials for solid-state batteries

His research interests focus on in situ transmission electron microscopy characterization of high-capacity electrode materials and solid-state electrolytes for alkali metal ...

This paper unveils a new phenomenon of constriction susceptibility for materials at such an interface, the utilization of which helps facilitate the design of an active three ...

In this review, we compare the silicon anodes with lithium metal anodes and other alloy anodes and explain the advantages of silicon-based anodes, as well as the formation and ...

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Anode and cathode materials are vital in solid-state batteries. Common anodes include metallic lithium, known for high energy density; silicon, which offers excellent capacity; ...

By discussing the use of these active materials and their existing problems, this review provides a comprehensive insight into the application of non-lithium metal anode materials.

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This review will provide some reports about the cycling properties of high-capacity anodes in the all-solid-state batteries and the solid electrolyte interface (SEI) formation at the anode interface of solid electrolytes.

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What materials are used in solid-state batteries? Key materials in SSBs include solid electrolytes (ceramics, polymers, composites), anodes (lithium metal, graphite), and ...

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