Special Issue

Lithium-Sulfur Batteries

Message from the Guest Editor

Lithium-sulfur batteries store and discharge energy using a reversible conversion reaction that has no restrictions in maintaining the initial crystal chemistry of the materials during cells' electrochemical cycling. As a novel energy-storage technology, the true potential or the full challenges of lithium-sulfur batteries are not yet clear, and there is a lack of practical analysis and investigation. Therefore, this Special Issue, "Lithium-Sulfur Batteries", will focus on the materials, cell designs, and battery engineering in understanding the fundamental importance of these factors when designing practical lithium-sulfur batteries.

Keywords

- lithium-sulfur batteries
- sulfur loading
- sulfur content
- electrode/sulfur ratio
- electrode design
- cycle life
- self-discharge
- lithium-anode stability
- cell-failure mechanism
- degradation

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