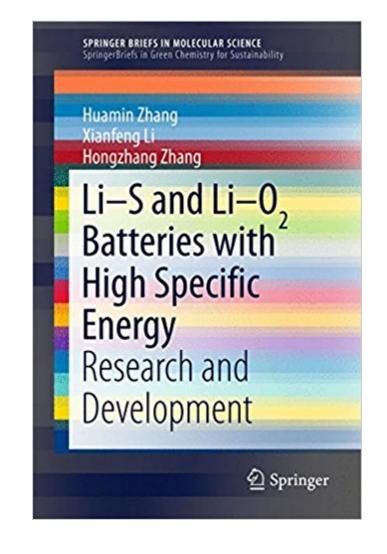


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Li-S And Li-O2 Batteries With High Specific Energy: Research And Development (SpringerBriefs In Molecular Science)





Synopsis

This brief reviews the fundamentals, recent developments, challenges and prospects of Li-S and Li-O2 batteries, including fundamental research and potential applications. It starts with a brief overview encompassing the current state of Li-S and Li-O2 battery technology. It then provides general information on Li-S and Li-O2 batteries, including the electrochemical processes and battery components. The following sections focus on the historical and recent development of Li-S and Li-O2 batteries respectively, offering detailed insights into the key material development, cell assembly, diagnostic test and mechanism of electrolyte decomposition. Lastly, it focuses on the main promising applications of Li-S and Li-O2 batteries together with their challenges and potential

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are discussed.

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