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Advance in Lithium-Sulfur Battery

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Message from the Guest Editors

Lithium-sulfur batteries (Li-S) have been recognized as very promising next-generation batteries due to their high theoretical capacities (1672 mAh g^{-1}) and high theoretical energy densities (2552 Wh kg^{-1}), low cost, and environmental friendliness. Furthermore, sulfur as an active material of the cell has certain advantages since it is an abundant element in nature, and it is considered an environmentally benign element compared to some transition metals used in lithium-ion batteries (LIBs).

This Special Issue on “Advances in Lithium-Sulfur Batteries” in *Energies* aims to present recent advances in the design and synthesis of new sulfur cathode structures, lithium metal protection, novel electrolyte formulations, separators and interlayers, binders, and current collectors. In addition, research works focused on electrochemical improvements, study of surface chemistry and in situ characterization, and scaling to pouch cells will be highlighted. Authors are invited to submit relevant full articles, short communications, and reviews.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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