Special Issue

Lithium–Sulfur Batteries: Progress and Prospects

Message from the Guest Editor

This Special Issue is addressed to specialists from all over the world who focus on lithium–sulfur batteries. We warmly invite the submission of original comprehensive reviews, case studies, and research articles on the following potential topics, but are not limited to:

- New composite materials as the cathode to enhance the battery cycle life and kinetics.
- Interface engineering on Li metal.
- Electrolytes and additives to improve electrochemical performance (and safety) of Li–S batteries.
- Solid electrolytes (gels, solid polymers, inorganic ceramics and inorganic–organic composites) for Li–S batteries.
- Insights into the sulfur reaction mechanism(s) using in situ or ex situ characterization techniques.
- Electrochemical impedance spectroscopy characterization of Li–S battery components and cells.
- Li–S pouch cell manufacturing, including high-loading electrode fabrication, electrolyte filling or cell activation.
- Modelling the electrochemical performance or aging mechanisms of Li–S cells.
- Life cycle assessment or second life of Li–S batteries.

Guest Editor

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Deadline for manuscript submissions

closed (28 April 2023)

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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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