



## Lithium–Sulfur Batteries: Progress and Prospects

Guest Editor:

**Dr. Jordi Jacas Biendicho**

Catalonia Institute for Energy  
Research-IREC, Sant Adrià de  
Besòs, 08930 Barcelona, Spain

Deadline for manuscript  
submissions:

**closed (28 April 2023)**

### 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.





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## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

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*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
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