Special Issue

Advances in Lithium-Sulfur Batteries

Message from the Guest Editor

Rechargeable lithium–sulfur (Li-S) batteries represent an attractive, "beyond Li-ion" battery technology because they offer a high specific energy of 2,500 Wh/kg at the material level and 550 Wh/kg at the cell level. However, Li–S batteries face substantial technical challenges that have, thus far, prevented the realization of the battery's tremendous performance potential. It is important to design and fabricate next-generation Li–S batteries that improve the energy density in order to improve the performance of technologies that utilize Li–S batteries, such as electric vehicles, robots, and Internet-of-Things (IoT) devices. I am open to receiving submissions on these topics:

- High-energy Li-S batteries;
- Flexible Li-S batteries:
- Sulfurized polyacrylonitrile cathode in Li-S batteries;
- Solid-state Li-S batteries:
- Anode protection in Li-S batteries;
- Advanced and lean electrolytes in Li-S batteries;
- Redox reaction mechanisms via in situ and ex situ studies in Li-S batteries.

Guest Editor

Dr. Amir Abdul Razzaq

Department of Mechanical Engineering, South Dakota School of Mines & Technology, 3922, Rapid City, SD 57701, USA

Deadline for manuscript submissions

closed (20 July 2023)



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Batteries
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
batteries@mdpi.com

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

Editor-in-Chief

Prof. Dr. Karim Zaghib

Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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