



Lithium-Sulfur Batteries

Guest Editor:

Dr. Sheng-Heng Chung

Department of Materials Science
and Engineering, National Cheng
Kung University, No.1, University
Road, Tainan City, Taiwan

Deadline for manuscript
submissions:

closed (31 January 2019)

Message from the Guest Editor

Dear Colleagues,

Lithium-sulfur batteries store and discharge energy using a reversible conversion reaction that has no restrictions in maintaining the initial crystal chemistry of the materials during cells' electrochemical cycling. As a novel energy-storage technology, the true potential or the full challenges of lithium-sulfur batteries are not yet clear, and there is a lack of practical analysis and investigation. Therefore, this Special Issue, "Lithium-Sulfur Batteries", will focus on the materials, cell designs, and battery engineering in understanding the fundamental importance of these factors when designing practical lithium-sulfur batteries.

Dr. Sheng-Heng Chung

Guest Editor

Keywords

- lithium-sulfur batteries
- sulfur loading
- sulfur content
- electrode/sulfur ratio
- electrode design
- cycle life
- self-discharge
- lithium-anode stability
- cell-failure mechanism
- degradation





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Karim Zaghib

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

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.

Author Benefits

Open Access:— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [Ei Compendex](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Electrochemistry) / CiteScore - Q1 (Electrical and Electronic Engineering)

Contact Us

Batteries Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/batteries
batteries@mdpi.com
[X@batteriesmdpi](https://twitter.com/batteriesmdpi)