



Lithium-Ion Batteries and Beyond: Outlook on Present and Future

Guest Editors:

Prof. Dr. Rui Xu

Prof. Dr. Xin Su

Dr. Zhenzhen Yang

Dr. Shitong Wang

Dr. Yutong Li

Deadline for manuscript
submissions:

closed (20 July 2023)

Message from the Guest Editors

Due to the advantage of high energy-density, lithium-based energy storage systems power our daily lives from smart phones to other consumer electronics. They also enable electrification of the transportation systems and provide stationary storage of energy in the electrical grid.

This Special Issue highlights key advances and urgent development of lithium-based batteries in the battery research community worldwide. We call for outstanding manuscripts, including reviews and original research articles, to be submitted to the open access journal *Batteries* (ISSN 2313-0105). The major scope of this issue will cover research areas in high-energy, long cycle life, fast charging and safe lithium-ion batteries and beyond lithium-ion battery technology. Research topics will provide trends in 1) advanced cathode materials with high energy and long cycle life; 2) next-generation anode materials; 3) electrolytes and additives; 4) engineering and scale-up of battery components and cells; 5) multi-scale range characterization of battery bulk materials and interfaces; 6) critical materials recycling; and 7) beyond lithium-ion battery technologies.





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 - Q2 (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](#)