

## Special Issue

# Advanced Electrode Materials for Emerging Post-lithium Metal-Ion Batteries

### Message from the Guest Editor

As a potential replacement for lithium-ion batteries, post-lithium-ion battery chemistries such as Na<sup>+</sup>, K<sup>+</sup>, Mg<sup>2+</sup>, Ca<sup>2+</sup>, Zn<sup>2+</sup>, and Al<sup>3+</sup> with high energy densities have promised to meet the increasing demand for safe and sustainable energy storage applications.

Discovering new cathode materials, unraveling their electrochemical mechanisms, and improving their performances are of great interest. Therefore, we are inviting papers in this Special Issue of *Batteries* which endorse current progress on this topic that focus on the development, improvement, and characterization of cathode materials for emerging post-lithium metal-ion batteries. We accept original research articles and reviews presenting experimental and computational studies of cathode materials for post-lithium metal-ion batteries.

---

### Guest Editor

Dr. Muhammad Hilmy Alfaruqi

Department of Materials Science and Engineering, Chonnam National University, 300 Yongbong-dong, Bukgu, Gwangju 61186, Republic of Korea

---

### Deadline for manuscript submissions

closed (20 January 2023)



## Batteries

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.3  
CiteScore 9.8



[mdpi.com/si/130692](https://mdpi.com/si/130692)

*Batteries*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[batteries@mdpi.com](mailto:batteries@mdpi.com)

[mdpi.com/journal/  
batteries](https://mdpi.com/journal/batteries)





# Batteries

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.3  
CiteScore 9.8



[mdpi.com/journal/  
batteries](https://mdpi.com/journal/batteries)



## About the Journal

### 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

---

### 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 - Q1 (Electrochemistry) / CiteScore - Q1 (Electrical and Electronic Engineering)