



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

Guest Editor:

Dr. Muhammad Hilmy Alfaruqi

Department of Materials Science
and Engineering, Chonnam
National University, Gwangju
61186, Republic of Korea

Deadline for manuscript
submissions:

closed (20 January 2023)

Message from the Guest Editor

Dear Colleagues,

As a potential replacement for lithium-ion batteries, post-lithium-ion battery chemistries such as Na^+ , K^+ , Mg^{2+} , Ca^{2+} , Zn^{2+} , and Al^{3+} 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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Andreas Jossen

Institute for Electrical Energy
Storage Technology (EES),
Technical University München
(TUM), Arcisstrasse 21, 80333
Munich, Germany

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](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Electrochemistry*) / CiteScore - Q2 (*Electrochemistry*)

Contact Us

Batteries Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/batteries
batteries@mdpi.com
[X@batteriesmdpi](#)