

Special Issue

Zinc-Based Batteries: Recent Progress and Future Perspectives

Message from the Guest Editors

Rechargeable zinc-based batteries are attractive candidates for energy storage systems owing to their safety, low cost, etc. However, the hazards caused by uncontrollable zinc dendrite growth and side reactions hinder their practical application. Therefore, fundamental investigations, advances and future perspectives on zinc-based batteries are necessary for improving the practical applications.

In this Special Issue, we will focus on innovative design strategies, performance improvements, mechanism analyses and novel electrode materials for zinc-based batteries. We would like to invite original research articles and comprehensive reviews, providing innovative research work and deep insights into zinc-based batteries. These research areas may include (but are not limited to) the following:

The design of highly stable aqueous Zn-batteries;
The design of highly stable solid-state Zn-batteries;
Advanced characterizations;
Mechanism analysis,
Zn-air batteries;
Zinc-based flow battery;
Hybrid zinc-ion batteries;
Dendrites formation, growth, and prevention.

We look forward to receiving your contributions.

Guest Editors

Dr. Yuan Tian

Dr. Yongling An

Dr. Liwen Tan

Deadline for manuscript submissions

closed (25 January 2024)



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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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Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia
University, Montréal, QC H3G 1M8, Canada

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