

## Special Issue

# Rechargeable Aqueous Zn-Ion Batteries

### Message from the Guest Editors

Aqueous zinc-ion batteries (AZIBs) are highly desirable as promising energy storage devices due to their high theoretical capacity, inherent safety, and environmental friendliness. However, their widespread deployment is critically impeded by inherent thermodynamic and electrochemical instabilities, which seriously affect their operational lifespan and safety. This Special Issue aims to collate and showcase cutting-edge research, insightful reviews, and forward-looking perspectives that offer fundamental insights and propose innovative strategies for the holistic advancement of high-performance AZIBs. Potential topics include but are not limited to:

- Advanced Electrolytes;
- Low-Temperature AZIBs;
- High-Performance Cathodes;
- Highly Reversible Zinc Metal Anode;
- Innovative Cell Configurations;
- Advanced Flexible AZIBs Design;
- AI/Machine Learning-Driven Design and Optimization of AZIBs;
- AZIBs in Smart Systems;
- Novel Applications and System-Level Integration of High-Performance AZIBs

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### Deadline for manuscript submissions

15 July 2026



## Batteries

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Impact Factor 4.8  
CiteScore 6.6



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## 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.

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