

## Special Issue

# High-Performance Secondary Batteries: Recent Processes and Future Challenges

### Message from the Guest Editor

The increased use of low-carbon energy is enhancing the demand for advanced secondary batteries. Beyond lithium-ion batteries, innovative alternatives such as sodium, potassium, aqueous zinc, and magnesium ion batteries have garnered attention in recent years. This Special Issue welcomes the submission of research addressing high-performance secondary batteries, the exploration of innovative materials, enhanced electrochemical performance, and improved safety and stability. Such studies will lead to vital advances in the development of battery technology and broaden the horizon for future energy storage solutions. The scope of this Special Issue includes, but is not limited to, the following topics: lithium-ion batteries and post-lithium-ion batteries, including sulfur-based batteries, sodium/potassium/zinc-ion batteries, and metal-air batteries.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 November 2025)



## Batteries

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### Editor-in-Chief

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