

## Special Issue

# Advances in Post-Lithium-Ion Energy Storage Devices

### Message from the Guest Editors

Pursuing post-lithium-ion batteries (PLIBs) is essential for advancing energy storage technologies, addressing cost and sustainability challenges, and meeting the growing demand for reliable and efficient energy storage solutions in a rapidly evolving energy landscape. Urgent and intensive research is required on the industrialization path of PLIBs, addressing challenges of new battery technologies. In this Special Issue, we are creating an exclusive platform to debate the potential of real battery competition against LIBs. The collection includes contributions discussing the latest advancements and emerging patterns in cutting-edge energy storage technologies. Contributions are encouraged to present both fundamental and applied research, addressing potential topics including, but not limited to, the following:

- Beyond lithium-ion battery chemistries (Na, K, Mg, Al, Ca-ion batteries);
- Metal-chalcogen batteries;
- Metal-air batteries;
- Aqueous Zn-ion batteries and their hybrids;
- PLIB configuration improvements;
- Modelling, simulation, and Life Cycle Assessment;
- Safety, reliability, and sustainability.

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### Deadline for manuscript submissions

closed (15 November 2024)



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### Message from the Editor-in-Chief

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