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Aqueous Zinc-Based Batteries: Issues and Opportunities

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Deadline for manuscript submissions:
closed (10 December 2024)

Message from the Guest Editors

Dear Colleagues,
This Special Issue aims to shed light on recent progress in the field of aqueous zinc-based batteries, spanning electrode innovations, electrolyte modifications, and the introduction of novel battery systems. Our goal is to provide valuable insights and guide future research in this promising area.

Potential topics for this Special Issue include, but are not limited to, the following:

- Innovations in electrodes and electrolytes for zinc-based batteries;
- Progress and challenges in zinc-based alkaline batteries;
- Advances in zinc air/oxygen batteries;
- Exploration of zinc gas batteries;
- Development of flexible zinc-based batteries;
- Environmental adaptability of aqueous zinc-based batteries;
- hybrid aqueous batteries incorporating zinc ions;
- Dual-ion battery systems utilizing zinc anodes;
- Optimization strategies aimed at enhancing the longevity and reliability of aqueous zinc-based batteries;
- Considerations for the industrialization of aqueous zinc-based batteries, including scalability, cost effectiveness, and market potential.

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Message from the Editor-in-Chief

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