Special Issue

Rechargeable Aqueous Batteries and Aqueous Interphases

Message from the Guest Editor

Rechargeable aqueous batteries have attracted increasing attention in recent years due to their high safety, cost-effectiveness, and environmental adaptability for potential applications in large-scale energy storage. However, the practical use of rechargeable aqueous batteries still faces critical issues, such as hydrogen generation from aqueous electrolytes and corrosion reactions, etc. In this Special Issue, we are looking for contributions related to the following topics:

- Development of high-performance cathode and anode materials for rechargeable aqueous batteries.
- Advancements in aqueous electrolytes.
- Development and modification of aqueous separators.
- Research on long-life aqueous batteries.
- Characterization techniques for aqueous electrolyte–electrode interphases.
- Theoretical simulations of multi-scale interphases reactions.

Guest Editor

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Deadline for manuscript submissions

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