

Special Issue

Advanced Materials and Interface Engineering for Next-Generation Aqueous Batteries and Micro-Energy Storage

Message from the Guest Editor

This Special Issue highlights state-of-the-art developments in electrode materials (e.g., high-capacity anodes/cathodes), electrolyte design (e.g., functional additives, low-temperature electrolyte, water-in-salt electrolyte), and interface engineering (e.g., SEI layers, surface modifications) to enhance electrochemical stability, reaction kinetics, and cycle life. Additionally, the collection further explores micro energy storage technology for implantable/wearable electronics, broadening the applications of aqueous batteries. We welcome submissions on advanced materials, mechanism studies, and preparation technologies to this Special Issue, and hope you will join us in promoting the development of aqueous energy storage technologies. Potential topics include, but are not limited to:

- Novel aqueous battery systems;
- Advanced materials, electrolytes, and interface engineering for high-performance aqueous batteries;
- Mechanism studies of aqueous batteries;
- Manufacturing methods for aqueous battery production.

Guest Editor

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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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