

## Special Issue

# Advanced Electrode Materials for Aqueous Batteries

### Message from the Guest Editor

Aqueous batteries have emerged as a cornerstone for safe and sustainable energy storage, leveraging non-flammable electrolytes and cost-effective manufacturing. Despite their advantages, challenges such as limited energy density and life cycles persist, driven by the inherent limitations of electrode materials. Recent advancements highlight the potential of innovative material design to overcome these barriers, enabling high-performance aqueous battery systems. This Special Issue focuses on advanced electrode materials for aqueous batteries, inviting original research and reviews on novel synthesis methods, material architectures, and mechanistic studies. Topics include nanostructured/composite materials, surface/interface engineering, ion storage mechanisms, and strategies to enhance electrochemical stability and conductivity. Submissions exploring Li/Na/Zn-ion, multivalent-ion, and hybrid aqueous batteries are encouraged, alongside computational insights guiding material development.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 January 2026)



## Molecules

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CiteScore 8.6  
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### Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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