

## Special Issue

# Molecular Advances in Electrochemical Materials

### Message from the Guest Editor

This Special Issue highlights advancements in the molecular design and engineering of electrochemical materials, which are crucial for tackling global energy and environmental challenges. It focuses on improving the performance, efficiency, and sustainability of electrochemical systems used in energy storage, conversion, and sensing. By emphasizing materials like nanostructures, composites, and catalytically active compounds, the issue aims to present innovative solutions in electrochemical science. Researchers are invited to submit their work on sustainable, high-performance materials relevant to next-generation applications. Potential authors are encouraged to submit works that align with the topics focused on in this Special Issue, which include the following:

- Molecular design of advanced electrochemical materials;
- Nanostructured materials for energy storage;
- Electrochemical sensors and biosensors;
- Conductive polymers and composites;
- Electrocatalysis and sustainable applications;
- Molecular-level insights into material performance;
- Interface engineering for enhanced electrochemical activity;
- Green and sustainable electrochemical materials.

### Guest Editor

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### Deadline for manuscript submissions

20 September 2025



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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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