



an Open Access Journal by MDPI

## A Perspective on Novel Electrochemical Capacitors and Batteries

Guest Editors:

### Dr. Pei Hu

School of Science, Hubei  
University of Technology, Wuhan  
430068, China

### Dr. Yuyu Li

Key Laboratory of Optoelectronic  
Chemical Materials and Devices,  
Ministry of Education, School of  
Optoelectronic Materials &  
Technology, Jiangnan University,  
Wuhan 430056, China

### Dr. Peng Yu

Wuhan National Laboratory for  
Optoelectronics, Huazhong  
University of Science and  
Technology, Wuhan 430074,  
China

Deadline for manuscript  
submissions:

**31 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Chemical research plays a crucial role in advancing electrochemical capacitors and batteries. It focuses on understanding and improving the chemical processes that occur within these energy storage devices, with the goal of enhancing their performance, safety, and environmental sustainability. This year, the journal *Molecules* will publish a Special Issue of papers featuring selected contributions on novel electrochemical capacitors and batteries. As Guest Editors of this Special Issue, we are writing to invite you to contribute a research paper, rapid communication, perspective or review article on your latest research activities in, but not limited to, the following aspects: electrode materials, electrolytes, facilitate rapid ion diffusion, electrochemical reactions, catalysts, diagnostics and characterization, flame-retardant additives and electrolyte formulations, environmentally friendly materials, and novel batteries.

Dr. Pei Hu

Dr. Yuyu Li

Dr. Peng Yu

Guest Editors



[mdpi.com/si/185227](https://mdpi.com/si/185227)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical  
Biology and Phytochemistry,  
University of Münster,  
Corrensstrasse 48, D-48149  
Münster, Germany

## Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

## Contact Us

---

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](#)