

## Special Issue

# Electrode Materials and Electrolytes in Supercapacitors

### Message from the Guest Editors

Supercapacitors (SCs) have attracted significant interest over the past several decades owing to their superior energy density (compared with conventional capacitors), good power density (compared with batteries), rapid charge/discharge rates and long lifecycle. However, we are still far from the optimal performance of supercapacitors, which can fulfil energy demands.

Typically, the electrode materials and electrolytes define the performance of supercapacitors. In this context, significant efforts have been made to improve the electrochemical performance of SCs by designing new materials and developing new electrolytes. This Special Issue of *Molecules*, "Electrode Materials and Electrolytes in Supercapacitors", is planned to attract a broad and interdisciplinary audience and cover recent advancements in:

- Electrode materials
- 2D electrode materials
- Polyoxometalate-based supercapacitors
- Hybrid materials
- Electrolytes
- Polymer gel-electrolytes
- Simulation and modelling for supercapacitors
- Symmetric and asymmetric supercapacitors
- Integrated supercapacitors

### Guest Editors

Dr. Deepak P. Dubal

School of Chemical Engineering, The University of Adelaide, Adelaide, SA 5005, Australia

Prof. Dr. Yuping Wu

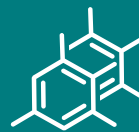
Cochair of IUPAC International Conference on Novel Materials and Their Synthesis (NMS)([www.nms-iupac.org](http://www.nms-iupac.org)) Dean, School of Energy Science and Engineering, Nanjing Tech University, Nanjing 211816, China

Prof. Dr. Rudolf Holze

Technische Universität Chemnitz, D-09107 Chemnitz, Germany

### Deadline for manuscript submissions

closed (15 October 2019)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/24213](https://mdpi.com/si/24213)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).