

## Special Issue

# Fabrication of Graphene and Other 2D-Materials-Based Nanocomposites for Hydrogen Production

### Message from the Guest Editor

Hydrogen (H<sub>2</sub>) has been deemed as the most promising and valuable alternative to nonrenewable fossil fuels. In recent decades, two-dimensional (2D) materials including graphene, MXene, and transition metal sulfides, as well as their nanocomposite materials, have attracted extensive research interest in the field of H<sub>2</sub> production due to their merits of a large specific surface area, high electrical conductivity, abundant reactive sites, and so on. This Special Issue aims to collect advanced research achievements on the fabrication of 2D-materials-based nanocomposites and their applications for electrocatalytic and photocatalytic H<sub>2</sub> evolution.

### Guest Editor

Dr. Panyong Kuang

School of Materials and Chemistry, China University of Geosciences, Wuhan, China

### Deadline for manuscript submissions

closed (15 September 2022)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/113688](https://mdpi.com/si/113688)

*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).