

## Special Issue

# Nanomaterials: Design and Application in Photodegradation

### Message from the Guest Editor

The increasing demand for photocatalytic materials has raised substantial interest in interdisciplinary fields of science that encompass chemistry, physics, and materials. Semiconductors have many practical applications. They are considered essential for environmental applications, which include the removal of organic pollutants, quantitative analysis for pollutant detection, and photocatalytic degradation. In the synthesis of semiconductor nanostructures, it is known that varying temperatures, synthesis methods, pH, and doping or co-doping could be advantageous for various photocatalytic reactions. We are inviting you to present your recent work on semiconductors in our Special Issue. We look forward to receiving your contributions.

### Guest Editor

Dr. Luciano Costa Almeida

Departamento de Engenharia Química, Universidade Federal de Pernambuco, Recife 50670-901, Brazil

### Deadline for manuscript submissions

15 December 2025



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/243378](https://mdpi.com/si/243378)

*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).