

## Special Issue

# Exploration in Photothermal Reactions Catalyzed by Metals

### Message from the Guest Editors

Photo-thermal catalysis has emerged as a rapidly evolving area in recent years at the intersection of catalysis, energy chemistry, and materials science. Harnessing the versatile catalytic properties of metals to drive chemical transformations with a synergistic combination of photo- and thermochemical contributions provides a promising approach centered around tuning the selectivity toward specific products through photochemical in conjugation with thermal pathways. To capture the cutting-edge advancements in this field, this Special Issue aims to gather cutting-edge research and insights into photothermal transformations that synergistically utilize metals and light. Original research papers, as well as review articles, are both welcome.

---

### Guest Editors

Prof. Dr. Xufeng Lin

College of Chemistry and Chemical Engineering, China University of Petroleum (East China), Qingdao, China

Dr. Lishuang Ma

College of Chemistry and Chemical Engineering, China University of Petroleum (East China), Qingdao, China

---

### Deadline for manuscript submissions

closed (31 January 2025)



## Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/194181](https://mdpi.com/si/194181)

*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 molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of 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 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).