

## Special Issue

# Ultrasound, Sonochemistry and Innovative Separation Technologies Applied to Chemical and Environmental Engineering

### Message from the Guest Editors

In the context of moving toward green processes and lowering carbon emissions related to chemical and environmental engineering, innovative separation technologies and ultrasound-assisted techniques are today being presented as promising alternatives for conventional processes in wastewater treatment, synthesis, material science, and beyond. The present Special Issue aims to gather in one place a panoply of recent innovations in separative and ultrasound-based processes applied to chemical and environmental engineering, including, for instance, adsorption, sonophysical effects, and sonochemistry. Papers dealing with theoretical approaches, numerical modeling and simulation, experimental investigations, and proofs of concept are welcome. Studies highlighting aspects of greener processes are highly encouraged. The papers published in the present Special Issue are expected to be of interest to a wide multidisciplinary scientific community, ranging in focus from chemistry, physics, and chemical and environmental engineering to material science.

### Guest Editors

Prof. Dr. Oualid Hamdaoui  
Prof. Dr. Slimane Merouani  
Dr. Kaouther Kerboua

### Deadline for manuscript submissions

closed (28 February 2022)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 5.1  
CiteScore 10.3  
Indexed in PubMed

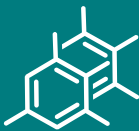


[mdpi.com/si/80023](https://mdpi.com/si/80023)

*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 5.1  
CiteScore 10.3  
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 15.6 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2026).