

## Special Issue

# Nanocomposites Synthesis, Functionalization and Applications for Medical Purposes

### Message from the Guest Editors

Quite a few scientific areas have significantly benefited from the introduction of nanotechnology, and it is especially noteworthy in the development of new drug substances and products. Over the last few years, the application of nanotechnology for medical purposes has attracted great attention in the use of nanomaterials for the diagnosis, monitoring, control, prevention, and treatment of diseases. Their unique size-dependent properties make these materials superior and indispensable in addressing the growing demands of enhanced human life expectancy and quality of life. In addition, the combination of several components can not only coat the surface of nanoparticles in order to enhance their biocompatibility and stability but may also provide the substrate for functional nanoparticles growing on their surface to reach multifunction. This research topic intends to invite researchers to contribute studies on recent advances in nanocomposites for drug delivery, diagnosis, and the like, which enables a better understanding of the role of nanocomposites as a theranostic agent.

### Guest Editors

Prof. Dr. Yanyan Jiang

Key Laboratory for Liquid-Solid Structural Evolution & Processing of Materials (Ministry of Education), School of Materials Science and Engineering, Shandong University, Jinan 250061, China

Prof. Dr. Xijian Liu

Chemical Engineering Department, Frontier Medical Technologies Institute, Shanghai University of Engineering Science, Shanghai 201620, China

### Deadline for manuscript submissions

closed (31 July 2024)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/140604](https://mdpi.com/si/140604)

*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).