Special Issue

Synthesis, Characterization and Biological, Medical and Environmental Applications of Biological Products and Bio-Based Nanomaterials or Composites

Message from the Guest Editor

This Issue welcomes recent advancements in biosynthesis, characterization of bio-based composites and nanomaterials and their biological, medical and environmental applications. In this Special Issue, we invite researchers to submit their original research and review articles. General topics include but are not confined to the below:

- The production, characterization, and use of biobased nanoparticles.
- Applications of bio-based nanoparticles in medicine (drug and vaccine delivery, anticancer and antibacterial agent, and wound healing).
- The use of bio-based nanoparticles in bioremediation and adsorption.
- Energy and electrical uses of nanoparticles derived from biomaterials.
- Bio-based nanoparticles used in applications related to food safety.
- Bio-based nanomaterials for applications transforming food waste.
- Enzymatic nano-bioprocessing applications using biobased nanomaterials.
- Processing of green composites.
- Characterization and structure-property connections of green composites.

Guest Editor

Prof. Dr. Renad I. Zhdanov

Department of Pharmacolog, Kazan Federal University, Kazan, Russia

Deadline for manuscript submissions

closed (29 February 2024)



Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/162738

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules





Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 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).

