

## 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 bio-based 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 bio-based nanomaterials.
- Processing of green composites.
- Characterization and structure-property connections of green composites.

### Guest Editor

Prof. Dr. Renad I. Zhdanov

Department of Pharmacology, Kazan Federal University, Kazan, Russia

### Deadline for manuscript submissions

closed (29 February 2024)



## Molecules

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*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

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## 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.

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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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#### 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).