# **Special Issue**

# New Approaches in the Synthesis of Organophosphorus Compounds

# Message from the Guest Editors

The "green transformation" we are witnessing impacts every aspect of life and poses increasingly difficult challenges in the field of chemical synthesis, including organophosphorus compound preparation. New solutions and ideas are desirable that are characterized not only by greater efficiency but, above all, by care for environmental protection and the principles of sustainable development. In this context, optimization of synthesis conditions (e.g., reducing energy costs and reagent consumption, etc.), using eco-friendly solvents (e.g., ILs, NADES, and DES), and reusable reagents (e.g., solid-supported catalysts, and smart reagents) are crucial. Microwave or ultrasound assistance and organic electrosynthesis, as well as synthesis under highpressure conditions or mechanochemistry, became powerful tools for conducting reactions in a modern and environmentally friendly way.

### **Guest Editors**

Dr. Jakub Adamek

- Department of Organic Chemistry, Bioorganic Chemistry and Biotechnology, Faculty of Chemistry, Silesian University of Technology,
- B. Krzywoustego 8, 44-100 Gliwice, Poland
- Biotechnology Center, Silesian University of Technology, B. Krzywoustego 8, 44-100 Gliwice, Poland

# Dr. Jacek Nycz

Institute of Chemistry, Faculty of Science and Technology, University of Silesia in Katowice, ul. Szkolna 9, 40-006 Katowice, Poland

# Deadline for manuscript submissions

10 March 2026



# **Molecules**

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/253898

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).

