# **Special Issue**

# Design and Synthesis of Macrocyclic Compounds

### Message from the Guest Editor

The chemistry of macrocyclic compounds has a long history. From simple annulenes to powerful antibiotics, these molecules are united by one thing—the presence of a molecular cavity. Due to this property, macrocyclic molecules are unique synthons in supramolecular chemistry capable of intermolecular quest-host interactions with other molecules. Recently, of particular interest are the functional supramolecular macrocyclic systems capable of self-organization, which makes it possible to obtain smart materials on their basis for sensing, targeted drug delivery, and catalysis in green media. Changes in the structure and the introduction of new motifs into the macrocyclic framework allow researchers to modify existing ones and discover new properties of these molecules. This Special Issue aims to familiarize readers with the most modern trends and achievements in the field of macrocyclic chemistry with a special focus on both the synthetic chemistry of macrocyclic compounds as well as the usage of macrocyclic compounds in molecular recognition, nanotechnology, catalysis, and biotechnology.

### **Guest Editor**

Dr. Vladimir Burilov

Department of Organic Chemistry, Kazan Federal University, 420008 Kazan, Russia

### Deadline for manuscript submissions

closed (31 July 2023)



# **Molecules**

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/98254

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).

