Special Issue

Synthesis and Application of Organic Molecules Based on Symmetry

Message from the Guest Editors

Symmetry is a fundamental concept across many scientific disciplines. In chemistry, it plays a crucial role in molecular structures, directly influencing their functions and properties. In recent years, significant advancements have been made in organic synthesis, including asymmetric catalysis. Scientists' understanding of symmetry and asymmetry, along with their ability to precisely control chirality, has advanced remarkably, paving the way for new applications. This Special Issue highlights research on organic molecules, encompassing a wide range of topics, including organic synthesis, stereochemistry, structural analysis, molecular properties, organic physics, material development, and sensor technology. Additionally, it covers studies on dyes, fragrances, food additives, pharmaceuticals, and other related fields. We welcome submissions from researchers working with both small organic molecules and macromolecules exhibiting symmetric or asymmetric structures.

Guest Editors

Dr. Jian Zhang

Howard Hughes Medical Institute, The University of Chicago, Chicago, IL 60637, USA

Dr. Xiaoyang Dong

School of Physical Sciences, Great Bay University, Dongguan 523000, China

Deadline for manuscript submissions

28 February 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/235627

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI