

# Special Issue

## Current Status and Progress in Research on Molecular Symmetry

### Message from the Guest Editors

This Special Issue invites the submission of scientific manuscripts exploring various aspects of symmetry in the structural organization and the chemical and physical properties of molecules. We welcome symmetry studies that lead to the improvement and understanding of biomolecular structures and their interaction with drugs, opening new avenues in personalized medicine. Innovative approaches for predicting the electronic and optical properties of complex molecules, particularly those with implications in nanotechnology and catalysis, are also encouraged. Submissions addressing group theory and symmetry, as well as spectroscopic applications that allow modeling new functional materials with applications in biology and contemporary theoretical chemistry, are highly relevant. Furthermore, studies on chirality, liquid crystals, or supramolecular structures, especially those linked to symmetries/asymmetries, are invited. We also encourage submissions that explore applications in nanotechnology or pharmacology, as well as those presenting innovative experimental techniques for analyzing symmetry/asymmetry in molecules.

### Guest Editors

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### Deadline for manuscript submissions

30 October 2025



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## 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.

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### Editor-in-Chief

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