

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.

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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

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