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Chirality and Symmetry in Stereochemistry

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The different orientations of atoms of molecules in the three-dimensional (3D) orientation in space create plenty of exiting molecular structures and generates the subject of stereochemistry. Stereochemistry spans the entire spectrum of chemistry disciplines, from traditional organic, inorganic, physical chemistry, and biochemistry, to sub-branches, such as supramolecular, organometallic, medicinal, and material chemistry, and also other scientific disciplines.

An extremely important chapter of stereochemistry is chirality. The term chiral is applied to molecules whose asymmetry results in handedness, that is, the existence of a pair of non-superimposable mirror-image shapes as illustrated by the relationship between one's right and left hands. A very important consequence of chirality is that it influences the functional properties of molecules in an enormous way, not only in chemistry and biology, but in mathematics, physics, materials, etc...

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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.

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