Special Issue

Chiral Molecules: Properties, Synthesis and Analysis

Message from the Guest Editor

Chirality is a fundamental dimension in molecular structure and plays a central role in living processes, in the transfer of biological intra- and inter-species information as well as in the activity and properties of exogenous compounds as drugs, agrochemicals, flavours, and food additives. Historically isolated from natural sources, chiral compounds require targeted strategies for their synthesis and separation in optically active forms that can be obtained through stereoselective interactions with other chiral components, as reagents/catalysts or chromatographic supports. Although the nature continues to be the origin of an astonishing chiral diversity and complexity, the developments in asymmetric synthesis have led to a wide portfolio of chiral molecules nowadays accessible, thanks to the huge variety of catalysts and stereoselective reactions available...

Guest Editor

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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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