

Symmetry of Chiral Molecules and Materials

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Message from the Guest Editor

Dear Colleagues,

Chirality is a symmetry property that has a profound influence on optical, electric, and magnetic properties of molecules, as well as on spin-controlled chemical reactions. The discovery of the Chirality-Induced Spin Selectivity (CISS) effect has opened up a broad research field on a type of magnetic response that depends on electron transport and not on external magnetic fields. This Special Issue is devoted to the study of the influence of chirality on issues that are especially relevant in quantum biology, including length and temperature dependence in spin-polarized transport.

Prof. Dr. Vladimiro Mujica
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.

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