

Special Issue

Symmetry, Structure and Dynamics in Molecular Systems

Message from the Guest Editors

The development of novel, advanced, functional products requires a deep understanding of the relationships between the broadly considering structure and physicochemical properties of materials. The design of materials and systems with precisely defined properties should start from the design and synthesis of a single molecule, as the low-order structure determines the structures of higher orders. Symmetry is one of the crucial aspects influencing the structure, properties (including molecular dynamics), and applicability of a given system. It may be found in mathematics, logic, architecture, biological systems, material science, arts, and even music. This Special Issue will attempt to cover the field of symmetry at all these levels in various materials and systems. Articles devoted to the structure and dynamic properties of different materials, including organic, inorganic, as well as hybrid ones, are warmly welcomed. Both experimental and theoretical studies, as well as the results of simulations, will be considered.

Guest Editors

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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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