Special Issue

Symmetry in Quantum and Computational Chemistry, Volume 2

Message from the Guest Editor

This Special Issue is intended as a natural extension of the previous Special Issues, entitled, "Symmetry in Quantum and Computational Chemistry". The problem of symmetry in quantum and computational chemistry is a paradigm of development of this field of knowledge. Modern ab initio and semi-empirical methods as well as density functional theory widely use the group theory formalism for investigation of nature and various properties of different periodic chemical systems (crystalline solids, polymers, surfaces and films, nanotubes) and molecules. Researchers in various fields of theoretical chemistry and related disciplines (physics, crystallography, mathematics, computer software development) are welcome to submit their works on this topic in our Special Issue “Symmetry in Quantum and Computational Chemistry”. The aim of this Special Issue is to highlight and overview modern trends and attract the attention of the scientific community to the problem of symmetry in quantum and computational chemistry.

Guest Editor

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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.

Editor-in-Chief

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