



an Open Access Journal by MDPI

# Symmetry in Quantum and Computational Chemistry

Guest Editor:

### Dr. Alexander S. Novikov

Institute of Chemistry, Saint Petersburg State University, Universitetskii pr., 26, Petergof, 198504 St. Petersburg, Russia

Deadline for manuscript submissions: closed (15 May 2023)

### Message from the Guest Editor

Dear Colleagues,

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.

All types of papers (reviews, mini-reviews, full papers, short communications, and technical notes, highlights) are welcome for consideration.









an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain 2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

### 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.

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics )

## **Contact Us**

*Symmetry* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/symmetry symmetry@mdpi.com X@Symmetry\_MDPI