

Symmetry in Chemical Physics: Applications in Molecular and Biomolecular Systems

Guest Editors:

Prof. Dr. José Luis Paz

Departamento Académico de
Química Inorgánica, Facultad de
Química e Ingeniería Química,
Universidad Nacional Mayor de
San Marcos, Cercado de Lima
15081, Peru

Prof. Dr. Ysaías J. Alvarado

Center of Molecular Biomedicine,
Laboratory of Theoretical and
Experimental Biophysical
Chemistry, Venezuelan Institute
of Scientific Research (IVIC),
Maracaibo-Edo Zulia, Venezuela

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Message from the Guest Editors

Dear Colleagues,

Chemical physics is an area that is characterized by its rigor and formality in its approaches, supported by theories and laws that enable a more detailed understanding of the molecular structure, its properties and the processes that take place. It is a science that has expanded in recent years with contributions from biology, chemistry, physics, computation, mathematics, providing an increasingly interesting multidisciplinary spectrum of science...

This Special Issue is dedicated to the study of processes, mechanisms and properties at the molecular and biomolecular level, where aspects of symmetry play an important role. It provides an advanced space for molecular biology, theoretical and computational chemistry, computational chemistry–biophysics, biochemistry, with an emphasis on physicochemical aspects and symmetry. Additionally, in this Special Issue, there is great interest in the studies that involve the shape and symmetry of biomolecules and their relevance in biological recognition in physiological environments and under macromolecular crowding.

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Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-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.

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Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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