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Nanotechnology and Symmetry

Guest Editor:

Prof. Dr. Stefano Bellucci
INFN-Laboratori Nazionali di
Frascati, 00044 Frascati, Italy

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Message from the Guest Editor

Dear Colleagues,

Nanotechnology plays an important role in modern society, and will be the focus of increased interest in the near future. This interest derives from the manifold possible applications, but also stems from the exceptional properties that characterize nanomaterials, often due to their beautiful symmetry features. Research about symmetry in nanoscience is making enormous strides, and it is important to spread these discoveries to assist the scientific community and to provide inspiration for future research. Topics such as symmetries and interactions in graphene honeycomb lattice, the symmetries of graphene-related materials, e.g., two-dimensional transition metal dichalcogenides, chiral symmetry and its breakdown, Raman spectroscopy and the mathematical description of symmetry as related to molecules and crystals, dynamical symmetries in quantum dots, and quantum symmetry breaking in single-spin systems are all to be included in this Special Issue.



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Special Issue



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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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Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI