

## Special Issue

# Symmetry in Nanomaterials: Synthesis and Applications

### Message from the Guest Editor

Symmetry in crystalline structure for functional materials is very important for tuning physical and chemical properties such as the surface energy, binding energy, band structure, charge mobility and so on.

Nanomaterials are widely used in a variety of manufacturing processes, nanodevices, sensors, catalysts and healthcare applications, including use in paints, filters, insulation and lubricant additives.

Therefore, it is necessary to investigate the interconnection of crystal symmetry and with nanomaterials function, propelling the further application of nanomaterials in differentiated applications. The aim of the present Special Issue of *Symmetry* titled "Symmetry in nanomaterials: synthesis and applications" is to collect and present contributions on the synthesis and application of nanomaterials, including two-dimensional materials, nanocatalysts, and sensors, emphasizing the phenomena that lie at the crossroads between the concept of symmetry and two-dimensional materials, as well as other nanomaterials.

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### Guest Editor

Dr. Qingliang Feng

School of Chemistry and Chemical Engineering, Northwestern Polytechnical University, Xi'an, China

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### Deadline for manuscript submissions

closed (15 February 2023)



## Symmetry

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*Symmetry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC),  
C. Can Magrans s/n, 08193 Barcelona, Spain

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