



symmetry



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Symmetry in Advanced Materials and Nanotechnology

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Deadline for manuscript
submissions:

closed (28 February 2025)

Message from the Guest Editor

Dear Colleagues,

Symmetry is a physical feature that is preserved under transformation; in fact, practically all natural rules originate from symmetry. Hence, breaking the symmetry of layered materials, such as graphene, can amend their electrical, optical, magnetic and topological properties. The typical symmetries are inversion, rotational, time-reversal and gauge, which can be broken by electric and magnetic fields, interlayer twisting, crystal phase control, band and strain engineering, and so on.

We invite you to submit your work to this Special Issue “Symmetry in Graphene and Nanotechnology”. This Special Issue is seeking high-quality contributions related to the symmetry breaking behaviors of graphene and graphene-based moiré superlattices (and others). Moreover, studies on nanotechnology-related topics, especially atomic force, scanning tunneling and scanning transmission electron microscopy, are also welcome.



mdpi.com/si/194084

Special Issue



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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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