Special Issue

Symmetry/Asymmetry in Two-Dimensional Materials: Synthesis and Applications

Message from the Guest Editor

Two-dimensional materials will soon be integrated into functional devices for an array of new applications. Symmetry considerations also play an important role in determining the band structure. Depending on the symmetry, a two-dimensional material can be either a semimetal, a semiconductor or a dielectric. This Special Issue in *Symmetry* will be focused on providing a broad overview of the state-of-the-art synthesis of two-dimensional materials and their broad industry integration from graphene to transition metal dichalocgendies to Mxenes. Magnetic and ferroelectric two-dimensional materials are of immense interest due to their implications for future spintronics devices. Another important area that could be part of this Special Issue is the robustness of the scalable processing methods of two-dimensional materials and ways to make them environmentally friendly.

Guest Editor

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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.

Editor-in-Chief

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