Special Issue

Two-Dimensional Materials: Synthesis, Characterization and Device Applications

Message from the Guest Editors

The fast development and surges of new two-dimensional materials provide exciting opportunities. Two-dimensional materials have shown extraordinary performance in energy storage, sensing, data processing, and flexible devices. This performance, and that of devices fabricated with 2D materials, depends on the synthesis process used, nanoscale characterization, and advanced fabrication techniques. This Special Issue on recent advances in 2D materials focuses on the synthesis, characterization, and device applications. It will be devoted to publishing original research articles or communications on two-dimensional materials with aspects of novel synthetic strategies and post-treatment, nanoscale imaging, in situ characterization, and device applications. The 2D materials of interest include, but are not limited to:

- Graphene and its derivatives (graphene oxide, reduced graphene oxide, graphene quantum dot);
- Two-dimensional nitrides, oxides, and carbides;
- Transition metal dichalcogenides;
- Xenes;
- Two-dimensional Au, Ag Nanosheets.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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