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Design, Characterization, and Application of 2D Materials

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Message from the Guest Editors

Two-dimensional layered materials have rapidly established themselves as intriguing building blocks for a vast number of applications, offering promising prospects for next generation nanoelectronic and optoelectronic devices. Graphene, a one-atom thick layer of carbon atoms arranged in a honey-comb lattice, is at the top position, yet other possibilities include layered dielectrics, transition metal dichalcogenides, 2D ferromagnets, and the blend of them in Van der Waals heterostructures.

The Special Issue on “Design, Characterization, and Application of 2D materials” is intended to cover a broad description in the field of two-dimensional materials, involving their growth and characterization as well as sample fabrication based on layered materials and their potential applications. Researchers working in the field of two-dimensional materials are welcome to contribute to this issue whose scope is intended to cover multiple aspects (from chemistry to physics) of these fascinating systems.

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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.

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