Special Issue

Research on Low-Dimensional Quantum Materials

Message from the Guest Editors

Low-dimensional quantum materials, such as two-dimensional (2D) graphene, one-dimensional (1D) nanowires, and zero-dimensional (0D) quantum dots, have attracted considerable attention in physics, chemistry, and materials science. Their distinctive electronic, optical, and magnetic properties stem from quantum confinement effects and reduced symmetry, making them promising candidates for advanced technologies like electronics, spintronics, and quantum computing. As research advances, these materials are expected to play a key role in developing smaller, faster, and more efficient devices across various applications.

In this Special Issue, "Research on Low-Dimensional Quantum Materials", we aim to summarize experimental and theoretical advancements in the field, discuss the remaining challenges, and provide roadmaps for future research.

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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.

Editor-in-Chief

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