Special Issue

Design and Synthesis of Functional Crystal Materials

Message from the Guest Editor

Functional crystal materials are crucial in contemporary science and technology across numerous high-tech fields, such as the conversion of various forms of energy, including light, electricity, magnetism, heat, and force. They serve as essential foundations for advancements in microelectronics, optics, lasers, remote sensing, communications, aerospace, and other cutting-edge technologies, positioning them at the forefront of new material science development. This Special Issue will focus on introducing various functional crystal structures and crystal synthesis and discussing their impact on related properties and applications. Research areas may include (but are not limited to) the following: (1) the exploration of novel functional crystals, such as piezoelectric crystals, semiconductor crystals, nonlinear optical crystals, and pyroelectric crystals; (2) the synthesis and preparation of functional crystals; and (3) the correlation between crystal structure and performance.

This Special Issue will collect the latest developments in crystal structure characterization, crystal synthesis, crystal properties, and applications.

Guest Editor

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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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