Special Issue

Magnetoelectric Materials

Message from the Guest Editors

Multiferroic materials, which have two or more ferroic orders, such as ferroelectricity, ferromagnetism, and ferroelasticity, have gained more interest in the world of novel multifunctional materials due to the interaction between spin and charge. The magnetoelectric (ME) effect is the coupling between polarization (P) and magnetization (M).

With the development of nanoscience, magnetoelectric materials based on metals, oxides, semiconductors and their combinations have attracted more research attention. Developing novel magnetoelectric materials has become the focus of research fields, including the development of materials, sensors, and biomedical applications. It is still necessary to be solved for practical applications are performance improvement, in-depth understanding of the physical and chemical properties.

This Special Issue will discuss the directions of magnetoelectric materials development focusing on design, synthesis, characterization, theoretical description, recent developments in single-phase, composite form and their applications.

Guest Editors

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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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