

Special Issue

Ferroelectric and Multiferroic Thin Films

Message from the Guest Editors

Ferroelectric and multiferroic thin films have been an active research area in the field of materials science and engineering. These materials exhibit unique properties such as spontaneous polarization, piezoelectricity, and magnetoelectric coupling, making them promising candidates for a wide range of applications.

Ferroelectric and multiferroic thin films find applications in various fields such as electronics, sensors, actuators, and memory devices. In the field of electronics, these materials are used in non-volatile memory devices, such as ferroelectric random-access memory (FeRAM). The piezoelectricity of ferroelectric thin films is utilized in microelectromechanical systems (MEMS) and sensors. Multiferroic thin films, which exhibit both ferroelectric and ferromagnetic properties, have the potential to revolutionize spintronics and magnetic memory devices. The magnetoelectric coupling in these materials allows for the control of magnetization by applying an electric field or vice versa, which is crucial for the development of low-power and high-density data storage devices.

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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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