

Special Issue

Research and Development of Ferroelectric Material

Message from the Guest Editor

Ferroelectrics are among the most used and studied materials in the scientific community and industry. These materials show myriad attractive properties, such as huge dielectric permittivity, nonlinear dielectric properties, piezoelectricity, and pyroelectricity; therefore, they are suitable for various applications, such as effective capacitors, sensors, actuators, memory devices, and solar cells. Currently, special attention is paid to controlling ferroelectric properties by structural modifications performed by special technologies, such as domain engineering, modifications of crystal growth and ceramic preparation techniques, manipulations at the nanoscale, and the improvement of composites and thin film preparation technologies. Miniaturized integrated electronics applications also require further development and a deeper understanding of the technology and functioning of ferroelectric materials at the nanoscale, as well as the investigation and optimization of the modified properties.

Guest Editor

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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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