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Advances in Ferroelectric Nanomaterials

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Message from the Guest Editors

The primary objective of this Special Issue is to compile cutting-edge research and developments in ferroelectric nanomaterials, emphasizing their synthesis, properties, and potential applications. We aim to evaluate recent results related to the structure and properties of these materials, as well as the relationships between these properties and their applications in various fields.

Contributions may cover, but are not limited to, the following topics: advanced methods for characterizing the structural and functional properties of ferroelectric nanomaterials; in situ characterization to observe ferroelectric properties in real-time; development of energy-efficient devices utilizing ferroelectric properties; development of ferroelectric nanomaterials for advanced memory devices, including non-volatile memories; integration of ferroelectric materials in nanoelectromechanical systems.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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