Special Issue

Preparation, Characterization and Application of Ferroelectric/Piezoelectric Nanomaterials

Message from the Guest Editor

Ferroelectric materials have functional applications, such as energy harvesting transducers, advanced sensors, actuators in fields of energy, information, and communication. Over the last decade, ferroelectric/piezoelectric nanomaterials have received extensive attention from scientific and engineering viewpoints. They exhibit different properties from those of bulk materials due to their small size and large surface-to-volume ratios and become promising candidates for nanometer scale electronic, optical, and mechanical devices. This Special Issue of *Nanomaterials* aims to cover the most recent advances in the synthesis procedures for the preparation of ferroelectric/piezoelectric nanomaterials with different compositions, morphologies, and structures in order to enhance their performance and breadth of applications.

Guest Editor

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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.

Editor-in-Chief

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