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Nanoscale Ferroic Materials—Ferroelectric, Piezoelectric, Magnetic, and Multiferroic Materials

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closed (31 July 2022)

Message from the Guest Editors

Ferroic materials, including ferroelectric, dielectric, piezoelectric, magnetic, and multiferroic materials, have broad applications in current modern society. Obviously, ferroic materials have shown their great advantages in terms of applications in modern society and are going to find more novel applications in the future. This Special Issue on "Nanoscale Ferroelectric, Piezoelectric, and Multiferroic Materials" aims at collecting the most recent advances on nanoscale ferroic materials and their novel applications in different fields of interest. For this reason, this Special Issue will include a large variety of materials and related applications, such as ferroic nanostructures and materials, including ferroelectric, dielectric, piezoelectric, magnetic, and multiferroic nanomaterials (oxide materials, two-dimensional materials, alloys), their applications in energy harvesting, sensing, catalysis, information storage, etc. Papers on a fundamental understanding of the novel properties demonstrated by nanoscale ferroic materials are also welcome.

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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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