Special Issue

Dielectric, Ferroelectric and Piezoelectric Properties of Nanomaterials

Message from the Guest Editor

We welcome all research works that focus on these properties in ferroelectric nanomaterials, including but not limited to the following:

- Those reporting the downscaling status quo in ferroelectric nanomaterials (how do their properties compare with the bulk ones?) and analyzing the impacting factors;
- Those that model/simulate the critical size for a scalable electrophysical property, or the property itself in a nanomaterial or a miniaturized device;
- Those that present a novel method or create a novel microstructure to address/mitigate downscaling issues, or to endow ferroelectric nanomaterials with excellent or tailor-made electrophysical properties;
- Those that design, characterize, or fabricate ferroelectric nanomaterials or prototype devices targeting the aforementioned properties or propertyrelated applications, etc.

Lastly, antiferro-electric nanomaterials and their related properties are also within the scope of this Special Issue, as they can transform into a ferroelectric phase under the application of an external electric field.

Guest Editor

Prof. Dr. Jun Ouyang

College of Arts and Sciences, Seton Hall University, South Orange, NJ, 07079, USA

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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 nanometerscale 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

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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