Special Issue

Nanoscale Ferroelectrics and Their Applications

Message from the Guest Editors

There is increased research on nanoscale ferroelectrics and this is currently receiving a lot of attention in the scientific community. This Special Issue seeks contributions from authors who are engaged in the fabrication, characterization and application of nanoscale ferroelectrics and structures on their base components. Contributions are sought in the following areas:

- Novel techniques for nanopatterning and domain engineering of ferroelectrics and related materials
- Nanoscale characterization of ferroelectrics, including scanning probe microscopy techniques
- Degradation phenomena in ferroelectrics at the nanoscale
- Local electrical and mechanical properties and size effects in ferroelectrics
- Ferroelectric thin films and their applications
- Nanoelectromechanical devices and systems based on ferroelectrics
- Applications of nanoscale ferroelectrics and systems on their base components

Keywords

- ferroelectrics
- piezoelectrics
- thin films
- local characterization
- scanning probe microscopy
- size effects

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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