



Research and Development of Ferroelectric Material

Guest Editor:

Dr. Jan Macutkevicius
Physics Faculty, Vilnius
University, 01513 Vilnius,
Lithuania

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Message from the Guest Editor

Ferroelectrics are among the most used and studied materials in the scientific community and industry. These materials show myriad attractive properties, such as huge dielectric permittivity, nonlinear dielectric properties, piezoelectricity, and pyroelectricity; therefore, they are suitable for various applications, such as effective capacitors, sensors, actuators, memory devices, and solar cells. Currently, special attention is paid to controlling ferroelectric properties by structural modifications performed by special technologies, such as domain engineering, modifications of crystal growth and ceramic preparation techniques, manipulations at the nanoscale, and the improvement of composites and thin film preparation technologies. Miniaturized integrated electronics applications also require further development and a deeper understanding of the technology and functioning of ferroelectric materials at the nanoscale, as well as the investigation and optimization of the modified properties.





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Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, Italy

Message from the Editor-in-Chief

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Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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