Special Issue

Ferromagnetic and Ferroelectric Materials: Synthesis, Applications, and Techniques

Message from the Guest Editor

Ferroelectric materials are a central topic of the last few decades in condensed matter physics and material science. These systems are an attractive platform for developing devices with enriched functionality at their interfaces with other semiconductors or with materials featured by different ferroic order. They possess a variety of functional properties that make them appealing for a range of applications in the field of nonvolatile memories, sensors, piezoelectric devices, photovoltaic applications, catalysis, and photocatalysis. The aim of the Special Issue on “Compensation and Screening of Ferroelectricity in Perovskite Oxides” is to provide information on the latest understanding of physics at ferroelectric surfaces, in connection to the theoretical models of the screening and compensation in polar oxide heterostructures. The second purpose is to explore the relationship between screening and relevant aspects of ferroelectric functionalities. Full papers, communications, and reviews are all welcome

Guest Editor

Dr. Dana Georgeta Popescu

Laboratory of Nanoscale Condensed Matter, Department of Surface and Interface Science, National Institute of Materials Physics, Atomistilor 405A, 077125 Magurele-Ilfov, Romania

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

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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