Special Issue

Recent Advances in Multiferroics and Magnetoelectric Materials

Message from the Guest Editor

ME coupling occurs in both single-phase materials and composites with different connectivities. The transition from the conceptual to the implementation phase is hampered by several issues: (i) most multiferroics are characterized by weak ME coupling well below room temperature, (ii) the coupling is nonlinear and difficult to control, and (iii) the available measurement methods are often poorly implemented and susceptible to noise. This Special Issue of Materials is devoted both to composites and single-phase materials, including lead-free materials. Our designated research goal is consistent with climate policy concerning, among others, energy transformation and environmental protection. Particular attention will be paid to synthesis methods and magnetoelectric coupling coefficient measurement methods that allow for the production of materials with reproducible structural and magnetoelectric properties. Authors are invited to contribute their original research articles,such as comparative study papers or review articles devoted to the above topic, especially those presenting new ideas in the field of single-phase multiferroics and magnetoelectric composites.

Guest Editor

Prof. Dr. Elżbieta Jartych

Department of Electronics and Information Technology, Lublin University of Technology, 38A Nadbystrzycka Str., PL-20-618 Lublin, Poland

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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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Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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