materials

an Open Access Journal by MDPI

IMPACT FACTOR 3.2

Indexed in: PubMed

CITESCORE 6.4

Magnetoelectric Materials and Their Applications

Guest Editor:

Prof. Dr. Yuri Fetisov
Research and Education Center "Magnetoelectric Materials and Devices", MIREA–Russian Technological University, 119454 Moscow, Russia

Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editor

In recent decades, tremendous progress has been made in the fabrication and investigation of magnetoelectric (ME) materials, whose magnetization is changed by an electric field, and electric polarization is changed by a magnetic field. Possibilities of using ME materials in high-sensitivity magnetic field sensors, low-frequency and microwave signals processing devices, data storage elements, and energy harvesting devices were demonstrated.

This Special Issue calls for papers that report on recent advances in the synthesis, research, theoretical description, and application of both single-phase and composite ME materials. In addition to traditional areas of ME materials research, nanocomposite ME materials, lead-free ME materials, flexible ME structures based on piezoelectric and magnetic polymers, strongly anisotropic ME materials, ME structures with semiconductor and active optical layers, nonlinear ME effects, ME devices for the high-frequency range, ME materials-based artificial synaptic devices, and problems in ME devices' miniaturization are of interest.

materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
𝕏@Materials_Mdpi