



an Open Access Journal by MDPI

Advances in Magnetolectric Composites

Guest Editors:

Dr. Miguel Alguero

Instituto de Ciencia de Materiales de Madrid (ICMM), CSIC, Cantoblanco, 28049 Madrid, Spain

Prof. Liliana Mitoseriu

Faculty of Physics, University Alexandru Ioan Cuza from Iasi, Iasi, Romania

Dr. Harvey Amorin

Instituto de Ciencia de Materiales de Madrid (ICMM), CSIC, Madrid, Spain

Deadline for manuscript submissions:

closed (30 June 2020)

Message from the Guest Editors

Dear Colleague,

Magnetolectrics are key enabling materials for a range of proposed related technologies that exploit their ability to develop an electric polarization in response to a magnetic field, and conversely of a magnetization in response to an electric one. Examples are electrically-tunable magnetic devices for microwave communications, high-sensitivity magnetic-field sensors with room-temperature operation, and energy harvesters, to name a few. The most promising materials and those closest to enabling the technologies are two-phase materials combining ferroelectrics and ferromagnets.

This Special Issue aims at putting together recent advancements in processing, understanding, applications, and novel materials, and finally aims to outline some future technological and scientific challenges in the field of magnetolectric composites. Contributions on all types of composites, both bulk and film, either experimental or theoretical studies as well as potential technical implementations are welcomed.





an Open Access Journal by MDPI

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

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.

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](https://twitter.com/Materials_Mdpi)