Special Issue

Advances in Magnetoelectric Composites

Message from the Guest Editors

Dear Colleague, Magnetoelectrics 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 magnetoelectric composites. Contributions on all types of composites, both bulk and film, either experimental or theoretical studies as well as potential technical implementations are welcomed.

Guest Editors

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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.

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