

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

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About the Journal

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.

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