Special Issue

Recent Advances in Organic–Inorganic Hybrid Dielectrics Materials

Message from the Guest Editor

One of the challenges of today's science and engineering materials design is to develop functional multiferroics nanocomposites based on dielectric and magnetic porous matrices that exhibit interesting magnetic and electric properties, which have high thermal stability and remarkable optoelectronics properties, and those in which a precise control of the properties is achieved by changing the shape and the pore size of the matrix. However, as can be clearly seen, the stability of a nanostructure depends strongly on the size and its outer shape. The dynamic impedance spectroscopy method, polarization–electric field, and DSC measurements allow for the characterization of the occurrence of phase transitions and the estimation of the main thermodynamic parameters of those transitions in obtained multiferroics, the determination of ferroelectric properties, the description of relaxation mechanisms, and the investigation of the influence of pore dimensions and particle sizes on physical properties of studied composites. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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