

Special Issue

Dielectric Polymer Materials: Fabrication, Characterization and Application

Message from the Guest Editor

Dielectric materials' electrical performance is related to their polarization, dielectric permittivity and loss, relaxation phenomena, interfacial effects, conductance mechanisms, and dielectric breakdown strength. The dielectric response of polymer dielectrics can be tuned by controlling the fabrication method and the ingredients. In this Special Issue on “Dielectric Polymer Materials: Fabrication, Characterization, and Application”, we welcome original research and reviews on experimental or theoretical/computational studies of all kinds on polymer-based dielectric materials. The design and fabrication of novel polymer-based dielectric materials, polymer matrix micro- and nanocomposites and hybrids, biological systems, electrical engineering devices, insulation systems, stimuli-responsive materials, smart materials, the structure–properties relationship, and all kinds of current and forthcoming applications comprise a short—and definitely not exhaustive—list of the possible subjects for this Special Issue.

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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