Special Issue

Nanofabrication, Characterization and Application of Magnetic Functional Materials

Message from the Guest Editor

This Special Issue will look at advances in the area of synthesis, fabrication, characterization, and the application of materials with magnetic field-controllable properties. Their principal feature is the ability to vary their parameters under the influence of external magnetic fields. Magnetic elastomers have a varied set of descriptive names, including 'magnetorheological', 'magnetoactive', 'magnetocontrollable materials', 'magnetic polymers', 'magnetic gels', etc. Such materials are known to demonstrate more than 10 various 'smart' effects when influenced by magnetic fields. Papers contributing to production methods, research methods, new characteristics depending on the magnetic field, obtaining high parameters of known properties, and various applications are welcome. The mathematical description of the observed effects remains an important aspect of the understanding of this type of material.

Guest Editor

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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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