Special Issue

Nanosized and Nanostructured Magnetic Materials: Experimental, Theoretical, and Computational Investigations

Message from the Guest Editors

In this Special Issue, we aim to emphasize the most recent and most significant advances in the topics related to nanosized and nanostructured magnetic materials, e.g., nanoparticles, nanowires, nanotubes, nanostrips, various nanostructured magnetic materials, including nanocrystalline ones, having different shapes and sizes, and targeted for multiple applications. The focus on experimental methods and techniques, e.g., preparation (rapid solidification processes, different deposition procedures, atomization, milling, etc.), characterization (magnetic, structural, etc.), post-production enhancement of properties (annealing, mechanical processing, applied stresses, etc.), as well as on their application possibilities, will be complemented by novel theoretical and computational approaches in the investigation of these materials, such as modeling of their magnetic behavior and properties by means of analytical and numerical methods, simulation of the magnetic hysteresis, and other phenomena, including application-related ones.

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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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