Special Issue

Advances in Magnetic Materials and Magneto-Elastic Sensors

Message from the Guest Editors

This Special Issue is aimed at providing researchers with a survey of the recent progress in magnetic materials and their applications, with a special emphasis on magnetoelasticity phenomenon-based sensors. The articles presented within will cover a wide range of related topics, from magnetic materials preparation and characterization, to their various practical applications in sensors for physical parameters, chemical substances, biological molecules, gases, and so on. For these sensing purposes, magnetic materials can be used in their as-prepared state or after a specific functionalization of the magnetic material. All these aspects will be covered in this Special Issue. This broad perspective deals not only with classic but also the most modern applications, such as in biomedicine, a research field in which magnetic nanomaterials for hyperthermia and cancer treatment purposes or magnetoelectric core/shell type nanoparticles for drug delivery and release are nowadays a hot topic. This Special Issue will provide an overview of what is currently being explored in magnetic materials for sensing purposes.

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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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