Special Issue

New Developments in Ferromagnetic Materials

Message from the Guest Editors

Increasing economic and ecological demands, in particular energetic requirements, are compelling the development of novel multifunctional materials for applications in different fields of life and technology. In this context, new ferromagnetic materials are playing a crucial role in strategic industrial sectors, such as electronics, telecommunications, computation, health, etc. The goal of this Special Issue is to present the recent families of ferromagnetic materials:

- Soft/hard magnetic materials;
- materials exhibiting magnetotransport properties;
- low-dimensionality materials: Nanoparticles, nanodots, nanowires, nanotubes, thin films, multilayers;
- superlattices and materials with topological magnetic phases.

It will be reviewed the conventional and modern magnetic properties, effects, responses, behaviors... that present these materials like hysteresis parameters (coercivity, remanence, energy losses, etc.), magnetoelastic parameters, magnetocaloric effect, magnetic memory shape, magnetoimpedance response, giant magnetoresistance, tunnel magnetic jumption, spin valves, magnetic vortex, skyrmions, *etc.*

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About the Journal

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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