

Special Issue

Magnetic Metal Materials

Message from the Guest Editor

Magnetic materials influence our life in a distinct way. Increasing economic and environmental requirements stimulate the development of many hard and soft magnetic materials, and materials with a ferromagnetic–paramagnetic phase transition temperature which is close to room temperature. Among them, magnetic metal materials play a very important role. This Special Issue on “Magnetic Metal Materials” is devoted to novel theoretical, experimental, and application studies of all magnetic materials containing metals (transition metals and/or rare earth elements). Conventional and modern magnetic properties such as hysteresis loop parameters, energy losses, magnetostriction, magnetoelastic coupling, magnetic anisotropy, superparamagnetic behavior, magnetic entropy change, magnetic shape memory effect, magnetoimpedance response, giant magnetoresistance, magnetic vortex, and the combination of mechanical and magnetic properties will be reviewed. Keywords

- conventional and modern soft and hard magnetic materials
- superparamagnetic behavior of nanograins
- magnetic entropy change
- magnetic shape memory effect

Guest Editor

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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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