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Magnetic Materials and Applications

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The fabrication of magnetic materials is a long-standing topic, and magnetic materials are employed in a variety of applications including magnetic recording, magnetic magnetic levitation. magnetic sensor, cooling, spintronics... This Special Issue of Materials is focusing on material preparation, new material structuring approaches, new shapes and designs of materials and new routes to optimize the material parameters in view of the application demands.

The topics of interest include, but are not limited to:

- Fabrication of ferromagnetic materials;
- Search of rare-earth free magnetic materials;
- Generate high magnetic fields including superconducting trapped-field magnets;
- Processing technologies: Deposition of films, structuring, ink jet-printing, 3D-printing, new shapes of materials (nanowires, porous materials, composites);
- Investigation of microstructure;
- Magnetic imaging (MRI, magnetic force microscopy, magneto-optics);
- Tuning the magnetic properties to higher efficiency;
- Materials issues for spintronics;
- Optimizing the properties magnetic materials for given applications;
- New emerging applications of magnetic materials





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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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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