

Special Issue

Magnetic Materials and Applications

Message from the Guest Editors

The fabrication of magnetic materials is a long-standing topic, and magnetic materials are employed in a variety of applications including magnetic recording, magnetic sensor, magnetic levitation, magnetic 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

Guest Editors

Prof. Dr. Michael R. Koblishchka

Superconducting Materials Laboratory, Department of Materials Science and Engineering, Shibaura Institute of Technology 307-8565 Toyosu, Koto-ku, Tokyo, Japan

Prof. Dr. Anjela Koblishchka-Veneva

Department of Materials Science and Engineering, Shibaura Institute of Technology, Toyosu, Koto-ku, Tokyo 135-8548, Japan

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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