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Advances and Frontiers in Magnetostrictive Materials

Guest Editor:

Prof. Dr. Mikhail Shamonin

East Bavarian Centre for
Intelligent Materials (EBACIM),
Ostbayerische Technische
Hochschule (OTH) Regensburg,
Prüfeninger Strasse 58, 93049
Regensburg, Germany

Deadline for manuscript
submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

You are cordially invited to submit contributions to this Special Issue, which aims to publish highly rated manuscripts presenting recent developments and applications of a broad range of magnetostrictive materials including material development, design and fabrication of sensor systems, theoretical considerations, numerical simulations and experimental results. Papers exploring the research frontiers of magnetostrictive materials and their applications are explicitly welcome.

Topics include but are not limited to the keywords listed as follows:

- Giant magnetostriction
- Magnetomechanical effects
- Magnetostrictive materials in sensor technology
- Magnetostrictive materials in actuator technologies
- Magnetostrictive materials in energy harvesting
- Magnetostrictive polymer composites
- Magnetostrictive materials in magnetoelectricity
- Non-Joulian magnetostriction
- Self-sensing with magnetostrictive materials
- Straintronics
- Technology of magnetostrictive materials



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Special Issue



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Editor-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

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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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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