







an Open Access Journal by MDPI

Magnetic Metal Materials

Guest Editor:

Prof. Dr. Jan Świerczek

Częstochowa University of Technology, Czestochowa, Poland

Deadline for manuscript submissions:

closed (31 August 2021)

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 ferromagneticparamagnetic 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













an Open Access Journal by MDPI

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, OC H3A 0C7, Canada

Message from the Editor-in-Chief

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

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

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