



an Open Access Journal by MDPI

Advances in Magnetic Materials: Fabrication, Properties, and Applications

Guest Editor:

Prof. Dr. Subhadra Gupta

Dept. of Metallurgical and
Materials Engineering, The
University of Alabama,
Tuscaloosa, AL, USA

Deadline for manuscript
submissions:

closed (20 November 2023)

Message from the Guest Editor

Dear Colleagues,

Magnetic materials have been intensively studied for several decades, particularly as applied to data storage. Since the advent of spintronics late last century, the applications have been extended to non-volatile memory. This Special Issue will address recent applications of magnetic materials to data storage and advanced memory. It will comprise select contributed papers on the fabrication, properties and applications of magnetic materials.

Potential topics include, but are not limited to: perpendicular magnetic anisotropy thin films; fabrication of magnetic tunnel junctions; characterization of the magnetic and structural properties of magnetic tunnel junctions; bit-patterned media for hard disk drives; block copolymer templating of high-coercivity perpendicular thin films; rare-earth-free high-magnetic-strength thin films.

Prof. Dr. Subhadra Gupta
Guest Editor



mdpi.com/si/169891

Special Issue



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, 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.

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](https://twitter.com/Materials_Mdpi)