







an Open Access Journal by MDPI

Research on Hard Magnetic Materials: Synthesis, Properties, and Applications

Guest Editors:

Dr. Petra Jenuš

Jožef Stefan Institute, Ljubljana, Slovenia

Dr. César De Julián Fernández

Institute of Materials for Electronics and Magnetism (IMEM), National Research Council (CNR), Parma, Italy

Deadline for manuscript submissions:

closed (20 April 2024)

Message from the Guest Editors

Dear Colleagues,

The Green Transition is the most important challenge of 21st-century society. Magnetic materials play a vital role in this modern transformation.

This Special Issue will provide a comprehensive overview and the most recent advances in topics related to the synthesis, properties and applications of magnetic materials. We invite contributions that identify novel synthesis approaches, eco-friendly and/or reduction in energy consumption, and/or improved properties of hard magnetic materials precisely tailored to be used in applications for the Green Transition.

The included topics (but not limited to):

- Permanent magnets for electric motors (electric traction, vehicles and wind generation);
- Magnetic nanomaterials for biomedical applications, green catalysis and water purification;
- Designed materials and applications;
- Magnetocaloric materials for eco-friendly cooling technologies;
- Materials for IoT and spintronics for energy efficiency improvement;
- Recycling techniques of magnetic materials.

It is our pleasure to invite you to submit full papers, communications, or reviews.

Specialsue











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 iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. 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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us