Special Issue

State-of-the-Art Magnetic Materials

Message from the Guest Editor

It is well established that we can harness magnetism in various ways for various properties, depending on the properties and content of the ways we assemble the magnetic atoms. Whether the magnetic atoms are embedded into a crystal matrix or an amorphous one, whether the grain size is in the micro- or nanoscale, and whether the dimensionality of the matrix is 3D or less than that will determine the strength of the magnetic interaction, its anisotropy properties, and the ease by which we can manipulate them by inducing external energy. This Special Issue aims to collect quality scientific articles concerning contemporary state-of-the-art magnetic materials, novel ways to synthesize them, and advanced modeling to predict their properties. The following are especially considered:

- Multiferroics for spintronic;
- Soft magnetic materials;
- Additive manufacturing of magnetic materials with special topologies;
- Nanoscale memory technologies;
- 2D magnetic materials;
- Magnetic shielding;
- Modeling of both magnetic materials and topologies;
- Molecular magnetism.

Guest Editor

Dr. El'ad N. Caspi
Physics Department, Nuclear Research Centre - Negev, Beer-Sheva 84190, Israel

Deadline for manuscript submissions

closed (20 June 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/139769

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

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.

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

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 and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)