

Special Issue

Novel Approaches to Ferromagnetic and Magnetic Materials

Message from the Guest Editors

In the age of the Internet of Things (IoT) and Artificial Intelligence (AI), computing paradigms are changing to encourage smart living and enhance quality of life. Non-volatile data storage has been replaced, thanks to magnetic materials, by the currently used Von Neumann computing architecture. Magnetic materials will be a prominent factor in the advancement of future technologies, such as non-volatile memory, quantum and neuromorphic computing, reconfigurable computing, and computation-in-memory. Novel magnetic materials, methods, and devices are therefore the focus of this proposed Special Issue entitled “Novel Approaches to Ferromagnetic and Magnetic Materials.” We welcome papers on the attributes of novel materials, such as their antiferromagnetic, ferromagnetic, or ferrimagnetic properties. Further, this Special Issue covers a wide range of topics, such as skyrmions, spin devices, heavy metals, topological insulators, antiferromagnetic materials, ferrimagnetic materials, ferromagnetic materials, the spin Hall effect, domain walls, 2D magnetic materials, and spintronic devices.

Guest Editors

Dr. Shivam Verma

Prof. Dr. Brajesh Kumar Kaushik

Dr. Sonal Shreya

Deadline for manuscript submissions

closed (20 October 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/163380

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

[mdpi.com/journal/
materials](https://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](https://mdpi.com/journal/materials)



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)