



materials



an Open Access Journal by MDPI

Novel Approaches to Ferromagnetic and Magnetic Materials

Guest Editors:

Dr. Shivam Verma

Office No. F-8, Department of
Electronics Engineering, IIT(BHU)
Varanasi, BHU Campus, Varanasi
221005, Uttar Pradesh, India

Prof. Dr. Brajesh Kumar Kaushik

Department of Electronics and
Communication Engineering,
Indian Institute of Technology
Roorkee, Roorkee 247667,
Uttarakhand, India

Dr. Sonal Shreya

Department of Electrical and
Computer Engineering—
Electronics and Photonics
Section Room No. 205, Building
No. 5125 Finlandsgade 22, Aarhus
University 8200 Aarhus, Denmark

Deadline for manuscript
submissions:

closed (20 October 2023)

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.



mdpi.com/si/163380

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)