



*materials*



an Open Access Journal by MDPI

## Nanofabrication, Characterization and Application of Magnetic Functional Materials

Guest Editor:

**Prof. Dr. Gennadij  
Vladimirovich Stepanov**

State Scientific Research Institute  
of Chemistry and Technology of  
Organoelement Compounds  
(GNIChTEOS), 111123 Moscow,  
Russia

Deadline for manuscript  
submissions:

**closed (30 October 2021)**

### Message from the Guest Editor

This Special Issue will look at advances in the area of synthesis, fabrication, characterization, and the application of materials with magnetic field-controllable properties. Their principal feature is the ability to vary their parameters under the influence of external magnetic fields. Magnetic elastomers have a varied set of descriptive names, including ‘magnetorheological’, ‘magnetoactive’, ‘magnetocontrollable materials’, ‘magnetic polymers’, ‘magnetic gels’, etc. Such materials are known to demonstrate more than 10 various ‘smart’ effects when influenced by magnetic fields. Papers contributing to production methods, research methods, new characteristics depending on the magnetic field, obtaining high parameters of known properties, and various applications are welcome. The mathematical description of the observed effects remains an important aspect of the understanding of this type of material.



[mdpi.com/si/62085](https://mdpi.com/si/62085)

**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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)