



an Open Access Journal by MDPI

Superconductors: Materials and Technology

Guest Editor:

Dr. Daniel Gajda

Division of Low Temperature and Superconductivity, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, 50-422 Wrocław, Poland

Deadline for manuscript submissions:
closed (20 July 2023)

Message from the Guest Editor

Dear Colleagues,

Superconducting wires, tapes, cables and bulks have a large number of applications. The application depends on their critical parameters (e.g. critical current density, irreversibility magnetic field and critical temperature). The critical parameters depend on e.g. doping, heat treatment, structure of the superconducting material, structural defects and the technology used for the production. Currently, MgB₂ material, iron-based superconductors and high-temperature superconductors have received the considerable attention owing to their high critical current density and high critical magnetic fields.

We invite researchers to contribute to the Special Issue which is intended to serve as a unique multidisciplinary forum covering broad aspects of the science, technology and application of superconducting materials.

The potential topics include, but are not limited to:

- MgB₂ wires and tape - powder in a tube (PIT)
- MgB₂ wires – internal Mg infiltration (IMD)
- iron-based superconductors wires
- high-temperature superconductors tape
- synthesis of superconducting materials



mdpi.com/si/103038

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)