

## Special Issue

# Superconductors: Materials and Technology

### Message from the Guest Editor

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, MgB<sub>2</sub> 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:

- MgB<sub>2</sub> wires and tape - powder in a tube (PIT)
- MgB<sub>2</sub> wires – internal Mg infiltration (IMD)
- iron-based superconductors wires
- high-temperature superconductors tape
- synthesis of superconducting materials

### Guest Editor

Dr. Daniel Gajda

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### Deadline for manuscript submissions

closed (20 July 2023)



## Materials

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### 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.

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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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