

Special Issue

Thermophysical and Mechanical Properties of Materials

Message from the Guest Editor

The description of the behavior of materials and products under nonstationary thermal boundary conditions in a broader temperature interval requires knowledge of the dilatometric characteristics of the materials, the dependence of the thermal conductivity or diffusivity on the temperature, and the temperature dependencies of heat capacity. The knowledge of thermophysical properties provides an opportunity for optimization of the thermal processing of materials and the thermal strain of products. Additionally, detailed knowledge of a given material and its properties provides the opportunity to determine its specific practical applications. Many experimental methods exist in the field of the measurement of thermophysical and mechanical properties: differential thermal analysis, differential scanning calorimetry, thermogravimetry, thermodilatometry, calorimetry, steady-state methods, and transient methods. It is my pleasure to invite you to submit a manuscript to this Special Issue of *Materials*. Full papers, short communications, and reviews are all welcome.

Guest Editor

Dr. Anton Trník

Department of Physics, Faculty of Natural Sciences and Informatics,
Constantine the Philosopher University in Nitra, Nitra, Slovakia

Deadline for manuscript submissions

closed (20 March 2025)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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

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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

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