



materials



an Open Access Journal by MDPI

Applied Mathematics and Computer Methods in Materials, Mechanics and Engineering

Guest Editors:

Prof. Dr. Tomasz Strek

Institute of Applied Mechanics,
Poznan University of Technology,
60-965 Poznan, Poland

Dr. Hubert Jopek

Institute of Applied Mechanics,
Poznan University of Technology,
Poznan, Poland

Prof. Dr. Zoran Ren

Mechanical Engineering,
University of Maribor, 2000
Maribor, Slovenia

Deadline for manuscript
submissions:

closed (30 June 2020)

Message from the Guest Editors

This Special Issue of *Materials* is devoted to analytical and computational methods in material and mechanical engineering. Among others, the following topics are the main fields of interest of this Issue: linear and non-linear behavior elasticity and plasticity models; materials with anomalous characteristics; metamaterials; auxetic cellular materials; porous materials; functionally graded materials, fatigue of materials; the topological optimization of structures; heat transfer in materials and structures; as well as other topics related to computational methods in materials, mechanics, and engineering.

We invite you to submit research articles on the latest research work in these areas, with an emphasis on applications in all areas of materials and mechanics engineering.



mdpi.com/si/24995

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)