

# Special Issue

## Behavior of Metallic and Composite Structures (Third Volume)

### Message from the Guest Editors

The aim of this SI is to understand the basic principles of damage growth and fracture processes in advanced metallic and composite structures including also structural joints. Nowadays, it is widely recognized that important macroscopic properties, like the macroscopic stiffness and strength, are governed by processes that occur at one to several scales below the level of observation. A thorough understanding of how these processes influence the reduction of stiffness and strength forms the key to the analysis of existing and the design of improved innovative structural elements.

The study of how these various length scales: nano-, micro-, and meso- can be bridged or taken into account simultaneously in multiscale models is particularly attractive for composite materials and structural elements, since they have a well-defined structure at the above-specified levels.

---

### Guest Editors

Prof. Dr. Tomasz Sadowski

Department of Solid Mechanics, Faculty of Civil Engineering and Architecture, Lublin University of Technology, Nadbystrzycka 40 Str., 20-618 Lublin, Poland

Prof. Dr. Holm Altenbach

Chair of Engineering Mechanics, Institute of Mechanics, Faculty of Mechanical Engineering, Otto-von-Guericke-Universität Magdeburg, Universitätsplatz 2, 39106 Magdeburg, Germany

---

### Deadline for manuscript submissions

closed (20 July 2023)



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2

CiteScore 6.4

Indexed in PubMed



[mdpi.com/si/82012](http://mdpi.com/si/82012)

*Materials*

Editorial Office

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34

[materials@mdpi.com](mailto:materials@mdpi.com)

[mdpi.com/journal/](http://mdpi.com/journal/materials)

[materials](http://mdpi.com/journal/materials)





# Materials

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/journal/  
materials](http://mdpi.com/journal/materials)

## 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

---

### 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 and Metallurgical Engineering) /  
CiteScore - Q1 (Condensed Matter Physics)

