







an Open Access Journal by MDPI

# Fatigue and Fracture of Metals and Alloys: Numerical and Experimental Study (2nd Volume)

Guest Editors:

#### Dr. Jaroslaw Gałkiewicz

Faculty of Mechatronics and Mechanical Engineering, Kielce University of Technology, Aleja Tysiaclecia Panstwa Polskiego 7, 25-314 Kielce. Poland

## Prof. Dr. Lucjan Śnieżek

Faculty of Mechanical Engineering, Military University and Technology, 2 Kaliskiego Street, 00-908 Warsaw, Poland

Deadline for manuscript submissions:

closed (20 November 2023)

# **Message from the Guest Editors**

The success of the first part of the Special Issue: "Numerical-experimental studies of fatigue and cracking of metals and alloys" proves that the issues of fatigue and fracture mechanics are still an open matter and require further research. This fact encouraged us to create a second Special Issue under the same title that will further develop the problem of the behaviour of structural elements under the influence of loads that lead to their destruction.

Fatigue and fracture can be analysed from different points of view. There is room here to study the structure of the material, influence of the environment, shape of the structural element, or type of load. Research can be conducted in the laboratory on real elements, but many analyses require a numerical approach that is often very advanced, thus requiring the creation of new tools.

We invite everyone who works in the described area to present their latest findings that lead to a better understanding of the fracture and fatigue processes.













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 iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

#### **Contact Us**