



materials



an Open Access Journal by MDPI

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

Guest Editors:

Dr. Jaroslaw Galkiewicz

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.



mdpi.com/si/167419

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)