



metals



an Open Access Journal by MDPI

Characterization and Modelling of Fracture and Fatigue in Metallic Materials

Guest Editors:

Dr. Pavel Konopík

COMTES FHT a.s., Průmyslová
995, 334 41 Dobřany, Czech
Republic

Prof. Dr. Jan Džugan

COMTES FHT a.s., Průmyslová
995, 334 41 Dobřany, Czech
Republic

Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

In order to ensure the prevention of sudden and catastrophic failures in industrial and civil metallic structures (such as pipes, vessels, machinery, engines, rotating components, automobiles, trains, turbine blades, ship hulls and bridges), numerous researchers have dedicated their studies to understanding the phenomena of fracture and fatigue for more than a century. During this time, the field of the fracture and failure of metallic materials has progressed significantly owing to the development of new theories, and advances in computational methods and experimental techniques, and corrective, diagnostic and preventive tools have matured. However, with the development of new materials, technologies and manufacturing processes, revolutionary advancements in the fracture and fatigue failure of metallic materials are required.

This Special Issue aims to collect a wide range of original contributions on various aspects of fatigue and fracture for metallic materials.



mdpi.com/si/80672

Special Issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science
and Engineering, College of
Engineering & Applied Science,
University of Wisconsin-
Milwaukee, 3200 N. Cramer
Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation
Center of Materials Genome
Engineering, State Key
Laboratory for Advanced Metals
and Materials, University of
Science and Technology Beijing,
30 Xueyuan Road, Beijing 100083,
China

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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)**, **Inspec**, **CAPLUS** / **SciFinder**, and **other databases**.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)