



Fatigue and Wear for Steels

Guest Editor:

Prof. Dr. Sabine Weiß

Lehrstuhl Metallkunde und
Werkstofftechnik, Konrad-
Wachsmann-Allee 17, 03046
Cottbus, Germany

Deadline for manuscript
submissions:

closed (30 September 2018)

Message from the Guest Editor

Dear Colleagues,

Steel is well known for its diversity. Depending on the alloying elements tensile strengths between 300 MPa and more than 1000 MPa can be reached. Steels can be very brittle or extremely ductile, some of them are corrosion-, fatigue- or wear resistant, others not. This broad range of properties and applications of steels, combined with comparably low productions costs, qualify them to be, perhaps, the most important industrial alloys used by man.

In this Special Issue, we would like to provide a wide set of articles on various aspects of fatigue and/or wear resistance of steels, possibly with respect to the similarities between these two natures of load. Experimental results, as well as numerical and analytical models, can describe the complexity of microstructure characteristics and mechanical phenomena interacting during load and influencing fatigue or tribological properties of steels.





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 & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
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)