

Special Issue

Cavitation Erosion, Abrasive and Sliding Wear Behaviour of Metal-Based Structures

Message from the Guest Editor

This Special Issue is focused on the studies related to cavitation erosion, abrasive or sliding resistance, and wear mechanisms of metal-based structures: metal alloys, sinters, hardfacings, thermally sprayed deposits, thin films, composites, and additive manufactured metal structures, and many more. Papers focused on wear improvement via microstructural properties modification, surface layer treatment, and the deposition of wear-resistant coatings onto a metal-based substrate are encouraged. The scientific papers contained in this Special Issue will provide new knowledge in the fields of materials science and mechanical engineering. The content of this Special Issue is addressed to a broad group of scientists and engineers systematically working in the field of wear prevention of machine parts and components manufactured with metallic materials. This Special Issue is open for submissions, and welcomes original research contributions and review articles highlighting recent advances and future directions in the fields of cavitation erosion, and abrasive and sliding wear behavior of metal-based structures.

Guest Editor

Dr. Mirosław Szala

Department of Materials Engineering, Faculty of Mechanical Engineering, Lublin University of Technology, 20-618 Lublin, Poland

Deadline for manuscript submissions

closed (31 December 2021)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/46670

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)



About the Journal

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.

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).