



## **Cavitation Erosion, Abrasive and Sliding Wear Behaviour 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)**

### **Message from the Guest Editor**

Dear Colleagues,

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.





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](http://www.mdpi.com)

[mdpi.com/journal/metals](http://mdpi.com/journal/metals)  
[metals@mdpi.com](mailto:metals@mdpi.com)  
[X@Metals\\_MDPI](https://twitter.com/X@Metals_MDPI)