

## Special Issue

# High-Performance Applications of Metals and Alloys: Material Properties, Behaviour Modeling, Optimal Design and Advanced Processes

### Message from the Guest Editors

This Special Issue is focused on the recent evolution of metals and alloys with the scope of presenting the state of the art of solutions, where metallic materials have become established as a successful design solution. The Special Issue also intends to outline the fundamental development trends in the field of metallic materials. Synthesis, advanced experimental characterization, material modelling, and engineering applications are between the proposed Special Issue's prevalent aspects. All these topics will be covered in this collection of contributions referring to a large assortment of metals and metallic alloys. The processes covered include traditional techniques and the newest processes. Contributions will be considered noteworthy if they represent a real element of novelty in the world of metallic materials as well as in the advanced characterization and use of metals for effective design solutions. It is highly recommended to expect papers related to applying new technologies with respect to mechanical performance and materials behaviour in terms of modelling various phenomena and many other factors that constitute materials reliability in engineering applications.

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### Guest Editors

Dr. Cristiano Fragassa

Dr. Grzegorz Lesiuk

Dr. Jeremy Epp

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### Deadline for manuscript submissions

closed (30 June 2023)



## Metals

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CiteScore 5.3



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## About the Journal

### Message from the Editor-in-Chief

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.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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### 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 18.7 days after  
submission; acceptance to publication is undertaken in 2.7  
days (median values for papers published in this journal in  
the second half of 2025).