

## Special Issue

# Titanium Alloys: Processing and Properties

### Message from the Guest Editor

Titanium alloys offer distinct advantages over competing metallic systems, particularly where high-performance engineering applications demand a contribution from low density and corrosion resistance. From the mid-twentieth century onwards, a combination of traditional processing techniques and novel, alloy-specific routes was adopted to optimise the microstructural evolution in these alloys in order to control static strength, fatigue behaviour, and creep resistance. Due to the allotropic nature of the alpha/beta constituent phases, the role of microtexture inherently plays a fundamental role in the final mechanical properties. It is hoped that the papers to be commissioned under this current special edition of the *Metals* journal will address a wide range of issues relating to alloy processing, microstructure, and the control of mechanical properties in this important class of material.

---

### Guest Editor

Prof. Dr. Martin Bache

Institute of Structural Materials, Swansea University, Swansea, SA1 8EN, UK

---

### Deadline for manuscript submissions

closed (31 March 2020)



## Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/20354](https://mdpi.com/si/20354)

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

---

### Editor-in-Chief

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 18.7 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).