# **Special Issue**

# **Tungsten and Tungsten Alloys**

## Message from the Guest Editor

Dear colleagues, Tungsten, one of the most remarkable refractory materials, has attracted the attention of scientists and engineers for the last two centuries. The technological boom we are currently witnessing has significantly advanced our knowledge and understanding of this extraordinary metal.

One of the most prominent examples of these developments comes from the area of the controlled fusion, the energy source of the stars—one of the most challenging environments imaginable so far. Here, tungsten has found its place as the material protecting the interior of the power station from the hot fusion plasma. New advanced technology, nano-engineering, and sophisticated alloying have helped to turn the disadvantageous properties of tungsten back and to attain the qualities of this material which it had never possessed before. In this Special Issue devoted to tungsten and tungsten alloys, we will see the results of these challenging, but remarkable and fascinating, transformations of tungsten.

#### **Guest Editor**

Prof. Dr. Andrey M. Litnovsky

- 1. Senior researcher at the Forschungszentrum Jülich GmbH, Wilhelm-Johnen-Str. D-52425 Jülich, Germany
- 2. Teaching Professor at the National Research Nuclear University MEPhl, Moscow, Russian Federation, Kashirskoe sh., 31, 115409 Moscow, Russia

### Deadline for manuscript submissions

10 January 2026



## **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/58618

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

mdpi.com/journal/ metals





## **Metals**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



## **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 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).

