# Special Issue

# Microstructure and Mechanical Properties of Metallic Alloys Produced by Additive Manufacturing

# Message from the Guest Editor

Additive manufacturing (AM) of metals is revolutionizing the way of conceiving parts and structures. It enables a high degree of design freedom, allowing the production of objects with optimized shapes for specific applications. Several processes have been developed in the last few decades, belonging the group of Additive Layer Manufacturing (e.g., selective laser melting, electron beam melting) and to that of Direct Metal Deposition. From the material perspective, the peculiar solidification conditions induced by AM processes allow to generate specific microstructures and properties that still need to be investigated deeply. In addition, large opportunities are available for the design of new dedicated alloys showing an improved ability to be processed, as well as higher performances.

## **Guest Editor**

Prof. Dr. Maurizio Vedani

Department of Mechanical Engineering, Politecnico di Milano, Via Giuseppe La Masa 1, 20156 Milano, Italy

#### Deadline for manuscript submissions

closed (30 June 2018)



# Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/9925

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).

