# Special Issue

# Process-Structure-Mechanical Properties of Metal Additive Manufacturing

## Message from the Guest Editors

Metal additive manufacturing (AM) has been used in many industries-aerospace, automotive, consumer products, industrial products, medical devices, and architecture. Lattice structure design, powder composition, processing parameter, and post-treatment influence the mechanical properties and accuracy of printed objects. Hybrid manufacturing is a combination method to improve accuracy and increase flexible manufacturing. Functionally graded material also opens a new application field that can be more focused on the effects of process, structure, and mechanical property. This Special Issue of *Metals* focuses on metal additive manufacturing with respect to the topics mentioned below (please see the Keywords/Topics below). The papers presented in this Special Issue give an account of the 2020 scientific, technological, and industrial state of the art for metal additive manufacturing from different perspectives (see the Keywords/Topics below). Your contribution to this 2020 account is highly valuable and appreciated.

### **Guest Editors**

Prof. Dr. Cho-Pei Jiang

Additive Manufacturing Center for Mass Customized Production, National Taipei University of Technology, Taipei 10608, Taiwan

Prof. Dr. Timotius Pasang

Department of Mechanical and Manufacturing Engineering and Technology, Oregon Institute of Technology, Klamath Falls, OR 97601, USA

## Deadline for manuscript submissions

closed (31 March 2023)



## Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/100897

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).

