# Special Issue

# Metal Additive Manufacturing: Technologies, Materials, Fabrication and Mechanical Properties of 3D Printed Components

## Message from the Guest Editors

The present Special Issue of *Metals*, entitled "Metal Additive Manufacturing: Technologies, Materials, Fabrication and Mechanical Properties of 3D-Printed Components" focuses on additive manufacturing techniques for metallic materials, as well as the effect of process parameters of microstructural and mechanical properties of 3D-printed parts and post-processing techniques. The 3D-printed components in metallic materials represent a significant and growing portion of additively manufactured parts in increasingly diverse fields such as the medical, aerospace and automotive industries. There are different technologies used in metal additive manufacturing available today, classified by the energy source, the way the material is joined or the feedstock state. The present Special Issue aims to collect contributions on the additive manufacturing techniques for metallic materials, the effect of process parameters on the microstructural and mechanical properties of 3D-printed parts and post-processing techniques.

## Guest Editors

Prof. Dr. Michela Simoncini

Department of Industrial Engineering and Mathematical Sciences, Università Politecnica delle Marche, Via Brecce Bianche 12, 60131 Ancona, Italy

Dr. Tommaso Mancia

Department of Industrial Engineering and Mathematical Sciences, Università Politecnica delle Marche, Via Brecce Bianche 12, 60131 Ancona, Italy

## Deadline for manuscript submissions

closed (31 May 2023)

**Metals**

**an Open Access Journal by MDPI**

**Impact Factor 2.6**
**CiteScore 5.3**

mdpi.com/si/120214

*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 2.6
CiteScore 5.3

mdpi.com/journal/metals

# About the Journal

## Message from the Editorial Board

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.

## Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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 17.8 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 2024).

MDPI