# **Special Issue**

# Advances in Additive Manufacturing of Metallic Materials: Characterization, Properties and Applications

## Message from the Guest Editors

Additive manufacturing (AM), has advanced significantly in recent years in the field of metallic materials. AM has transformed the field of engineering by offering the freedom to fabricate complex components with minimum waste and high efficiency. The characterization and properties of materials play crucial roles in AM systems and their applications. This Special Issue is dedicated to publishing studies on the intricate relationships among AM process optimization, microstructure characterization, metal properties, and potential applications of AM. It aims to publish original research and high-quality review articles that address recent advancements in metal AM. This Special Issue will encompass a wide range of topics, including, but not limited to, the following: 1 Additive manufacturing of high-performance metallic materials; 2 Recent advances in novel additive manufacturing technologies and metallic materials; 3 Multi-material additive manufacturing technologies; 4 Material-processproperty integration in additive manufacturing; 5 Hybrid additive manufacturing technology and its applications.

### **Guest Editors**

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## Deadline for manuscript submissions

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## **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

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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).

