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## Additive Manufacturing in Alloy Design and Development

Guest Editors:

**Dr. Javad Kadkhodapour**

Institute for Materials Testing,  
Materials Science and Strength of  
Materials, University of Stuttgart,  
70569 Stuttgart, Germany

**Dr. Xuewei Fang**

State Key Laboratory for  
Manufacturing Systems  
Engineering, School of  
Mechanical Engineering, Xi'an  
Jiaotong University, Xi'an 710049,  
China

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### Message from the Guest Editors

Over recent years, additive manufacturing (AM) has proved to be the most promising emerging manufacturing technique for fabricating metallic materials due to its ability to fabricate components with high dimensional accuracy and complexity. While the development of new processes and materials is progressing very rapidly, and AM has been used in several industrial sectors such as aerospace, automobile, marine, construction, etc., design strategies for AM and structural optimization are lagging behind.

In order to fully utilize the advantages of AM and optimize the development of this technology, several new considerations should be taken into account. This Special Issue entitled “Additive Manufacturing in Alloy Design and Development” provides a forum for publishing original papers and case studies that advance the comprehensive development of metal AM, comprising design, process, post-processing and testing. It also outlines the fundamental development trends and most recent advances in the field.



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# Special Issue



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### **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

## 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.

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Metals Editorial Office  
MDPI, St. Alban-Anlage 26  
4052 Basel, Switzerland

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