

## Special Issue

# Wire Arc Additive Manufacturing of Metallic Components

### Message from the Guest Editors

Wire arc-based additive manufacturing (WAAM) has been a very active field of research in the last few decades. A key feature of WAAM is its ability to fabricate large scale metallic components at relatively high deposition rates, yet at low equipment costs. This Special Issue "Wire Arc Additive Manufacturing (WAAM) of metallic materials" intends to collect the latest developments in this field by well-known authors who have contributed significantly in the development, design and process improvements for producing metallurgically sound, defect-free, metallic components via WAAM. Metallic components may include, but are not limited to, Ni-based alloys, Al-based alloys, ferrous alloys, intermetallic systems and high entropy alloys. Topics addressed in the Special Issue may include, but are not limited to:

- Process development
- Path Planning, design and programming
- Process modeling
- Online control/process monitoring
- Industrial applications
- Robotic WAAM systems
- Metallurgical characterization
- Large-scale metallic components

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### Guest Editors

Dr. Kristin Carpenter

Prof. Dr. Chen Shen

Dr. Bintao Wu

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### Deadline for manuscript submissions

closed (31 July 2022)



## Metals

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*Metals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto:metals@mdpi.com)

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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.

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### 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

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### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei  
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#### 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 18.7 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 2025).