

## Special Issue

# Design and Fabrication of Lattice and Architected Materials via Metal Additive Manufacturing

### Message from the Guest Editors

Additive Manufacturing (AM) has revolutionized the fabrication of complex structures by utilizing a layer-by-layer approach, unlocking the potential of lattice and architected materials with digitally controlled meso- or microscale structures. This Special Issue is dedicated to exploring the latest developments in the design and fabrication of lattice and architected materials through metal AM. Research areas may include (but are not limited to) the following:

- Design and optimization of AM-fabricated metal lattice and architected materials;
- Process planning for AM-fabricated metal lattice and architected materials;
- AI or data-driven design and process planning for metal lattice and architected materials;
- Process–structure–properties or performance modelling of AM-fabricated metal lattice and architected materials;
- Bio-inspired design of metal lattice and architected metal materials;
- Novel additive or hybrid manufacturing processes of metal architected materials;
- Computational or generative designs of metal lattice and architected materials;
- Applications of AM-fabricated metal lattice and architected materials.

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### Guest Editors

Dr. Yunlong Tang

Dr. Guoying Dong

Dr. Dawei Li

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### Deadline for manuscript submissions

closed (31 January 2024)



## 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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#### 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).