

## Special Issue

# Novel Research and Advanced Technology in Laser Welding and Laser Additive Manufacturing

### Message from the Guest Editor

The laser beam is widely used as a heat source during welding and additive manufacturing, due to its high flexibility, high efficiency, and high precision. Laser welding and laser additive manufacturing provide a pathway to fabricate large-scale metallic components for aerospace, automotive, and offshore applications. Articles focusing on the review, investigation, and innovations of laser welding and laser additive manufacturing are welcome in this Special Issue of *Metals*. Research on laser welding and laser additive manufacturing of lightweight materials, such as aluminum and titanium alloys is welcome. Additionally, articles regarding the novel process, numerical simulation and online defect monitoring during laser welding and laser additive manufacturing are particularly welcome.

### Guest Editor

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### Deadline for manuscript submissions

closed (25 March 2024)



## Metals

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## 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.

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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).