

## Special Issue

# Brazing and Diffusion Welding of New Materials and Dissimilar Materials

### Message from the Guest Editor

We are proud to introduce our upcoming Special Issue of Metals, entitled “Brazing and Diffusion Welding of New Materials and Dissimilar Materials”. The development and applications of new materials and the joining of dissimilar materials are critical in advancing technology, across various industries. Brazing and diffusion welding are two prominent techniques that have shown significant potential in achieving strong, reliable joints in these challenging scenarios. This Special Issue will serve as a platform to explore novel bonding techniques and discuss evolving interfacial behaviors and strengths in this field. For this Special Issue, we will welcome a diverse range of studies on wetting, brazing, and diffusion wetting processes in new materials. Studies on DFT calculations for the corresponding interfaces would also fall within the scope of this Special Issue.

### Guest Editor

Dr. Xiangzhao Zhang

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### Deadline for manuscript submissions

closed (20 June 2025)



## 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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### Editors-in-Chief

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JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
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#### Rapid Publication:

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).