

## Special Issue

# Additive Technologies, Advanced Joining Technology and Study of Weld Joints

### Message from the Guest Editor

Welding is used to achieve permanent joints between a wide range of metallic, non-metallic and composite structural materials in the conditions of the Earth's atmosphere, the world's oceans and outer space. The use of light alloys, polymeric materials and composites in modern structures and products is constantly increasing, but steel remains the main structural material. Welding processes proceed according to complex physical and chemical laws at high temperatures, and the combination of various factors and phenomena determines the quality of welded joints. To improve the operational reliability of welded structures, new equipment and technologies for controlling the properties of welded joints are constantly being developed, new additive technologies using welding equipment and welding methods, and the multidisciplinary and hybridity of welding technologies with other types of production continuously increasing. In this Special Issue of the *Metals* journal, we welcome reviews and articles aiming to obtain new theoretical and practical knowledge in the field of welding, additives and related technologies.

### Guest Editor

Dr. Dmitry A. Chinakhov  
Siberian State Industrial University, 654007 Novokuznetsk, Russia

### Deadline for manuscript submissions

closed (31 March 2023)



## Metals

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*Metals*

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

[mdpi.com/journal/  
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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

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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 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 2024).