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Additive Manufacturing and Welding Technologies for High-Entropy Alloys and Dissimilar Metals

Guest Editors:

Dr. Dejia Liu
School of Materials Science and Engineering, East China Jiaotong University, Shuang Gang Dong Jie 808#, Economic and Technological Development Zone, Nanchang 330013, China

Prof. Dr. Longzhi Zhao
School of Materials Science and Engineering, East China Jiaotong University, Shuang Gang Dong Jie 808#, Economic and Technological Development Zone, Nanchang 330013, China

Deadline for manuscript submissions:
closed (20 January 2024)

Message from the Guest Editors

Dear Colleagues,

High-entropy alloys (HEAs) are defined as alloys with five or more principal elements. As the key processing methods, the additive manufacturing and welding technologies of high-entropy alloys have an impact on the future applications and technological developments of HEAs. The selection of feasible processes with optimized parameters is essential to enhance the applications of HEAs. However, the structure of HEAs varies with material systems, welding methods, and parameters. A systemic understanding of the structures and properties of the processed samples is directly relevant to the application of HEAs.

The current Special Issue aims to explore the advanced additive manufacturing and welding technologies of HEAs and to study the basic principles of microstructure and property regulations. The articles presented in this Special Issue will address various topics, ranging from, but not limited to, the design of novel types of HEAs, the exploration of advanced welding technologies, the optimization of process parameters, microstructure regulation, and the performance improvement of HEAs.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Materials_Mdpi