Special Issue

Welding and Additive Manufacturing of Metals

Message from the Guest Editors

Additive manufacturing has grown rapidly in recent years and is emerging as a key technology for the future, enabling the production of complex components across various industries. Welding remains one of the most widely used methods for joining metallic materials. The performance and reliability of metallic parts produced via additive manufacturing and welding depend heavily on process parameters, weldability, microstructure, mechanical properties, and defect control. To enhance quality, reliability, and readiness for industrial application, it is essential to understand, monitor, and optimize these factors. This Special Issue aims to present the latest advancements in welding and additive manufacturing to the readership of *Metals*. Topics of interest include, but are not limited to: advanced material design, microstructural and mechanical characterization, processing–property relationships, computational modeling and simulation, digitalization and Industry 4.0, and sustainability. We welcome original research articles and review papers from scientists, engineers, and industry professionals working in these areas.

Guest Editors

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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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