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Advanced Welding Technologies and Additive Manufacturing of Alloy and Metals

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Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on the latest research results of welding and the additive manufacturing technology of advanced metal materials, including microstructure, mechanical properties, and the quality control of welding and additive manufacturing based on heat sources such as arc, laser, and electron beam.

The key points are focused on the new strengthening mechanism, the relationship between microstructure and properties, the new microstructure control technologies, process stability, and defect on-line detection methods.

The current Special Issue aims to explore the advanced welding and additive manufacturing of alloy and metals and to study the basic principles of microstructure and property regulations. The articles presented in this Special Issue will address various topics, ranging from, the exploration of advanced welding technologies, microstructure regulation, and the performance improvement of alloy and metals.









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Message from the Editor-in-Chief

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