



Advanced Metal Welding and Joining Technologies—2nd Edition

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Welding and joining is the key assembling process in modern industry. The application of next-generation structural materials demands novel welding and joining technologies to yield high-quality products. Across this trend, the fundamental research involved not only the evolution of material properties during processing, but also the development of suitable equipment and necessary methods. This Special Issue is focused on advanced metal welding and joining technologies, of which the concerned topics include the following: (1) advanced metals that trigger demands for specific processing techniques; (2) fundamental research on the issue of material evolution during processing; (3) the service performance of the advanced metal joints; and (4) novel welding and joining devices and methods. Furthermore, any research which is related to metal processing technology will also be considered.

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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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