



Mechanical Properties of Metals Welding Joints

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Message from the Guest Editors

Dear Colleagues,

Carbon neutral and peak carbon dioxide emissions are effective ways to solve the world's increasingly complex climate and energy problems. New materials, such as high-entropy alloys, new processing technologies, such as 3D printing, and online detection as well as monitoring technologies of new materials, such as online monitoring of corrosion defects of key engineering structures, are important paths to promote sustainable development. In this Special Issue, we will focus on basic theoretical research, simulation research, and experimental research of new materials, new processing technology, and application scenarios of materials. Important theoretical results and typical applications of important detection and monitoring technology of material service behavior should be given more attention.

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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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