



metals



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Welding Experiment and Simulation of Metallic Materials

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Message from the Guest Editor

Dear Colleagues,

Welding is growingly used in a variety of industries, e.g., rail transportation, automotive, marine, power plants, biomedical micro-electro-mechanical systems (MEMS) and BioMEMS devices, etc. This special issue is focused on the challenges and opportunities faced by Welding Experiment and Simulation. Better understanding of the welding process and quality controlling methodologies used in the welding is of great significance for achieving the high quality welding process. Multi-disciplinary discussion and debate about the welding experiment, welding process simulation, welding quality improvement methodologies and welded joints performance will be encouraged.



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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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