Special Issue

Editorial Board Members' Collection Series: "Welding and Joining"

Message from the Guest Editors

Dear Colleagues This Special Issue, "Editorial Board Members' Collection Series: Welding and Joining", aims to gather cutting-edge research and innovative developments in the field of welding and joining technologies. This collection includes diverse studies conducted by leading experts, providing an overview of the latest techniques and applications in the field. Topics covered include advanced welding techniques such as friction stir welding, explosion welding, and clinching, as well as bonding with structural adhesives. This Special Issue also addresses critical issues such as fracture mechanisms, mechanical resistance in aggressive environments, and methodologies for defect detection and prevention. Particular attention is paid to process optimization and material characterization, focusing on the assessment of mechanical properties and the long-term reliability of joints. Another highly relevant topic is numerical modeling using finite element analysis software, which enables the accurate simulation of welding and joining processes, predicting the structural behavior and performance of joints under various operating conditions.

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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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