Special Issue

New Advances in Dissimilar Material Joining

Message from the Guest Editors

The joining of different materials is recognized as a challenge for the development of new structural components within the production industry. Multi-material design is mainly hindered by challenges in the field of joining technology. The prerequisite for the production of such multi-material components is the availability of suitable joining technologies. This Special Issue will provide an overview of the recent advances in the welding and joining of dissimilar materials, in terms of processing, microstructure, and mechanical properties, to provide an up-to-date overview of the current state-of-the-art and the future directions of welding and joining dissimilar materials. The focus of the Special Issue is on, but is not limited to, non-conventional joining processes for joining metals to other metals or to non-metallic materials, such as composites, ceramics, or more advanced materials (including hybrid metal-composite materials, metal foams, etc.).

Guest Editors

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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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