

Special Issue

Characterization of Welded Joints

Message from the Guest Editor

Welding remains as one of the most important manufacturing processes in the metalworking industry. Its critical importance is revealed in many applications, from small devices such as pacemakers to huge metallic structures. The development of new metallic materials is an important challenge for welding, because it presents new difficulties that need to be overcome. Furthermore, welding processes such as friction stir welding, laser, and electron beam have significant potential for investigation. Thus, this Special Issue intends to disseminate high-quality research carried out in the area of the welding processes, namely, in the characterization of welded joints considering different processes and challenging alloys, taking advantage of welding parameters' regulation and the use of different filler metals, thus improving by the properties of welded joints.

Guest Editor

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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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