Special Issue

Additive Technologies, Advanced Joining Technology and Study of Weld Joints

Message from the Guest Editor

Welding is used to achieve permanent joints between a wide range of metallic, non-metallic and composite structural materials in the conditions of the Earth's atmosphere, the world's oceans and outer space. The use of light alloys, polymeric materials and composites in modern structures and products is constantly increasing, but steel remains the main structural material. Welding processes proceed according to complex physical and chemical laws at high temperatures, and the combination of various factors and phenomena determines the quality of welded joints. To improve the operational reliability of welded structures, new equipment and technologies for controlling the properties of welded joints are constantly being developed, new additive technologies using welding equipment and welding methods, and the multidisciplinarity and hybridity of welding technologies with other types of production continuously increasing. In this Special Issue of the *Metals* journal, we welcome reviews and articles aiming to obtain new theoretical and practical knowledge in the field of welding, additives and related technologies.

Guest Editor

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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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