



Recent Developments in Friction Stir Welding Technology and Applications

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Message from the Guest Editor

Friction Stir Welding (FSW) technology is a solid-state welding process, patented by The Welding Institute (TWI) in 1991. Although it was initially conceived for the joining of aluminum alloys, the analysis of the welds obtained via FSW quickly revealed the potential of this technology to be used in the similar and dissimilar joining of other non-ferrous and ferrous materials, as well as in the production of new materials and/or in the transformation of surfaces. When used with these two objectives, the FSW technology becomes known as Friction Stir Processing (FSP).

The research and development in the joining and processing of materials via FSW is still under development. The diversity of applications, as well as the number of technology variants, both in terms of welding and material processing, continues to grow. The works published worldwide based on the use of FSW technology cover topics ranging from applied sciences to fundamental sciences. This Special Issue aims to compile any new developments in any of these areas.





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Message from the Editor-in-Chief

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