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Alloy Specific Considerations for Friction Stir Welding

Guest Editor:

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editor

With a growing library of information available from the friction stir welding community, the recognition that solid-state processing may influence different alloys in unique ways is clear. Numerous studies focus on one specific alloy or another, allowing for secondary comparisons of the influence of varying alloys in a friction stir process, but few studies directly evaluate the effect of the alloys on the process.

This Special Issue seeks papers that help to elucidate the differences between alloys that have been processed with friction stir technologies, specifically in the following areas:

- Effects of tooling and process parameters;
- Alloy/material-specific microstructures and textures;
- Unique properties derived from advanced characterization and testing;
- Modeling and simulation results capable of distinguishing alloy specific variation;
- Distortion and residual stress data specific to alloys.

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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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