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Recent Trends in Friction Stir-Related Manufacturing Technologies

Guest Editor:

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to capture the latest trends and developments in these friction stir-related manufacturing technologies. We invite researchers worldwide to submit original research papers, review articles, and short communications that explore the latest advancements in friction stir manufacturing technologies. We are particularly interested in papers that provide new insights, innovative approaches, and substantial advancements in the application of these techniques.

Potential topics include, but are not limited to, the following:

- Developments in tool design in friction stir related manufacturing processes
- Innovations in microstructural modifications through friction stir processing
- Applications of additive friction stir deposition in complex part fabrication
- Comparative studies of friction stir manufacturing technologies and conventional manufacturing processes
- Theoretical modeling and simulation of friction stir manufacturing processes
- Case studies demonstrating industrial applications and efficiencies gained through these technologies

We look forward to your innovative contributions to this dynamic field.

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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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