

Development of Friction Stir Welding and Processing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on new FSW/P (Friction stir welding/processing) technologies and basic investigations into the affecting factors and the underlying mechanisms for these technologies. The topics of interest for this Special Issue, in particular, include (but are not restricted to):

- Novel FSW technologies via assisted energy to improve quality and efficiency;
- Friction stir modifications of surfaces to generate functional surfaces for tribological, corrosion, and design properties;
- Fabrication of new multifunctional materials based on severe plastic deformation and low temperature;
- Joining of different material combinations and dissimilar materials with coatings to improve interfacial metallurgy and joining performance;
- Control strategies for inherent issues in FSW/P area;
- Additive manufacturing for adapted friction stir-based technologies;
- Any other aspects of novel FSW and FSP technologies.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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