# Special Issue

# Friction Stir Welding and Processing of Alloys

**Message from the Guest Editors**

We would like to invite you to contribute to this Special Issue of Lubricants entitled *Friction Stir Welding and Processing of Alloys*. Friction stir welding (FSW) and processing (FSP) has gained increasing interest and importance since their invention almost two decades ago.

This Special Issue aims to bring together recent scientific advancements and innovations in the field of FSW and FSP with an emphasis on manufacturing and materials processing. The desired topics of contributions include, but are not limited to:

- Friction stir welding and its variants such as friction stir spot welding (FSSW), refill FSSW, etc.;
- Friction stir processing and its variants such as friction stir alloying (FSA), friction stir extrusion (FSE), etc.;
- Friction stir additive manufacturing;
- Characterization of microstructure and mechanical properties;
- Surface properties such as surface hardness, wear, corrosion, etc.;
- Quality inspection;
- Equipment and tooling;
- Process monitoring, control, and automation;
- Modeling and simulation;
- Manufacturing applications.


**Guest Editors**

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**Deadline for manuscript submissions**

closed (31 July 2023)


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## About the Journal

### Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants.*

### Editor-in-Chief

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