

Special Issue

Friction Stir Welding and Processing of Lightweight Alloys

Message from the Guest Editors

As a new solid-phase bonding technology, friction stir welding and processing are considered one of the most important methods for lightweight alloys due to their lower thermal cycle. Compared to fusion welding and processing, friction stir welding and processing exhibit great advantages such as less deflection and residual stress, and thus reduce the possibility of hot crack initiation. Therefore, friction stir welding and processing of lightweight alloys have become an important research direction, and more research should be deeply carried out.

This Special Issue of *Crystals* provides a platform for researchers to report results and findings in friction stir welding and processing of lightweight alloys, including magnesium/aluminum/titanium/steel alloys, experiment/modeling methods, microstructure, properties, and relevant crystallization studies.

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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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