

Special Issue

Editorial Board Members' Collection Series: "Laser Welding and Additive Manufacturing"

Message from the Guest Editors

Laser welding and additive manufacturing have revolutionized the field of metal processing, enabling unprecedented precision, efficiency, and design freedom. These advanced technologies are reshaping industries such as aerospace, automotive, energy, and medical, where high-performance metallic components are critical. The synergy between laser welding and additive manufacturing further enhances the potential for innovation. Despite these advances, challenges remain, including optimizing process parameters, understanding material behavior under high thermal gradients, and ensuring the mechanical reliability of fabricated parts in demanding environments. This Special Issue aims to explore the latest advancements in laser welding and additive manufacturing, focusing on their application to metallic materials. Topics of interest include process optimization, microstructural analysis, mechanical performance evaluation, and the development of novel alloys or coatings tailored for these technologies. Contributions addressing hybrid approaches, industrial case studies, and the integration of these methods into sustainable manufacturing systems are particularly welcome.

Guest Editors

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About the Journal

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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