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Laser Welding and Welding Joint Quality Assessment - State of Art

Guest Editor:

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editor

This Special Issue intends to contribute to the state of the art in Laser Welding and Welding Joint Quality Assessment in order to become a reference in the area. The proposed themes include but are not limited to:

Phenomena involved in laser welding (LBW);
Comparative analysis between LBW and other techniques;
Quality and qualification of laser welding;
Development of alternative joining techniques with laser beams;
Microstructural, mechanical and chemical characterization of LBW joints;
Welding of advanced materials and new techniques in conventional materials;
New frontiers in LBW;
Case studies, including well-described industrial applications;
Sustainability of LBW processes;
LBW in the green economy.

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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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