



Laser Welding Technology

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Message from the Guest Editor

Laser welding of metals is an important technology. In reality, the joining of same or dissimilar metals together using laser radiation is an extremely complicated process, which contains a large number of physical and metallurgical effects. Improvement of laser welding product quality relies on an increased understanding of laser welding process and the ways in which this process can be monitored and controlled by advanced techniques. In addition, with synergistic action of the laser beam and arc, laser-arc hybrid welding is also an attractive technique which offers many advantages.

Articles focusing on the review, investigation, and innovations of laser welding and laser-arc hybrid welding of metals are welcome to this Special Issue of *Metals*. Research on welding process monitoring based on various sensors, modeling and control of laser welding process, metallurgical and mechanical properties of laser weld will be expected. Experimental studies and simulations of laser welding and laser-arc hybrid welding, as well as industrial applications, are of interest in this Special Issue.





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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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