



Laser Welding

Guest Editors:

Prof. João Pedro Oliveira

Faculdade de Ciências e
Tecnologias, Universidade Nova
de Lisboa, 2829-516 Caparica,
Portugal

Prof. Dr. Zhi Zeng

School of Mechanical and
Electrical Engineering, University
of Electronic Science and
Technology of China, No.2006,
Xiyuan Ave, West Hi-Tech Zone,
Chengdu, China

Deadline for manuscript
submissions:

closed (31 March 2018)

Message from the Guest Editors

Dear Colleagues,

Laser welding is a high-energy process used in a wide range of advanced materials to obtain micro to macro sized joints in both similar and dissimilar combinations. Moreover, this technique is widely used in several industries such as automotive, aerospace, and medical industries as well as electrical devices. Although laser welding has been used for several decades now, significant and exciting innovations often arise from both the process and/or material's side.

This Special Issue of *Metals* is dedicated to Laser Welding and aims to present new and recent developments related to this topic. Topics of interest include, but are not limited to: effects of laser welding on the material's microstructure and performance; development of laser welding procedures for new advanced materials; modelling and simulation of laser/material interaction, thermal effects, stresses and distortion; hybrid laser welding. Papers which combine both experimental and theoretical approaches are specially welcomed.

Dr. João Pedro Oliveira

Prof. Dr. Zhi Zeng

Guest Editors





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/Metals_MDPI)