



an Open Access Journal by MDPI

Welding, Joining, and Additive Manufacturing of Metals and Alloys (Second Edition)

Guest Editors:

Dr. Damjan Klobcar

Faculty of Mechanical Engineering, University of Ljubljana, Aškerčeva 6, 1000 Ljubljana, Slovenia

Dr. Drago Bračun

Laboratory for Mechatronics, Production systems and Automation, Faculty of Mechanical Engineering, University of Ljubljana, Ljubljana, Slovenia

Dr. Tomaž Vuherer

Laboratory for Welding, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

Deadline for manuscript submissions: **10 May 2025**

Message from the Guest Editors

Dear Colleagues,

The constant development of new materials and products also promotes the research and development of welding, ioining, and build-up welding technologies as well as additive manufacturing technologies. These investigations are multidisciplinary and include processes and their automatization, monitoring and control, materials. weldability and joinability of materials and alloys, design of products and joints, and advanced characterisation and numerical simulations to comprehensively understand physical and metallurgical phenomena. A successful understanding of these phenomena enables the development of solutions to overcome these problems. This Special Issue aims to report basic and applied research results as well as case studies in the field of weldability and joinability of materials, additive manufacturing, automation, process improvement, and advanced characterisation



mdpi.com/si/208898







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials. materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi