

IMPACT FACTOR 3.4

Indexed in: PubMed



an Open Access Journal by MDPI

Additive Manufacturing and Innovative Welding Technologies for Light Alloys

Guest Editors:

Prof. Dr. Lucjan Śnieżek

Faculty of Mechanical Engineering, Military University and Technology, 2 Kaliskiego Street, 00-908 Warsaw, Poland

Prof. Dr. Grzegorz Budzik

Faculty of Mechanical Engineering and Aeronautic, Rzeszow University of Technology, Powstancow Warszawy 12, 35-959 Rzeszow, Poland

Prof. Dr. Grzegorz Królczyk

Department of Manufacturing Engineering and Production Automation, Faculty of Mechanical Engineering, Opole University of Technology, 5 Mikolajczyka Street, 45-271 Opole, Poland

Deadline for manuscript submissions:

closed (31 May 2021)

Message from the Guest Editors

Advanced welding additive and manufacturing technologies are characterized by tremendous industrial and academic interest. One of the most important issues connected with the usage of the aforementioned technologies is their capacity of production of lightweight components with high geometrical complexity and very good mechanical properties in comparison with conventional processes. Technologies, which are the main topic of the issue, provide significantly higher design freedom, especially for single or low series production. All these advantages go hand in hand with optimal design theory, very often based on topological optimization. However, the mechanical performance of the elements obtained using innovative welding technologies or produced using additive manufacturing technologies has not been clarified yet.

The main scope of this Special Issue is to provide specialistic, scientific knowledge from all fields involving mainly mechanical properties and structural analysis. The issue is dedicated to a wide range of applications, including mechanical engineering, biomedical engineering, civil engineering, material science, manufacturing, nanotechnology, tribology, and others.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. 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 biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. 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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us