Special Issue

Laser Processing of Metals and Alloys: Structures, Properties, and Applications

Message from the Guest Editors

In the realm of materials science and engineering, the profound influence of laser processing on metals and alloys marks a frontier where precision meets innovation. Laser processing stands out as a transformative technology, directing the course of material properties and applications through meticulous control of interactions at the micro- and nanoscales. This Special Issue is a call to the scientific community to contribute with novel insights into the "Laser Processing of Metals and Alloys: Structures, Properties, and Applications." Metals and alloys, owing to their fundamental roles in various industries, undergo a paradigm shift when subjected to laser-induced modifications. The mechanical strength, thermal conductivity, and corrosion resistance of these materials are intricately shaped by laser processing techniques, paving the way for unprecedented possibilities. Welcome to submit a paper to our Special Issue!

Guest Editors

Dr. Felipe Arias-González

Dr. Óscar Barro

Dr. Daniel Wallerstein

Dr. Pablo Pou Álvarez

Deadline for manuscript submissions

closed (20 January 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/190171

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, 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.

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

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 and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)