Special Issue

Recent Developments in Welding Technology of Materials

Message from the Guest Editor

The development of an advanced joining process is a significant objective when it comes to determining the ideal multimaterial design. This involves both an advanced joining process and advanced surface modification technology for bulk materials. Friction stir welding is the main element of bulk joining, and using a non-melting plastic flowing process in the place of regular fusion welding is expected to offer infinite possibilities as regards the future of welding and joining processes. Joining dissimilar materials via friction stirring is main topic of this Special Issue, but thermal spraying, cold spraying, and aerosol deposition in the surface modification process of materials are also of interest. A common feature in these three processes is the formation of a thick coating with so-called particle deposition, and papers focusing on the verification of the coating formation mechanism in the PD process are invited.

Guest Editor

Prof. Masahiro Fukumoto

Research Administration Center, Toyohashi University of Technology, Toyohashi, Japan

Deadline for manuscript submissions

closed (20 April 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/99819

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

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)