



*materials*



an Open Access Journal by MDPI

## Advances in Welding Techniques, Welding Inspection, and Welding Testing Methods

Guest Editors:

**Dr. Chih-Chun Hsieh**

Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taipei City 106335, Taiwan

**Dr. Chunming Lin**

Department of Mechanical Engineering, Minghsin University of Science and Technology, Hsinchu 30401, Taiwan

Deadline for manuscript submissions:

**20 June 2024**

### Message from the Guest Editors

Dear Colleagues,

Over the years, there have been significant advancements in welding techniques, resulting in improved efficiency, quality, and adaptability. This Special Issue aims to explore and showcase the latest developments in this field, providing a platform for researchers to share their innovative ideas and findings.

The papers included in this Special Issue cover a wide range of topics, including new materials and filler metals, novel welding processes, and advancements in inspection and testing methods. We encourage submissions of original research articles and review papers that explore how these innovations can enhance the overall welding process, resulting in stronger and more reliable joints.

Dr. Chih-Chun Hsieh

Dr. Chunming Lin

*Guest Editors*



[mdpi.com/si/191203](https://mdpi.com/si/191203)

# Special Issue



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 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.

## 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

Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)