



*materials*



an Open Access Journal by MDPI

## Tools for Machining and Forming: Novel Materials and Wear Behaviour

Guest Editors:

**Dr. Francisco J. G. Silva**

Department of Mechanical Engineering, ISEP–School of Engineering, Polytechnic of Porto, 4200-072 Porto, Portugal

**Dr. Abílio M. P. De Jesus**

Department of Mechanical Engineering, Faculty of Engineering, University of Porto, 4200-465 Porto, Portugal

**Dr. Rita De Cássia Mendonça Sales**

College of Technology São José dos Campos, Centro Paula Souza, São José dos Campos, Brazil

### Message from the Guest Editors

Dear Colleagues,

Machining and forming processes ensure a high level of accuracy and quality of surface finish. The wear phenomena linked to the tools used in these processes are well known. Surface treatments and coatings have been extensively used to extend the useful life of tools. Different tool materials have been studied and tested to this end. Research into wear phenomena and materials that can ensure greater tool longevity remains very active. This Special Issue aims to bring together work related to the study of materials and coatings, with a view to increasing the useful life of tools. Other work related to machining and forming is also welcome.

Deadline for manuscript submissions:

**20 July 2024**



[mdpi.com/si/194043](https://mdpi.com/si/194043)

# 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)