

## Special Issue

# Research on Tribology and Anti-wear Behavior of Metals and Their Alloys

### Message from the Guest Editors

Research on the tribology and anti-wear behavior of metals and their alloys is an important area of study in materials science and engineering. Tribology is the science of interacting surfaces in relative motion, including the study of friction, wear, and lubrication. Understanding the anti-wear behavior of metals and alloys is critical for the development of new materials and for improving the efficiency and durability of various mechanical systems. The research topics that we would like contributors to address include, but are not limited to, the following: Tribological behavior of materials and alloys; Corrosion and tribocorrosion tests of materials and alloys; Anti-wear coating tests; The impact of the operating environment on machine part wear; The impact of ecological lubricants on wear in friction nodes; Material wear processes associated with friction in sliding machine nodes (complex wear processes); Mathematical modeling of friction processes; Anti-wear of diffusion layer tests; Changes in the microstructure caused by the phenomena of corrosion, wear, or tribocorrosion. It is our pleasure to invite you to submit your article to this Special Issue of *Materials*.

---

### Guest Editors

Dr. Aneta Bartkowska

Dr. Dariusz Ulbrich

Dr. Arkadiusz Stachowiak

Dr. Dariusz Bartkowski

---

### Deadline for manuscript submissions

20 February 2025



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 5.8  
Indexed in PubMed



[mdpi.com/si/168115](https://mdpi.com/si/168115)

*Materials*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

[mdpi.com/journal/  
materials](https://mdpi.com/journal/materials)





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 5.8  
Indexed in PubMed



[mdpi.com/journal/  
materials](https://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 - Q1 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q2 (Condensed Matter Physics)