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

closed (20 February 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/168115

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

mdpi.com/journal/materials

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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

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