



an Open Access Journal by MDPI

Research about Friction and Wear Modeling for Materials

Guest Editors:

Prof. Dr. Izhak Etsion

Faculty of Mechanical
Engineering, Technion - Israel
Institute of Technology, Haifa
32000, Israel

Dr. Haibo Zhang

Faculty of Mechanical
Engineering, Technion - Israel
Institute of Technology, Haifa
32000, Israel

Deadline for manuscript
submissions:

closed (10 April 2023)

Message from the Guest Editors

Dear Colleagues,

Friction and wear are two essential issues in tribology. Accurate modeling of friction and wear still remain unsolved due to their formidable complexity, involving several areas of surface science such as physics, chemistry, materials, mechanics, etc., which have to be considered to realistically model these issues.

Numerical techniques have allowed advances in our understanding and more realistic simulations of friction and wear mechanisms. However, some simplifying assumptions are still being used to overcome complex issues.

This Special Issue forms a collection of ongoing research in friction and wear. Contributions are solicited from researchers working in advancing the current modeling and their experimental validation.

Prof. Dr. Izhak Etsion

Dr. Haibo Zhang

Guest Editors





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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)