



Tribology in Manufacturing and Design

Guest Editors:

Prof. Dr. Jeng-Haur Horng

Department of Power Mechanical Engineering, National Formosa University, Yunlin 63201, Taiwan

Prof. Dr. Yunn-Lin Hwang

Department of Mechanical Design Engineering, National Formosa University, Yunlin 632, Taiwan

Dr. Thi-Na Ta

Institute of Mechanical and Electro-Mechanical Engineering, National Formosa University, Yunlin 63201, Taiwan

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

The application of appropriate tribology design and manufacturing can reduce or avoid excessive friction and wear at the contact interface, extend machine lifetimes, and improve system reliability. However, along with the progress and development of our society, the requirements for precision and environmental protection have become increasingly stringent. Hence, tribology in design and manufacturing is facing more challenges. For example, green lubricants, green manufacturing, machine learning, and tribology monitoring are developing rapidly.

The current Special Issue is mainly connecting experts and scholars in related areas from all over the world, and scholars who participate in the 2022 International Conference on Engineering Tribology and Applied Technology to discuss and exchange in-depth on the issue. We welcome experts in related areas to participate in this platform.

Keywords

tribology in manufacturing systems
tribology in manufacturing design
tribology in manufacturing efficiency
tribology in vibration and noise
tribology in mechanism design
tribology in surface damage
bio-lubricants
lubricant degradation
tribological failure diagnosis and monitoring





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Homer Rahnejat

School of Engineering, University
of Lancashire, Preston PR1 2HE,
UK

Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants*.

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Mechanical Engineering)

Contact Us

Lubricants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/lubricants
lubricants@mdpi.com
X@Lubricants_MDPI