lubricants

an Open Access Journal by MDPI

IMPACT FACTOR 2.9

CITESCORE 4.5

Tribochemistry and Interfaces

Guest Editor:

Assoc. Prof. Dr. Clotilde Minfray
Laboratory of Tribology and System Dynamics, Ecole Centrale de Lyon, University Lyon, ENISE, ENTPE, CNRS UMR5513, 69134 Ecully, France

Deadline for manuscript submissions:
closed (20 December 2019)

Message from the Guest Editor

Dear Colleagues,

In a tribological contact, interfaces have the specificity to be under motion, making studies very complicated. Under certain conditions, chemical reactions could occur within these interfaces and generate a new compound called a tribofilm due to a tribochemical process. This tribofilm, with a thickness of only few nanometers in some cases, is able to control both wear and friction in the contact. The understanding of tribochemical phenomena is an actual key scientific challenge that this Special Issue proposes to address.

This Special Issue aims to publish the latest developments in the field of tribochemistry. Research articles dedicated to any kind of tribochemical phenomena under dry or fluid lubrication and involving different types of lubricant additives, coatings, gas, etc., will be of great interest to this Special Issue. Tailoring surfaces to optimize tribochemical reactivity is also considered an interesting aspect. Advanced in-situ tribometry studies, recent developments of tribofilm characterization techniques, and modeling studies are also highly welcome.

Prof. Dr. Clotilde Minfray

Guest Editor

lubricants

IMPACT FACTOR 2.9

CITESCORE 4.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Homer Rahnejat
School of Engineering, University of Central 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