

Special Issue

Tribological Properties of Soft Materials

Message from the Guest Editors

This Special Issue aims at presenting *Original Research Articles* and *Reviews* on the *Tribological Properties of Soft Materials*. Soft materials, including different kinds of liquids, liquid dispersions, gels and greases, have found extensive tribological applications in the past decades. By generating a complicated interfacial “tribofilm” capable of providing either physical or tribochemical lubrication, soft materials can effectively reduce the friction and abrasion between the two contacting surfaces to a satisfactory level. Although a number of significant research advances concerning the tribological behavior of soft materials have been achieved, the design and preparation of high-performance and eco-friendly liquid and semi-solid lubricants, the homogenous mixture and dispersion of various additives in liquids and gels, the formation and composition of resultant tribofilms, the tribochemical mechanism of “soft” lubricants, and the in-time or in-space lubrication control

Guest Editors

Dr. Lu Xu
Dr. Xia Zhang
Dr. Baogang Wang

Deadline for manuscript submissions

31 December 2025



Lubricants

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 4.5



mdpi.com/si/205090

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

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





Lubricants

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 4.5



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



About the Journal

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*.

Editor-in-Chief

Prof. Dr. Homer Rahnejat
School of Engineering, University of Lancashire, Preston PR1 2HE, UK

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).