Special Issue

Tribological Properties of Biolubricants

Message from the Guest Editors

The limited natural resources and severe environmental issues that humanity is currently facing inherently drive the need for sustainable development in nearly every industry, such as aerospace, marine, automobile engineering, and manufacturing. To eliminate the negative effect of traditional mineral lubricants, the use of biolubricants is widely researched in the tribology and manufacturing fields. Its improved anti-wear and anti-friction performance have been preliminarily verified by experimental studies. Previous studies have also concluded the major influencing factors of tribological properties, including nano-enhancement, molecular structures, physicochemical properties, and so on. Nevertheless, the complex action of biolubricants is indistinct, which limits the preparation of process specifications and their popularity in factories.

Guest Editors

Dr. Xin Cui
Prof. Dr. Yanbin Zhang
Dr. Xiaoliang Liang

Deadline for manuscript submissions

closed (31 May 2026)

Lubricants

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 5.6

mdpi.com/si/197344

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

mdpi.com/journal/lubricants

Lubricants

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 5.6

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 15.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).