

Special Issue

Emission and Transport of Wear Particles

Message from the Guest Editors

The generation, emission, and transport of wear particles are complex processes involving various interrelated mechanical, thermal, electrical, and chemical phenomena. Their investigation requires a systematic approach based on the application of different techniques and principles of tribology, mechanics, heat and mass transfer, aerosol science, electromagnetism, chemistry, etc. Studies focusing on the reduction of wear particle emissions as well as those investigating the underlying mechanisms are of great practical and scientific interest as the implementation of the results obtained in these studies may potentially contribute to achieving global sustainable development goals. This Special Issue aims to promote advances in wear particle generation and emissions. The scope includes topics related to the generation, emission, and transport of wear particles from different sources, including the tribological aspects of particle formation, quantitative and qualitative assessments of particle emissions, and chemico-physical particle characterisation using various measurement techniques and instrumentation.

Guest Editors

Dr. Oleksii Nosko

Dr. Yezhe Lyu

Dr. Hiroyuki Hagino

Dr. Mara Leonardi

Deadline for manuscript submissions

closed (30 September 2024)



Lubricants

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 4.5



mdpi.com/si/172728

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 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).