

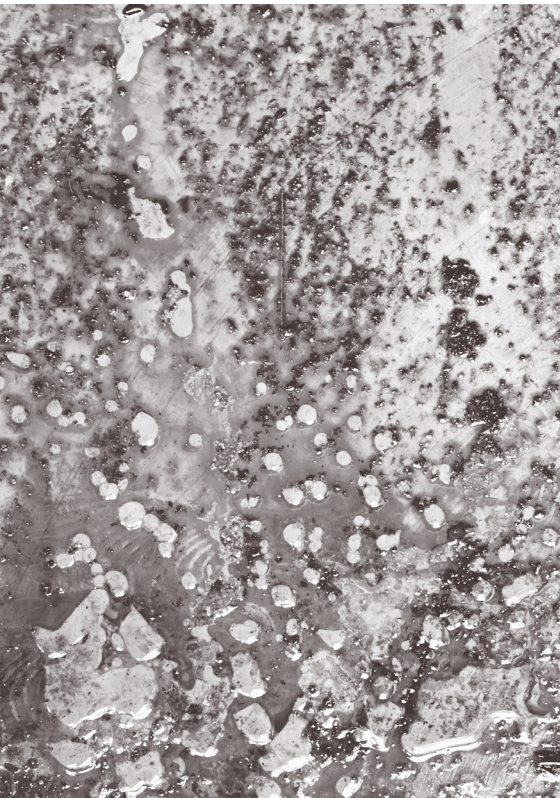


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Lubricants



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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

Associate Editor

Prof. Dr. Michel Fillon

Aims

Lubricants (ISSN 2075-4442) is an international scientific open access journal. *Lubricants* covers all aspects of tribology, including the study and application of the principles of friction, lubrication, and wear.

Scope

The scope of *Lubricants* includes:

- Lubrication, comprising hydrostatics, hydrodynamics, elasto-hydrodynamics, mixed and boundary regimes of lubrication
- Friction, comprising viscous shear, Newtonian and non-Newtonian traction, boundary friction
- Wear, including adhesion, abrasion, tribo-corrosion, scoring and scoring
- Cavitation and erosion
- Sub-surface stressing, fatigue spalling, pitting, micropitting
- Contact Mechanics: elasticity, elasto-plasticity, adhesion, viscoelasticity, poroelasticity, coatings and solid lubricants, layered bonded and unbonded solids
- Surface Science: topography, tribo-film formation,
- lubricant–surface combination, surface texturing, micro-hydrodynamics, micro-elasto-hydrodynamics
- Rheology: Newtonian, non-Newtonian fluids, dilatants, pseudo-plastics, thixotropy, shear thinning
- Physical chemistry of lubricants, boundary active species, adsorption, bonding

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Editorial Office

lubricants@mdpi.com

MDPI

St. Alban-Anlage 66

4052 Basel, Switzerland

Tel: +41 61 683 77 34

mdpi.com

