Special Issue

Rheological Characteristics of Lubricants and Soft Tribo-Materials

Message from the Guest Editors

The objective of this *Lubricants* special topic is to collect and present a series of state-of-the-art and cutting-edge developments, innovations and discoveries on the rheological/viscoelastic behavior of lubricants and/or soft tribo-materials with an impact on the overall tribological performance, reliability and sustainability of tribo-systems. Contributions reporting on theoretical, numerical and/or experimental approaches in the form of original research, case studies, reviews, methods or research reports are very welcome. The article collection encompasses, but is not limited to, the following research themes or areas with special impact on the behavior of tribo-systems:

- Rheology of lubricants.
- Rheology of bio/nano lubricants.
- Rheology of soft tribo-materials: elastomers, polymers, skin, etc.
- Lubrication of soft materials.
- Viscoelastic lubrication.
- Influence of temperature and pressure on rheology of lubricants.
- Sliding interfaces of viscoelastic materials: dry or lubricated contacts.
- Slip of lubricants at solid boundaries.

Guest Editors

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Deadline for manuscript submissions

closed (10 May 2024)

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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

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