

Special Issue

Tribological Challenges in Extreme Environments

Message from the Guest Editors

Extreme temperature affects viscosity and surfaces characteristics, which are closely related with friction, durability and performance. This Special Issue aims the latest advances in tribological challenges in extreme environments. Contributions are welcome from both academic researchers and their industrial peers, dealing with innovating novel cryogenics applications and revealing compatibilities with other solid lubricants. This Special Issue will cover but not limit to the following topics:

- Behavior of lubricants under extreme temperature
- Solid lubricants and applications
- Cryogenics in manufacturing processes
- Friction and wear in low temperature systems: artic engineering and offshore
- Rheology of oils in relation to temperature.
- Space applications
- Testing under low temperatures
- Coatings with special application to extreme conditions.

Prof. Dr. Luis Norberto López de Lacalle

Guest Editors

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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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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).