

Special Issue

Thermomechanical Tribological Behaviors and Damage Failure in Engineering Applications

Message from the Guest Editors

The goal of this Special Issue is to gather the contributions and progress of leading scientists in the field of thermomechanical tribological behaviors and damage failure in engineering applications. The scope includes the mechanism and characteristics of thermomechanical friction and wear, the mechanism of material microstructure and performance changes, the self-excited vibration and temperature rise mechanism of friction interface, the prediction method of thermomechanical tribology behavior, thermal fatigue damage and thermal crack initiation/propagation, heat dissipation measures and thermal management technology, high-temperature lubrication failure, selection of high-temperature friction materials, high-temperature wear-resistant design, etc. We welcome all scientists working in the fields of tribology, fatigue and fracture, thermodynamics, dynamics, contact mechanics, damage mechanics, materials science, and other related fields to contribute to this Special Issue.

Guest Editors

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Deadline for manuscript submissions

31 August 2025



Lubricants

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Impact Factor 2.9
CiteScore 4.5



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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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