Special Issue

Oneness in Tribology of Mechanical Components

Message from the Guest Editors

Tribology is an interdisciplinary field that encompasses a wide range of topics, including lubrication, friction, and wear. Adopting a lifecycle perspective allows for a more systematic and comprehensive exploration of the underlying principles governing lubrication and wear. This Special Issue, centered on the concept of "Oneness", aims to encourage scholars to systematically investigate all phases of a mechanical component's lifecycle from a unified perspective. For instance, studies may involve the integrated analysis of coupled mechanisms in different lubrication regimes, such as the behaviors of anti-wear additive boundary films and surface anti-wear coatings under elastohydrodynamic and mixed lubrication. Alternatively, research may explore the complex relationships among lubrication, wear, and fatigue failure, such as the evolution of micro-damage on surfaces during starved lubrication. This multi-stage, multi-factor research perspective—with its focus on deepening recognition of the rules governing the lifespan of mechanical components—will enable more comprehensive understanding and contribute to breakthroughs in the field of tribology.

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.*

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