

Special Issue

Thermophysical and Tribological Characterization of Additivated Lubricants with Nanoparticles

Message from the Guest Editors

This Special Issue delves into the realm of thermophysical and tribological characterization of nanoparticle-enriched lubricants, aiming to unravel the complex dynamics involved and explore the potential of nanoparticle additives. Nanoparticles, owing to their unique size-dependent properties, exhibit remarkable abilities to modify the behavior of lubricants, offering promising opportunities for enhancing lubrication efficiency and durability across diverse industrial applications. Within this Special Issue, researchers converge to explore the multifaceted aspects of nanoparticle-lubricant interactions. From elucidating the thermophysical properties of nanoparticle-loaded lubricants to dissecting their tribological performance under varying conditions, each contribution endeavors to illuminate the path toward harnessing the full potential of these nano-additives.

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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