Special Issue

Gas Lubrication and Dry Gas Seal

Message from the Guest Editors

Gas has distinct advantages as a clean lubricant in the applications of load bearing and sealing in high-speed and high-precision machinery. Due to its low viscosity, aerodynamic and aerostatic lubrication can overcome the DN value limit compared with rolling and liquid bearings without producing much frictional heat and power consumption. However, low viscosity also leads to insufficient load capacity and viscous damping, and some significant scientific and technic problems also have emerged following the demand of more extreme and special applications. Hybrid lubrication and interdisciplinary problems can also bring interesting topics to this research field. This Special Issue aims to promote original research articles and review papers with topics related to state-to-art theoretical and experimental work on gas lubrication and dry gas seal.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2024)



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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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