

Special Issue

Advances in Lubricated Bearings, 2nd Edition

Message from the Guest Editors

Understanding the physics of lubricated bearings is essential for their design and optimization to achieve robust, reliable, and highly efficient operation in rotating machinery. Extensive investigations reported in the international literature have contributed significantly to the current state of the art in practical applications, as tribology engineers from practice and research maintain close relationships. In recent decades, improvements in design, lubrication, and materials have led to significant increases in the power density attainable at higher mechanical or thermal loads. Despite these achievements, there are still phenomena that are not sufficiently described, understood, or solved, and that are becoming more important due to novel applications or the extension of operating ranges. This Special Issue is a continuation of its first part and aims to share progress in understanding specific phenomena, improved design, and other novel aspects in the field of lubricated rolling and sliding bearings. It covers materials, fluid flow, and the interaction of the bearing with other machine components. Both experimental and theoretical investigations are highly welcome.

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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