Special Issue

Friction–Vibration Interactions

Message from the Guest Editors

The study of friction–vibration interactions is crucial to understanding the vibration behavior of various mechanical components and systems. It explores the intricate relationship between friction and vibration, shedding light on the underlying mechanisms implicated and their effects on the performance and reliability of key components in mechanical systems. This Special Issue, entitled "Friction–Vibration Interactions," focuses on employing theoretical and experimental methods in order to reveal the coupling interaction between the interface mechanics of tribo-components in mechanical systems, such as lubrication, asperity contact, interfacial deformation, temperature rise, and the vibration behaviors of tribo-components and mechanical systems. This Special Issue encompasses both numerical and experimental studies, aiming to provide a comprehensive exploration of the subject matter. Researchers and engineers from diverse backgrounds have contributed their expertise to this Special Issue,

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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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