Special Issue

Machine Design and Tribology

Message from the Guest Editors

Machine design and tribology are closely related disciplines that significantly impact the performance, efficiency, durability, and service life of mechanical systems, as well as their environmental sustainability, material resource management, and, ultimately, the global economy. The operation of machine elements is directly influenced by the development and optimization of their design based on tribological criteria. This Special Issue invites contributions presenting results from mathematical modeling, numerical simulations, and experimental research in the tribology of machine elements and systems. We aim to highlight advances in the tribological analysis of machine elements made from new materials and the application of emerging manufacturing technologies, such as additive manufacturing. Additionally, studies utilizing artificial intelligence, machine learning, and neural networks for failure prediction and optimization are highly encouraged.

Guest Editors

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Deadline for manuscript submissions

30 November 2025

Lubricants

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 4.5

mdpi.com/si/236621

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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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