Special Issue

Tribological Properties of Thin Films and Materials

Message from the Guest Editor

Society today is facing the reality of energy loss and energy shortages. Friction phenomena are considered to constitute the principal cause of wear failure and energy consumption. In the field of tribology, the quest for ultra-low friction is a persistent goal of researchers. To accomplish this goal, it is necessary to explore the origin of friction, which has long been an object of study. In the last five years, research topics and projects around superlubrication have been very fruitful. On the one hand, different material systems have been explored and utilized by researchers. Conversely, the theoretical knowledge derived from tribology has been continuously improved. With the advancement of technology, material characterization methods and computer simulations, tribologists are focusing more on micro-level mechanisms. While the translation of the experimental results is still a problem, it is estimated that the results of these studies on tribology, if applied in practice, will have a very significant economic impact in the future offer huge potential for energy savings.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2024)

Lubricants

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 4.5

mdpi.com/si/193483

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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.*

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