

Special Issue

Tribological Impacts of Sustainable Fuels in Mobility Systems

Message from the Guest Editor

The global shift towards low-carbon and renewable fuels is instigating a significant change in the transportation industry, presenting new opportunities and challenges in tribology. While alternative fuels such as biodiesel (FAME), hydrotreated vegetable oils (HVOs), bioethanol, and sustainable aviation fuels (SAF) provide feasible replacements for fossil fuels, they frequently exhibit lower lubricity and modified chemical properties. Moreover, next-generation fuels, such as hydrogen, ammonia, and synthetic e-fuels, present distinct tribological issues, including water-induced emulsification, corrosion, and intricate interactions with lubricants and engine surfaces.

Guest Editor

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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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