Special Issue

Gear Tribology

Message from the Guest Editor

Gears are unquestionably crucial parts in a mechanical system. A well-functioning gear is directly dependent on the quality of its lubrication, and its lifetime is dependent on the friction- and wear dynamics in the system. To be able to optimize the performance of a gear and its lifetime, an understanding of the tribological mechanisms in the system is vital. Due to the inherent multidisciplinarity of tribology, with intersecting areas such as rheology, fluid and solid mechanics, contact mechanics, material sciences, and chemistry, the complexity of lubrication, friction and wear dynamics in gears is highly prominent. The current Special Issue is devoted to the latest developments and findings in the versatile area of gear tribology. This Special Issue cover both the functionality of gears by means of the tribology aspects, and the modelling of issues related to gear performance such as lubrication and wear. Potential topics include, but are not limited to:

- Gears
- Gearboxes
- Friction
- Lubrication
- Wear
- Modelling
- Experiments

Guest Editor

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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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