Special Issue

Condition Monitoring of Lubricating Oils

Message from the Guest Editor

Used lubricant analysis plays a pivotal role in the condition monitoring of oil- and grease-lubricated machinery. By assessing degradation, contamination, and wear signatures in service, lubricant analysis provides valuable data to support predictive and proactive maintenance strategies. This Special Issue of *Lubricants* seeks contributions focusing on innovative research and industrial applications of used lubricant analysis. We encourage submissions on sensor-based techniques, such as capacitive, acoustic, and optical sensing, for real-time oil condition assessment. Papers detailing spectrometric and ferrographic analysis for monitoring wear metals, contaminants, and additive depletion are also welcome.

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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