

# Special Issue

## Sustainable and Advanced Lubrication Strategies for Industrial and Environmental Applications

### Message from the Guest Editors

Sustainable and advanced lubrication strategies are becoming increasingly crucial in modern industry and environmental protection. With the growing demands for efficiency, environmental friendliness, and economic feasibility, both modern industry and environmental protection are facing unprecedented opportunities and challenges. The application of lubricants spans multiple industries, each with its unique working conditions and application requirements. This makes formulating and managing lubrication strategies extremely challenging, from initial selection to ongoing management. This Special Issue is dedicated to sharing the latest research progress in sustainable and advanced lubrication strategies for industrial and environmental applications. It aims to present the most up-to-date research advancements in this field, covering the following aspects:

- (1) Novel lubricants, including additives, synthetic base stocks, formulation processes, etc.
- (2) Innovative lubrication technologies, such as surface modifications, and hybrid lubrication methods, among others.
- (3) Advanced monitoring technologies, encompassing sensor technology, data analysis, machine learning algorithms, and others.

### Guest Editors

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## Lubricants

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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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### Editor-in-Chief

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