

# Special Issue

## Recent Advances in Automotive Powertrain Lubrication

### Message from the Guest Editors

The individual passenger car is still dominant for passenger transport, as are medium and heavy commercial vehicles in logistics. In addition, there is still a strong reliance on internal combustion engines (ICEs) fueled by fossil-based gasoline or diesel, although a shift to electrification is currently taking place in the automobile market. On the other hand, increasingly stringent legal requirements demand stricter emission limits, binding targets for CO<sub>2</sub> emission with new and more reliable emission testing under real driving conditions, and improved fuel economy. These facts are highly important driving factors for scientific efforts to develop improved mobility concepts with a special focus on elevated environmental friendliness. Strategies to achieve these goals are manifold. Given these general conditions, the parameter of suitable component lubrication is a key factor in the development of future automotive powertrains. Thus, this Special Issue aims to give an insight into the recent trends and research directions in the field of automotive lubrication. All state-of-the-art contributions are

### Guest Editors

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### Deadline for manuscript submissions

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## Lubricants

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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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