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Tribology in Vehicles

Guest Editors:

Prof. Dr. Shuwen Wang

Prof. Dr. John Williams

Prof. Dr. David Charles Barton

Dr. Chunxing Gu

Deadline for manuscript submissions:
closed (31 October 2025)

Message from the Guest Editors

Dear Colleagues,

As a discipline, tribology has by now spread across the whole world and is becoming ever more critical as vehicles of all classes are required to be faster, quieter and more efficient. To meet the continuous increase in the severity of government regulations, new road vehicles are required to have better performance in terms of energy-saving attributes, pollution, NVH (noise, vibration and harshness) and mechanical efficiency. Definitely hybrid vehicles (HEVs) and pure electric vehicles (EVs) will become dominate in the future. It remains the case, however, that by 2040 vehicles equipped with internal combustion engines may well account for a significant proportion of the global annual sales of passenger and commercial vehicles, necessitating further work on the efficiencies of IC engines in the present. Combustion engines that burning hydrogen may well find applications in off-road, heavy-duty or agricultural vehicles. Therefore, new tribological problems associated with these combustion engines must be solved.

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Editor-in-Chief

Prof. Dr. Homer Rahnejat
School of Engineering, University of Lancahire, Preston PR1 2HE, UK

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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Lubricants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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