Special Issue

Tribology of Friction Brakes

Message from the Guest Editor

This Special Issue, entitled “Tribology of Friction Brakes”, aims to highlight recent research and findings regarding the tribological behavior of friction brakes, providing insights into the mechanisms implicated in friction and wear, material innovations, holistic development and the investigation of brake systems. We also welcome the submission of papers that perform validation by considering the impact of braking conditions on the overall performance of the system. The scope of this Special Issue includes, but is not limited to, the following topics:

- Friction and wear mechanisms,
- The development of novel friction materials, surfaces and coatings,
- Thermal management and heat distribution,
- Noise, vibration, and harshness (NVH),
- Particulate emissions,
- Operation conditions, load collectives, control strategy,
- Monitoring and predictive maintenance,
- Advanced modeling and simulation,
- Testing and validation,
- Friction brakes in electrified drivetrains as part of CPS.

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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