



Advances in Bearing Lubrication and Thermodynamics 2023

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Message from the Guest Editors

Dear Colleagues,

Bearings are currently the most widely used mechanical components. In the process of high-speed and heavy load operation, friction and heat generation between rolling elements, cages, and rings increase. At this time, lubrication technology is integral to reducing bearing friction and wear, strengthening bearing heat dissipation, and extending bearing life.

In the last century, important research on various aspects of bearing thermal analysis and corresponding lubrication technology has been extensive. However, as bearing speeds continue to increase, complex operation conditions pose more challenges to bearing thermal analysis. At the same time, the continuous cross-fusion of materials, sensors, big data, and emerging technologies has enabled the continuous expansion of bearing lubrication technology.

The current Special Issue is aimed at the latest developments centred around bearing thermal mechanisms and lubrication technology, as well as the effect of bearing working parameters on lubrication performance and thermal behavior.

