Special Issue

Friction and Lubrication Properties of Drive Train Equipment

Message from the Guest Editor

The important ways to improve the working performance and service life of the transmission system are to develop new antifriction and wear-resistant materials, develop high-performance lubricants with a wide temperature range, put forward efficient and reliable friction and wear prediction methods and control technologies, and improve the active design theory and method of key basic components in tribology. Advanced testing technologies and evaluation methods for tribological performance of material level, component level, and complete machine will contribute to the quantitative evaluation of friction and wear of transmission systems and ensure the safe and reliable operation of high-end equipment. AI tribology, friction dynamics coupling problems, and multidisciplinary solutions including tribology are attracting more and more interest in the research community.

In this Special Issue, we invite contributors to discuss cutting-edge research and the latest progress in the field of tribology of high-end equipment transmission systems. Both theoretical and experimental studies are welcome, as well as comprehensive review and survey papers.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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