Special Issue

Research on Tribology and Surface Engineering

Message from the Guest Editors

Dramatically rising energy costs push forward energy-saving technologies. It is well known from Professor Peter Jost's report and confirmed by many studies that solutions to tribological problems can reduce energy loss and improve machinery performance. Unfortunately, despite the enormous scientific attempts to reduce friction and wear, friction consumes about 1/3 of the world's primary energy, and wear causes about 80% of machine parts to fail. On top of that, environmental legislation has restricted the usage of many high-performance lubricants and their additives. This Special Issue aims to review state-of-the-art tribological studies and present new outstanding results contributing to reducing friction and wear. Topics include but are not limited to high-performance, eco-friendly lubricants and additives; wear-resistant and low-friction-possessing coatings; surface micro-texturing; and novel friction materials. We sincerely hope that contributions to this Special Issue will push forward novel friction and wear reduction solutions to be implemented in the industry.

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Message from the Editor-in-Chief

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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