Special Issue

Emission and Transport of Wear Particles

Message from the Guest Editors

The generation, emission, and transport of wear particles are complex processes involving various interrelated mechanical, thermal, electrical, and chemical phenomena. Their investigation requires a systematic approach based on the application of different techniques and principles of tribology, mechanics, heat and mass transfer, aerosol science, electromagnetism, chemistry, etc. Studies focusing on the reduction of wear particle emissions as well as those investigating the underlying mechanisms are of great practical and scientific interest as the implementation of the results obtained in these studies may potentially contribute to achieving global sustainable development goals. This Special Issue aims to promote advances in wear particle generation and emissions. The scope includes topics related to the generation, emission, and transport of wear particles from different sources, including the tribological aspects of particle formation, quantitative and qualitative assessments of particle emissions, and chemicophysical particle characterisation using various measurement techniques and instrumentation.

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Deadline for manuscript submissions

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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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