



Emission and Transport of Wear Particles

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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 chemico-physical particle characterisation using various measurement techniques and instrumentation.

