Special Issue

Brake Wear Particle Emissions: Formation, Transport, Sampling and Prevention

Message from the Guest Editors

Traffic-related emissions are associated with adverse effects on the environment and human health. As the tailpipe has been the biggest contributor to the overall emission level, regulations have been put in place over the past decades to limit the emissions from this source. Consequently, other sources of emissions, such as those from the friction brakes, which belong to the group of non-exhaust emissions, have become the focus of scientific research. This Special Issue aims to promote progress in the field of brake wear particle emissions, which is set to become the focus of scientific research in the future due to new emission standards. Topics covered include the tribological aspects of particle formation, airborne particle transportation, sampling, and emission prevention. New findings relating to the measurement and characterization of particles are also welcome. Studies of an experimental, simulated, or mixed nature on various scales are generally appropriate.

Guest Editors

Dr. David Hesse

Dr. Sebastian Gramstat

Dr. Frank Schiefer

Dr. Valentin Ivanov

Deadline for manuscript submissions

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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