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Road Dust in Urban and Industrial Environments: Sources, Pollutants, Impacts, and Management

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Deadline for manuscript submissions:
closed (19 November 2021)

Message from the Guest Editors

Resuspended road dust is one of the most important sources of coarse, fine, and ultrafine particles in the atmosphere. In turn, the chemical composition of road dust is determined by the impact of a wide range of anthropogenic sources. In many cities and towns, there is a significant lack of knowledge of the composition of road dust and its individual size fractions, dust loadings, and the effect of the anthropogenic impact intensity on the degree of road dust pollution, as well as its potential risks to public health and ecosystems.

We invite authors to submit original and review articles that describe field, experimental, and modelling studies related to detailed analyses of road dust and its various size fractions as a major source of air pollution. Priority attention will be paid to modern techniques, approaches, and methods for assessing the contribution of various sources to the chemical composition of road dust size fractions (source apportionment) and the assessment of public health and ecological risks, as well as other related issues of air pollution by particulate matter, including nanoparticles and microplastics.

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Special Issue

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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!

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