Special Issue

Road Emission: Recent Trends, Current Progress and Future Direction

Message from the Guest Editors

Road traffic and road infrastructure represent a linear source of environmental pollution. The most serious problem is air contamination with pollutants and noise emissions. The damage to human health caused by PM emissions from road traffic can be disproportionately large compared to other sources of PM emissions, because the highest emission levels tend to be located in areas with the highest population density, leading to high levels of exposure. The share of PM emissions from non-exhaust sources has increased in recent years due to a significant reduction in the amount of PM from exhaust emissions. Non-exhaust emissions are expected to be responsible for the vast majority of PM emissions from road traffic in the coming years. Therefore, it is advisable to know more about this problem, i.e. which pollutants are the critical ones, how high the concentrations of pollutants are, to what extent can they be harmful to humans, and which sources of air pollution are potential causes of harmful substances. Subsequently, based on a closer knowledge of the state and origin of air pollution, we can establish measures to improve air quality.

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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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