

Special Issue

Recent Advances in Mobile Source Emissions (2nd Edition)

Message from the Guest Editor

Mobile source emissions, especially vehicle emissions, significantly contribute to urban atmospheric pollution. With the rapid growth of the economy, the number of vehicles being manufactured is rapidly increasing. Mobile sources emit large amounts of VOC, NO_x and PM, which are major precursors to ozone and secondary organic aerosols (SOA). Therefore, the effective monitoring and control of mobile source emissions remains a serious challenge. In recent decades, various emission measurement technologies have been used to record vehicle emissions, helping us to better understand these emissions in real-world scenarios. Equally, more detailed information about mobile source activity can be obtained using various monitoring approaches. Developing a mobile source emission inventory with a high spatial-temporal resolution has become a popular research topic. This Special Issue aims to present the most recent advances in the factors and inventories of vehicle and off-road mobile source emissions. This Special Issue covers emission factors from different measurement technologies, the activity approach of mobile sources, and the emission inventory development method.

Guest Editor

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About the Journal

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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