



Recent Advances in Mobile Source Emissions

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Deadline for manuscript
submissions:

closed (22 September 2023)

Message from the Guest Editor

With the rapid growth of the economy, the number of mobile sources is also rapidly increasing. Mobile sources emit a large amount of VOC, NO_x and PM, which are major precursors to ozone and secondary organic aerosols (SOA). Therefore, mobile source emissions, especially vehicle emissions, are an important contributor to urban atmospheric pollution. Therefore, how to effectively monitor and control mobile source emission remains a serious challenge.

In recent decades, various emission measurement technologies have been applied to mobile sources, helping us to better understand these emissions in real-world scenarios. In the meantime, more detailed information about mobile source activity can be obtained by various monitoring approaches. Developing a mobile source emission inventory with a high spatial-temporal resolution has become a popular research topic.

Our aim is to provide recent advances in the factors and inventory of on-road and off-road mobile source emissions. The scope covers emission factors from different measurement technologies, the activity approach of mobile sources, emission inventory development method and policy and recommendations.





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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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