

Special Issue

Recent Advances in Mobile Source Emissions

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.

Guest Editor

Dr. Mingliang Fu

Vehicle Emission Control Center of Ministry of Ecology and Environment, Chinese Research Academy of Environmental Sciences, Beijing 100012, China

Deadline for manuscript submissions

closed (22 September 2023)



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/137074

Atmosphere
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)





Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)



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

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))