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Insights into Volatile Organic Compounds in the Atmosphere: Component Characteristics, Source Apportionment and Environmental Implications

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2022)

Message from the Guest Editor

Dear Colleagues,

Volatile organic compounds (VOCs), which are primary precursors of both photochemical ozone (O_3) and secondary organic aerosol (SOA) play important roles in formation of ground-level air pollution. Due to the emissions of VOCs which are responsible for secondary pollution formation and a hazard to human health, more and more attentions have been gained on them and many studies on the component characteristics, emission sources, health risks and emission control throughout different regions of the world.

In view of above, the Journal Atmosphere dedicates this special issue to showcase the most recent findings on the VOC studies. This SI is open for submissions of original research studies, review, and perspective articles. Laboratory investigation, fields observation, and modelling studies are all highly welcome. The topics of interest include but are not limited to the following:

- VOC sampling techniques
- VOC emission inventories
- VOC component characteristics and sources
- VOC removal kinetics and mechanism
- Secondary pollution formation potentials
- Air quality management & policy

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Special Issue

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Editor-in-Chief

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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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