



Measurement and Application of Isotopes and Organic Tracers in Atmosphere

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Message from the Guest Editors

Organic tracers and isotopes are powerful tools for investigating sources, atmospheric processing, and the budget of atmospheric pollutants and greenhouse gases. The measurements of specific tracers and isotopes can significantly improve our understanding of the environmental and climatic effects from anthropogenic activities and thus will provide fundamental scientific supports for the mitigation strategies of air quality.

In view of the above, this Special Issue aims to collect the latest original research and review papers on the studies of atmospheric pollutants and greenhouse gases. The topics of interest include, but are not limited to, the following:

- analysis techniques of isotopes and organic tracers in atmosphere
- source apportionment and atmospheric processing of air pollutants and greenhouse gases using the measurements of isotopes and source-specific tracers
- characteristics of isotopes and organic tracers in emission sources (e.g., biomass burning, industry emission and vehicular exhaust)
- identification of oxidation paths and aging processes for key air pollutants (e.g., sulfate, nitrate, primary and secondary organic aerosols).





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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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