

Special Issue

High-Resolution Measurements of Atmospheric Pollutants, Pushing the Limit of Temporal and Spatial Resolution

Message from the Guest Editors

High-resolution data is essential for confining emission inventories and reanalysis products of models to more accurate values. Measurement methods include but are not limited to: ground-based *in situ* + measurement stations and mobile platforms, aircraft and balloon measurements, and remote sensing. Given a temporal scale, measurements of atmospheric pollutants could cover a variety of environments with different spatial scales, such as urban areas, industrial regions, regions with wildfire risk, regions with dense population and biased air pollution exposure, and remote areas. This special issue invites submissions of original research papers on the measurement of atmospheric pollutants, including but not limited to the following topics:

- Long-term measurements of atmospheric pollutants
- Atmospheric pollutants measurements on a regional or global scale
- In situ and remote sensing observations of atmospheric pollutants (long-lived and short-lived)
- Field-campaign measurements of atmospheric pollutants
- Development of lower-cost sensors with reasonable accuracy
- Air pollution meteorology and modelling
- Air pollution emission control measures and policies

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Deadline for manuscript submissions

closed (25 April 2022)



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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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