

## Special Issue

# Advances in Urban Air Pollution Observation and Simulation

### Message from the Guest Editor

This Special Issue of *Atmosphere* is dedicated to collecting and disseminating research results focused on the topics described above among scientists working in all aspects of urban air pollution measurements and modeling, as well as those involved in air quality management. Original results, review papers, and model studies related to the following aspects are all welcome contributions:

- Physical aspects of the dispersion of air pollutants in the urban boundary layer;
- Emission source estimation based on bottom-up inventories;
- Top-down methods of emission assessment;
- Source apportionment based on statistical methods (principal component analysis, positive matrix factorization);
- Application of different tracers and proxies for identification of emission source spatiotemporal patterns for different regions;
- Case studies related to the application of crowdsourcing applications;
- Urban air pollution modeling with classical and machine learning methods.

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### Guest Editor

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### Deadline for manuscript submissions

closed (19 January 2024)



## Atmosphere

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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!

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### Editor-in-Chief

Dr. Daniele Contini

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