Special Issue

Interaction between Air Pollution and Urban Boundary Layer

Message from the Guest Editors

Air pollution, one of the major environmental challenges, is a global concern of the public, government and scientific community. On the other hand, atmospheric boundary layer is the lowest level of atmosphere, where humans live and have direct contacts with various kinds of emission sources (e.g. vehicles, industry, and biomass burning). Stagnant meteorological conditions within an urban boundary layer could further promote the formation of severe air pollution through both chemical and physical processing of emitted gaseous precursors. Thus, understanding the interaction between air pollution and urban boundary layer is of great importance. This special issue aims to present original research focused on air pollution and urban boundary layer. Relevant topics include, but are not limited to:

- Chemical and physical processes of air pollutants (including gaseous pollutants and aerosol particles) within urban boundary layer.
- Urban boundary layer structure and microclimate, and its further influence on air pollution.
- Feedbacks between air pollution and urban boundary layer.

Guest Editors

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Deadline for manuscript submissions

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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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