

Special Issue

Tropospheric Aerosols: Observation, Modeling, and Assimilation

Message from the Guest Editor

Aerosols are characterized by their production processes and chemical composition. They are considered an important source of particulate matter for the atmosphere. Therefore, they have a direct impact on earth radiation, clouds, climate, human health, agriculture, ecological systems, air quality, and aviation. A better knowledge of the spatial and temporal distribution of aerosols at global and regional scales is essential for our understanding of their influence on the atmosphere. The improvement of observational techniques has offered new opportunities to highlight the role of aerosols in the global atmospheric system. The aims of this Special Issue:

- Present the recent advances concerning the characterization, transport, and chemical composition of the aerosol particles in the troposphere.
- Highlight the new findings of aerosols using observational techniques, modeling, and assimilation.
- Evaluate the impact of different types of aerosols on the atmospheric chemistry
- Assess the role of the long-range transport on the tropospheric aerosol distribution including global pollution and the local air quality.

Guest Editor

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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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