Special Issue

Observation and Properties of Atmospheric Aerosol

Message from the Guest Editors

Atmospheric aerosol microphysical, microchemical, and optical properties are the core characteristics for understanding their role in assessing air pollution, radiative forcing, and health impacts. For this purpose, we are pleased to announce a Special Issue with a focus on atmospheric aerosol. The following areas are of interest, but are not limited to them:

- Observations and properties of atmospheric aerosol via long-term monitoring and campaign measurements;
- Aerosol microphysical properties, chemical composition, aerosol typing, and source apportionment;
- On-line measurements and off-line aerosol single-particle or bulk chemical analysis;
- Aerosol morphology, ageing, and effects on optical properties, radiative forcing, climate models, and human health;
- In situ, remote sensing, and off-line laboratory analyses of aerosol properties, as well as their synergy and the intercomparison of methods;
- Air quality monitoring and studies via fixed or mobile stations;
- Chamber studies of aerosol properties;
- Machine learning techniques for atmospheric aerosol property classification and typing.

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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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