

## Special Issue

# Atmospheric Organic Aerosols: Source, Formation and Light Absorption

### Message from the Guest Editors

Topics of interest for the Special Issue include, but are not limited to

- Sources of organic aerosols: Investigating the contributions of anthropogenic emissions.
- Formation mechanisms of organic aerosols: Understanding the chemical and physical processes involved in the formation of secondary organic aerosols (SOA) from precursor gases in the atmosphere.
- Chemical and physical properties: Characterizing the composition, size distribution, hygroscopicity, and volatility of organic aerosols to better understand their behavior and interactions with other aerosol components.
- Light absorption by organic aerosols: Quantifying the optical properties of organic aerosols and their contributions to radiative forcing, both regionally and globally.
- Impacts on air quality and climate: Assessing the effects of organic aerosols on air pollution, visibility, cloud formation, and climate change, and developing strategies for its mitigation and management.

We look forward to your valuable contributions as we strive to deepen our knowledge and promote a comprehensive understanding of atmospheric organic aerosols.

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### Guest Editors

Dr. Xiaotong Jiang

Dr. Siyuan Li

Dr. Yinxiao Zhang

Dr. Marco Paglione

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### Deadline for manuscript submissions

closed (20 April 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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