

Special Issue

Dynamics of Aerosol Distribution and Transport

Message from the Guest Editors

We invite submissions for an upcoming Special Issue, titled *"Dynamics of Aerosol Distribution and Transport"*, which will address complexities of aerosol behavior in the atmosphere, encompassing their formation, transformation, and movement across various spatial and temporal scales. Key contributions may include the following:

- Mechanisms of aerosol formation and evolution, including new particle formation, growth and removal processes that impact aerosol size distributions, chemical composition, and phase.
- Aerosol transport processes with an emphasis on how meteorological conditions impact particle dispersal and life time.
- Vertical aerosol distributions, including their influences on radiation and cloud microphysical properties.
- Aerosol delivery within the human respiratory system, including the roles of particle size, deposition, and hygroscopicity in pathogen transmission, as well as indoor–outdoor aerosol dynamics influenced by airflow and environmental conditions.
- New approaches including ML/AI to improve model simulations.

Guest Editors

Dr. Tamanna Subba

Dr. Robert L. McGraw

Dr. Yan Feng

Dr. Mukunda Gogoi

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

Dr. Daniele Contini

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