Special Issue

Emissions, Transport and Fate of Pollutants in the Atmosphere

Message from the Guest Editor

Air pollutants (including chemicals, pathogens, allergens, and toxics) go through many dynamical, physical, and chemical processes from emissions to deposition. Aerosols and gasses are released from various sources to the atmosphere, where they interact with the planetary boundary layer, radiation, and clouds. The transport and dispersion of pollutants may occur at various spatial and temporal scales before they are deposited back on land or water. This Special Issue is devoted to research that aims to improve our understanding of physical mechanisms controlling emissions, transport, and deposition of airborne pollutants, chemicals, pathogens, allergens, or toxics. We are especially interested in original research articles addressing the multiscale and multiphysics nature of these mechanisms. All theoretical, modeling, and observational studies are welcome. Some topics of interest include, but are not limited to:

- Air-surface exchange of pollutants
- Emissions due to atmosphere and land/water interactions
- Pollutants pathways in the atmosphere
- Long-range transport
- Wet/dry deposition processes

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2020)

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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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