

Special Issue

Air Quality in the Indian Subcontinent: Emissions, Monitoring, and Modeling

Message from the Guest Editors

Air pollution is the leading cause of ill health. The Indian subcontinent is experiencing rapid economic growth and urbanization with particulate matter pollution exceeding the World Health Organization's guidelines for healthy air. Knowledge of ozone and PM

concentrations requires information about local and distant sources. Furthermore, types and quantities of different precursor sources need to be understood to explore the emission mitigation. This Special Issue invites original research studies, reviews, and perspective articles that aim to assess air pollution at local to regional levels over the Indian subcontinent using laboratory experiments, field measurements, remote sensing, and modeling aspects. Subject areas may include, but are not limited to, the following:

- Observations and modeling of air pollutants;
- Physical and chemical characterization of air pollutants;
- Impact of meteorology and emission reduction at local to regional scales;
- Source apportionment of aerosols and ozone, their trends, and long-range transport;
- Impacts on human health, crop yields, and economic burden.

Guest Editors

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Deadline for manuscript submissions

closed (15 November 2022)



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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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