



## Ozone Pollution: Modeling, Observations, and Impacts

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### Message from the Guest Editors

Dear Colleagues,

In the atmosphere, there exist many “criteria air pollutants” (e.g., ozone, PM<sub>2.5</sub>), which are harmful to the health of human beings and the environment under a high-concentration condition. Among them, ozone is a unique trace gas in the atmosphere. Unlike the role it has in the stratosphere protecting the biosphere of the earth, ozone in the troposphere is a kind of pollutant, which directly endangers the ecological environment and human health.

Although there exist many studies on ozone pollution, it was found in previous model studies that the simulation results frequently deviate from observations, which might be caused by: (i) an incomplete description of the ozone chemistry by chemical mechanisms; (ii) uncertainties in emission inventories; (iii) inaccurate treatment of the interaction between ozone and other atmospheric constituents such as PM<sub>2.5</sub>; and (iv) the influence of complex terrain and underlying surface properties.

Original papers (including review articles) investigating ozone pollution on the topics discussed above are welcome for this Special Issue.

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*Guest Editors*





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## Editor-in-Chief

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## 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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