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Source and Transport of Ozone

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Deadline for manuscript submissions:
closed (10 July 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue, Source and Transport of Ozone, solicits papers in the areas of:

1) Sources of background ozone production (both natural and anthropogenic), such as fossil fuel emissions from both regional and global regions, lightning, convection, biomass burning, wildfires, and stratosphere to-troposphere transport episodes.

2) Enhancement of ozone concentrations through photochemical reactions, primarily from precursor emissions of nitrogen oxides and non-methane reactive organic gases within the polluted atmospheric boundary layer.

3) Ozone source and transport and detrimental effects on agriculture, vegetation, and terrestrial ecosystems.

4) Long-range-transported background ozone and its influence on surface ozone.

5) Meteorological impact on ozone transport and their interactions.

6) Change in ozone transport pathways and characteristics associated with climate change, as well as global and regional ozone trend analysis.

Dr. Sen Chiao
Dr. Ju-Mee Ryoo
Guest Editors

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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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