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Ammonia in a Changing Atmosphere

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Deadline for manuscript submissions:
closed (23 May 2022)

Message from the Guest Editors

Dear Colleagues,

Ammonia is the predominant basic gas in the atmosphere. It is also a major component of total reactive nitrogen. Ammonia emissions may even be substantially higher in the future due to increased agriculture activities and biomass burning caused by a growing world population and changing climate. These trends point to ammonia potentially playing an increasingly important role in atmospheric chemistry. In this Special Issue, we invite researchers to submit original research manuscripts on a broad range of laboratory, ambient (field and satellite measurements), and theoretical (fundamental chemistry and atmospheric modeling) studies related to the sources and distributions of ammonia in the atmosphere and how ammonia affects the formation and evolution of aerosols, climate properties and toxicity of aerosols, and nitrogen deposition. Manuscripts addressing topics which will be of interest to a broad audience are encouraged, but more focused studies are also welcomed.

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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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