

Special Issue

Atmospheric Reactive Nitrogen: Recent Trends, Current Progress and Future Directions

Message from the Guest Editors

There are still puzzles in atmospheric reactive nitrogen, e.g., 1) the sources of HONO and its role in atmospheric oxidizing capacity; 2) detection of NO₃ radical and quantification of its atmospheric impacts; 3) the heterogeneous uptake of N₂O₅ and the formation of aerosol nitrate and chlorine nitrite; 4) long-term trends of NO_x and NH₃ and related consequences on air quality, including the levels of aerosol and ozone; 5) source apportionment of organic-nitrogen-containing components such as nitro-aromatic compounds and amines, etc. In addition, the changes in regional or global reactive nitrogen levels caused by the COVID-19 lockdown and the following impacts should also be quantified. The goal of this Special Issue is to collect recent findings related to reactive nitrogen chemistry such as their sources, sinks, chemical processes and atmospheric impacts. These findings could take the form of field, laboratory or modeling studies. Please note that this Special Issue is not limited to the above topics.

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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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