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Urban and Regional Nitrogen Cycle and Risk Management

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Deadline for manuscript submissions:
closed (14 June 2024)

Message from the Guest Editors

Dear Colleagues,

The 'nitrogen cascade' effect induced by nitrogen cycle disruption has been regonized as the third most important global environmental problem after biodiversity loss and global warming. Based on most city-scale case studies, residental livelihood is supposed to be the main source of reactive nitrogen releases induced by a disrupted nitrogen cycle.

Possible actions to reduce reactive nitrogen being released to the environment include proper nitrogen management within the production and consumption cycles of essencial resources. The experimental approaches and modeling techniques can help the research in this respect. Different study methods can be adopted to address this Special Issue, depending on the scale of the urban and regional nitrogen cycles.

Authors are welcome to submit their contributions concerning the analysis of sources, sinks and flows of nitrogen cycles and relevant risk management towards SDGs. Field and modeling studies concerning the nitrogen pollution and driving factors, as well as the relaionships between nitrogen cycle and other cycles of water, carbon, phosphorus, sulphur, etc., are also encouraged.

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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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