



## Gaseous Emissions of Reactive Nitrogen from Beef and Dairy Cattle Production

Guest Editor:

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Deadline for manuscript  
submissions:  
**closed (20 August 2020)**

### Message from the Guest Editor

Emissions of gaseous reactive nitrogen (N) compounds from cattle production impact air and water quality and soil fertility and contribute to greenhouse gases in the atmosphere. Reactive N compounds of interest are ammonia (NH<sub>3</sub>), nitrous oxide (N<sub>2</sub>O), and other oxides of N. Sources of gaseous reactive N include manure and waste water in cattle production facilities, pastures, and land that receives manure applications. Researchers are invited to contribute original research articles or review articles that focus on diverse aspects of gaseous emissions of reactive N compounds from beef and dairy production, including but not limited to:

- Scale of reactive N emissions from cattle production facilities;
- Seasonality or patterns of reactive N emissions;
- Strategies to mitigate reactive N emissions from cattle production;
- Elucidation of microbiological processes in nitrification/denitrification;
- Impacts of reactive N on off-site environments;
- Application and evaluation of predictive models;
- New or novel approaches or methods to quantify reactive N emissions;
- Reviews of reactive N emissions from cattle production.





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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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