

Special Issue

Observations and Management of Livestock Production Emissions

Message from the Guest Editors

Contemporary husbandry systems are associated with considerable emissions of greenhouse gases and aerosols as well as extensive nitrogen losses to the environment. By that, they contribute essentially to climate change, air pollution and changes in plant coverage. Conversely, livestock farming is also considerably affected by the changing climate. Balancing the trade-offs between environmental, animal and human health requires detailed observations of emissions and co-variables or co-factors to shape the emission dynamics.

This special issue invites contributions on strategies and approaches to monitor and/or predict emissions of greenhouse gases, ammonia, bioaerosols or other air pollutants. The contributions related to measurement and/or prediction of co-variable / co-factors for emission modelling, such as indoor climate, feed composition, intake and digestibility, microbiological activity, heat stress, etc., are also very welcome. Studies that address the interrelation between pollutant emissions from livestock husbandry and animal health and welfare or that assess emission mitigation strategies are of particular interests.

Guest Editors

Dr. David Janke

Dr. Sabrina Hempel

Prof. Dr. Chaoyuan Wang

Deadline for manuscript submissions

closed (28 April 2023)



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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

Dr. Daniele Contini

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