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Observations and Management of Livestock Production Emissions

Guest Editors:

Dr. David Janke
Department Engineering for Livestock Management, Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Max-Eyth-Allee 100, 14469 Potsdam, Germany

Dr. Sabrina Hempel
Department Engineering for Livestock Management, Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Max-Eyth-Allee 100, 14469 Potsdam, Germany

Prof. Dr. Chaoyuan Wang
Department of Agricultural Structure and Bioenvironmental Engineering, College of Water Resources and Civil Engineering, China Agricultural University, Beijing 100083, China

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.

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Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/atmosphere
atmosphere@mdpi.com
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