

Special Issue

Advances in Greenhouse Gas Emissions from Agroecosystems

Message from the Guest Editors

We are pleased to announce a Special Issue titled “**Greenhouse Gas Emissions from Agroecosystems**”, to be published in the open-access journal *Atmosphere* in 2025. This Issue aims to advance the scientific understanding of GHG emissions from agricultural systems and support the development of the best management practices (BMPs) that can minimize emissions while maintaining agricultural productivity. Topics of interest include but are not limited to the following:

- Effects of agricultural management practices (e.g., fertilization, tillage, crop rotation, irrigation/drainage, animal/green manure, biochar, etc.) on GHG emissions;
- Laboratory or field studies on GHG emissions from soil freeze–thaw cycles;
- Meta-analyses of mitigation strategies for GHG reduction;
- Development of techniques in measurement and estimation of GHG emissions;
- Reduction in GHG emissions from the enteric fermentation and livestock systems;
- Model-based approaches for estimating GHG emissions at regional or global scales;
- Cost–benefit analysis of GHG mitigation strategies in agriculture.

Guest Editors

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Deadline for manuscript submissions

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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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