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Greenhouse Gases Emissions: Recent Trends, Current Progress and Future Directions

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Deadline for manuscript submissions:
closed (25 April 2022)

Message from the Guest Editors

In this Special Issue, we aim to publish original research articles, systematic reviews, meta-analysis, field observations and model studies on GHG emissions from various ecosystems, including forests, grasslands, inland waters, etc. Topics of interest to this Special Issue include (but are not limited to):

- Studies focusing on the spatial and temporal dynamics of GHG emissions at regional or global scales;
- Field studies exploring the mechanism and processes of GHGs emissions from natural ecosystems or regions affected by human activities;
- Systematic reviews (i.e., meta-analyses, model simulation and machine learning method) quantifying the significant sources or sinks of GHGs regionally or globally, and their potentially dominant factors, with regard to climate change or anthropogenic disturbances;
- Approaches or optimization strategies to balance the tradeoff between GHG emissions and energy demand and economic development.

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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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