



Greenhouse Gas Emission: Sources, Monitoring and Control

Guest Editors:

Dr. Pengfei Li

College of Science and
Technology, Hebei Agricultural
University, Baoding 071000,
China

Dr. Liqiang Wang

Interdisciplinary Research
Academy (IRA), Zhejiang Shuren
University, Hangzhou 310015,
China

Dr. Jingzhao Lu

College of Science and
Technology, Hebei Agricultural
University, Baoding 071000,
China

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Message from the Guest Editors

The atmospheric greenhouse gas (GHG) burden surges. Emergency actions are required to bring GHG back to a climate-neutral pathway. In recent years, substantial advances have been made toward greenhouse gas monitoring. Particularly, very high spatial, temporal or spectral resolution measurements can fill important observational gaps in the identification and quantification of greenhouse gas emissions.

Regarding anthropogenic sources, such as power plants, coal mines, landfills and other fossil fuel industries, emission reduction measures are facilitated by technical advances at an ever-increasing speed. By comparison, efforts to reduce emissions from biogenic sources, such as wetlands, have received less attention but are becoming more feasible. It should be noted that emerging advances generally fail in sound uncertainty assessments and large-scale applications, which should, thus, be verified in abundant real cases. Moreover, there is no single magic bullet, but promoting a wide array of monitoring, measures and policies for emission reductions could significantly mitigate the global greenhouse gas burden in a cost-effective way and thereby, approach the climate-neutral aim.





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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

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