Special Issue

Novel Techniques for Measuring Greenhouse Gases (2nd Edition)

Message from the Guest Editors

This Special Issue is the second volume of the Special Issue “Novel Techniques for Measuring Greenhouse Gases” published in *Atmosphere* in 2022. Greenhouse gas (GHG) measurement technology is an integral part of achieving the goal of carbon neutrality. In this new era, the scientific community expects and welcomes new monitoring technologies for quantifying carbon dioxide (CO2) and methane (CH4) emissions, and for distinguishing between anthropogenic and natural fluxes. This Special Issue calls for papers regarding the developments and applications of novel GHG measurement techniques, including but not limited to Lidar, FTIR, AirCore, and low-cost miniaturized equipment, etc. We are also keen to see advances in greenhouse gas monitoring methodologies, especially with regard to quantifications of methane emissions, obtaining high-resolution CO2 fluxes with urban scale, measurements of point CO2 sources, and monitoring natural CO2/CH4 fluxes.

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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

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