

## Special Issue

# Carbon Emission and Transport: Measurement and Simulation

### Message from the Guest Editors

Carbon is one of the main elements in both natural and anthropogenic environments. Gaseous carbon (i.e. carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and carbon monoxide (CO)) are known as main greenhouse gases or air pollutants. Hence, the study of their flux (including sources and sinks) or transport (in soil, rivers or atmosphere) from both natural and anthropogenic sources is essential to better understand regional or global carbon cycles. Here, to improve our scientific knowledge of the carbon cycle via both observation and modeling, we are organizing this Special Issue titled “Carbon Emission and Transport: Field Measurement and Model Simulation” in the journal *Atmosphere*. Any papers related to carbon flux and transport (especially for CO<sub>2</sub>, CH<sub>4</sub>, and CO) are warmly welcome to this issue; papers can focus on observations or model simulations, from natural or anthropogenic sources and can be at the field, city, regional, or even global scale, using field observations, model simulations, meta-analyses, or a combination of the above methods. Regions of interest include but are not limited to forests, grassland, rivers, wetlands, waters, and urban areas.

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### Guest Editors

Dr. Cheng Hu

Prof. Dr. Wei Xiao

Dr. Qitao Xiao

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### Deadline for manuscript submissions

closed (20 August 2023)



## Atmosphere

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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!

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### Editor-in-Chief

Dr. Daniele Contini

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