



Carbon Emission and Transport: Measurement and Simulation (2nd Edition)

Guest Editors:

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Deadline for manuscript
submissions:

closed (31 May 2024)

Message from the Guest Editors

Carbon is one of the main elements in both natural and anthropogenic environments. Gaseous carbon elements (i.e., carbon dioxide (CO₂), methane (CH₄), and carbon monoxide (CO)) are known to be main greenhouse gases or air pollutants. Hence, the study of their flux or transport 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 have organized 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 CO₂, CH₄, and CO) are warmly welcome to be submitted in this Special Issue. Papers can also focus on observations or model simulations, from natural or anthropogenic sources, and can be carried out 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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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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