



Carbon Emission and Carbon Neutrality in China

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Message from the Guest Editors

Dear Colleagues,

As the largest CO₂ emitter, China has proposed a “Dual Carbon” target, an aim to achieve its carbon peak by 2030 and carbon neutrality by 2060. Carbon emission reduction and carbon sink enhancement are fundamental pathways for achieving carbon neutrality. Uncovering the patterns, process mechanisms, and evolutionary trends of carbon sources and sinks, as well as their interactive mechanisms with the climate system, is significant for achieving carbon neutrality and sustainable development.

The journal *Atmosphere* is hosting a Special Issue to disseminate the most recent findings related to carbon emissions and carbon neutrality in China. Topics of interest include, but are not limited to, the following:

- Innovative methods of carbon accounting and calculation;
- Spatial–temporal patterns of major carbon sources;
- Spatial–temporal patterns of carbon sinks;
- Regional carbon cycle process;
- CO₂ flux measurement;
- Carbon sink potential assessment.

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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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