



## Emissions from Biomass Energy

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Deadline for manuscript  
submissions:

**closed (24 June 2024)**

### Message from the Guest Editor

The rise in greenhouse gas emissions in the atmosphere has created an urgent need to mitigate climate change, which requires global collaboration. Biomass is widely distributed and offers the potential to provide significant amounts of bioenergy. As CO<sub>2</sub> emissions from bioenergy can be absorbed by plant regrowth through photosynthesis, bioenergy has become an attractive option to mitigate climate change and achieve the goals outlined in the Paris Agreement. Additionally, the utilization of bioenergy has the potential to stimulate local economic development and ensure domestic energy security and diversity. Nevertheless, significant gaps in our understanding of biomass availability, logistics, conversion pathways, carbon emissions, and contributions to sustainable development remain.

In regard to this Special Issue, we are particularly interested in papers (not limited to) that address the following areas: estimation of biomass availability from various sources on both a global and regional scale, optimization of biomass logistics to decrease emissions and costs, identification of the most reliable and efficient methods for assessing carbon emissions from bioenergy.





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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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