

Special Issue

Biogenic Emissions to the Atmosphere

Message from the Guest Editor

Biogenic emissions profoundly shape the composition and reactivity of the atmosphere. A detailed knowledge of the nature of these emissions, their role in atmospheric chemistry, and their interactions with anthropogenic pollutants and processes is essential to a quantitative assessment of ongoing atmospheric change, accurate predictions of future conditions, and mitigation of associated risk. Specific areas of uncertainty where additional research is needed include: (1) development of global, quantitative, spatially resolved emission inventories, including identification of emitted species, their emission rates, and how these vary with space and time; (2) characterization of emission mechanisms and drivers; (3) assessment of long-term trends in emissions and their responses to rapidly changing environmental conditions; (4) investigation of the atmospheric transformations and effects of biogenic emissions; and (5) investigation of the feedbacks between biogenic emissions and climate. Manuscripts that address one or more of these issues are invited for this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2019)



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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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