



Plant-Derived Volatiles and Their Contribution to Secondary Organic Aerosol

Guest Editor:

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Message from the Guest Editor

Sixty years after F.W. Went's paper on blue hazes in the atmosphere, research on the transformation of plant volatiles in the atmosphere, including the formation and aging of SOA, is thriving. The number and mass of emitted compounds are so big that the role plant volatiles play in the global atmosphere mechanisms and climate change may be a counterweight to the role played by anthropogenic emissions.

This Special Issue of *Atmosphere* will review the current state of research on plant volatiles and SOA, as well as highlight frontier research trends in the field. We invite review and research papers on all related topics with particular attention focused on the following:

- Heterogeneous and multiphase transformation of plant volatiles in the atmosphere
- Role of green plant volatiles in SOA formation and aging
- Plant volatiles in urban environments and their influence on the air quality
- Quantitative assessment of SOA from plant volatiles
- Influence of SOA from plant volatiles on human health
- Mitigation of anthropogenic pollution by volatile-emitting plants
- Biosphere – atmosphere and climate feedbacks driven by plant volatiles





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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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