



Secondary Organic Aerosol Formation and Composition

Guest Editor:

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Message from the Guest Editor

As a major component of global atmospheric aerosols, secondary organic aerosols play important roles in air quality, global climate, and human health. However, the scientific understanding of the principles underpinning these important roles. This inhibits our ability to develop the predictive models needed to inform mitigation and adaptation strategies.

This Special Issue aims to address this need by highlighting high-quality research into the formation processes and composition of secondary organic aerosols. This includes laboratory and field measurements and modeling research regarding:

- Formation processes such as gas-phase oxidation, aqueous chemistry, heterogeneous/multiphase chemistry, and particle phase processes;
- Organic aerosol composition, from molecular speciation to bulk analysis;
- Effects of composition on aerosol properties, e.g., volatility, hygroscopicity, phase;
- Positive matrix factorization (PMF), principle component analysis (PCA), or other factorization methods;
- New and innovative methods and techniques.





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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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