Special Issue

Characteristics and Formation of Secondary Organic Aerosols (2nd Edition)

Message from the Guest Editors

Secondary organic aerosols (SOAs), formed from the multigenerational oxidation of gaseous precursors, account for a major proportion of submicron particles. We need to establish the chemical and physical properties of SOAs, both from gas-phase precursors and from particle-phase evolution as a function of atmospheric conditions. A better understanding of the SOA formation mechanisms and characteristics will help to improve the prediction of aerosol loading and help mitigate air pollution around the world. The aim of this Special Issue is to present recent advances in the field of SOA formation. This topic encompasses SOA precursors from different sources, generated SOAs, and SOA follow-up effects. For this Special Issue, the topics of interest include, but are not limited to: Chemical components of precursors and their contribution to SOAs
Chemical and physical characterization of SOAs in different environments
Formation and evolution mechanisms of SOAs
SOA formation from different sources
Distribution and characterization of different SOA precursors
The environmental impact and health effects of SOAs

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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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