



## Aerosol Mass Spectrometry

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### Message from the Guest Editors

Dear Colleagues,

Atmospheric aerosol is strongly linked to adverse human health effects and premature death, visibility reduction and climate change. The combination of emission sources and atmospheric processing determine its composition. Organic aerosol, which is the dominant mass fraction, exists as a complex mixture making its chemical characterization very challenging. However, detailed knowledge of aerosol composition is fundamental to implement measures to improve air quality and, at the same time, limit aerosol effects on visibility, and improve the knowledge of aerosol–climate interactions. For these reasons, advanced mass spectrometry methods are optimal tools for atmospheric aerosol studies.

For this Special Issue, we seek contributions that document and apply novel analytical methods using advanced mass spectrometry methods for the study of atmospheric aerosol composition, processing, and impacts.

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Dr. Stefania Gilardoni

*Guest Editors*





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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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