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VOC Sensing and Measurements

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Deadline for manuscript submissions:
closed (4 November 2021)

Message from the Guest Editor

This Special Issue is dedicated to 1) the development of analytical methods or instruments for airborne VOC quantification applied in controlled laboratory conditions and/or in real environments and 2) the measurements of VOCs indoors or outdoors to determine their concentrations, their spatial distribution or their temporal variations.

The issue will explore new designs of VOC sampling and sensing to improve the analytical performances (sensitivity, time-resolution, selectivity, portability, etc.). On the other hand, the measurements of VOCs will be applied to various environments including indoor air, industrial areas, urban and rural sites.

The issue is focused on, but not limited to, the following topics related to VOCs:

- Passive and active sampling techniques
- Off-line analytical instruments
- Analytical methods
- Sensors and detectors
- VOC measurements
- Real-time
- Indoor air quality
- VOC exposure
- VOC emissions
- Microdevices

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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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