

Special Issue

Atmospheric Chemistry of Volatile Organic Compounds: Kinetics, Degradation Mechanisms, and Secondary Organic Aerosols

Message from the Guest Editor

With this Special Issue, we invite you to submit your scientific research articles, which cover a broad range of topics on chemistry and physics of atmosphere from gas-phase reactivity and degradation mechanism to secondary organic aerosol formation. Your contributions may include recent experimental work and modeling studies. The topics of interest are around the aim to better understand atmospheric processes but are not limited to:

- Ozone, OH and NO₃ radicals, and chlorine atoms gas-phase kinetics;
- Investigations on the relevant atmospheric photochemical processes;
- Structure–activity relationship and reactivity studies;
- Gas-phase mechanistic investigations of chemical reactions;
- VOC chemical degradation and product formation;
- Modeling applications of reaction kinetics and mechanisms;
- Formation of secondary organic aerosols from gas phase reactions of VOCs—size distribution, formation yield, and modeling studies;
- Theoretical and/or computational methodology of atmospheric general interest.

Guest Editor

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Deadline for manuscript submissions

closed (15 July 2023)



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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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