

## Special Issue

# Theoretical Chemistry of Atmospheric Processes

### Message from the Guest Editor

Atmospheric chemistry occurs within a fabric of profoundly complicated atmospheric dynamics through kilometers of several atmospheric layers.

Understanding the underlying theoretical details of the atmosphere's chemical processes is of fundamental importance, not only to assist the interpretation of observational/field and laboratory measurements, but also to contribute to the building blocks of theoretical models with good predictive capability. At present, one of the highest priority societal challenges concerns climate change, namely the impact of anthropogenic global warming and also of air pollution, for which successful responses and solutions will benefit greatly from the knowledge resulting from atmospheric chemistry research. The present issue invites researchers to submit their novel and unpublished research addressing a broad range of topics, from fundamental method development to applied studies concerning kinetic modelling, reaction path finding, structure activity relationships, modelling of heterogeneous reactions, cluster formation from atmospheric vapours and photochemical aspects of air pollution.

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### Guest Editor

Dr. Luís Pedro Viegas  
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### Deadline for manuscript submissions

closed (16 July 2021)



## Atmosphere

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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!

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### Editor-in-Chief

Dr. Daniele Contini

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