

Special Issue

Reaction Mechanisms and Chemical Kinetics in Atmospheric Chemistry

Message from the Guest Editor

Chemistry in the atmosphere is rather complicated as hundreds or even thousands of coupled chemical reactions are constantly occurring in series and/or in parallel. One must carry out an atmospheric modeling simulation to resolve depletions, demonstrate the formations of key chemicals, and determine some key reactions that control the chemical process. To conduct such a modeling simulation, one must lay out the mechanisms in detail and rate the coefficients for elementary reactions.

In this Special Issue titled 'Reaction Mechanisms and Chemical Kinetics in Atmospheric Chemistry,' we invite submissions in the following areas (this list is not exhaustive):

Experimental studies;
Theoretical (gas-phase kinetics and/or dynamics) calculations;
Field measurements and satellites for atmospheric measurements;
Atmospheric modeling;
Interface reactions;

Guest Editor

Dr. Thanh Lam Nguyen
Quantum Theory Project, Departments of Chemistry and Physics,
University of Florida, Gainesville, FL 32611, USA

Deadline for manuscript submissions

closed (25 October 2024)



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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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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

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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