

Special Issue

Atmospheric Halogen Chemistry

Message from the Guest Editors

Halogen (chlorine, bromine, iodine, etc.) chemistry is important in influencing the fate of chemical composition of the atmosphere and may affect the climate. Halogen compound is a very efficient ozone depleting substance in the stratosphere and in remote troposphere; however, in polluted regions, halogen chemistry can enhance the atmospheric oxidation capacity and formation of ozone. Another crucial role of halogen chemistry includes its remarkable capacity to increase the formation of new particles that can grow to cloud condensation nuclei (CCN) sizes, thereby establishing a link between halogen chemistry and climate. The Special Issue aims to collect original research and review papers on the most recent discoveries of atmospheric halogen chemistry. The topics of interest include but are not limited to the following: 1. Spatial and temporal distribution of halogen (chlorine, bromine, iodine, etc.) in the atmosphere; 2. Sources of halogen; 3. Atmospheric processes of halogen, including gas-phase and heterogeneous reaction; 4. Impacts of halogen chemistry in the atmosphere; 5. Technological and method developments for measurement of atmospheric halogen.

Guest Editors

Dr. Yee Jun Tham

Dr. Qinyi Li

Dr. Alba Badia

Deadline for manuscript submissions

closed (22 April 2022)



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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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