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Rainwater Chemistry and Atmospheric Pollutants

Guest Editors:

Prof. Dr. Qixin Wu

Dr. Caiqing Qin

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

We plan to promote the publication of papers dealing rainwater chemistry and air pollution under the different environmental systems, mainly focus on the compositions, evolution, deposition fluxes, risk assessment of rainwater chemicals, the relationship between rainwater chemistry and air pollutants and the related new technologies/models.

1) The chemical compositions and evolution of rainwater in different terrestrial environment and ecosystem impacted by both anthropogenic and natural processes.

2) Wet deposition fluxes of typical pollutants (e.g., sulfate, nitrate, ammonia, heavy metals, rare earth elements, organic matter) and their environmental effects (risk assessment).

3) Multi-methods based identification and quantification of sources of rainwater ions and air pollutants.

4) Linkage between the rainwater chemistry and air pollutants, and its controlling factors.

5) New technologies/models on observation and study of rainwater chemistry and air pollutants.

6) The responses of rainwater chemistry and air pollution to the environmental policy.

7) Source-sink of greenhouse gases in atmosphere and its reaction between water-air interface.

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Editor-in-Chief

Prof. Dr. Ilias Kavouras
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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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