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Atmospheric Metal Pollution

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Message from the Guest Editors

Dear Colleagues,

Toxic metals can be transported in the atmosphere as gas or/and fine particulates over long distances, causing adverse impacts to both terrestrial and aquatic environments in remote areas after depositing to the Earth's surface. Coal combustion, metal smelting and other human activities release a large amount of toxic metals into the atmosphere. Understanding the sources of atmospheric metal pollution and transport and deposition pathways are crucial to understanding the environmental impacts of toxic metal pollution on ecosystems.

This Special Issue will cover all aspects of atmospheric metal pollution issues, such as the emission inventory of toxic metals to the atmosphere, the speciation and size distributions of toxic metals in the atmosphere, the isotopic compositions of metals in airborne particulate matters, the source attributions of toxic metals in the atmosphere, as well as local-, regional- and global-scale transport modelling of toxic metals in the atmosphere.

Dr. Xinbin Feng
Dr. Jerry Lin
Guest Editors

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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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