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Air Quality and Climate Effects of Traditional and Emerging Pollutants

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Deadline for manuscript submissions:
closed (26 November 2021)

Message from the Guest Editors

Dear Colleagues,

The problems of deteriorated air quality and climate change are inextricably linked and are relevant worldwide, especially so in developing countries. Air pollutants such as fine-mode aerosols are also important climate forcers with significant direct, indirect and semi-direct effects on climate, for which the current understanding is less than adequate. On the other hand, for emerging airborne contaminants such as microplastics, the potential effects on climate are largely unknown. It is highly desirable that climate change mitigation policies deliver co-benefits in terms of air quality improvements while clean air measures additionally reduce climate forcing. To ensure this, policy efforts must consider the climate effects of airborne pollutants along with those on the environment and human health. This Special Issue aims to address this by highlighting research on the complex interactions between air quality and climate, and the pollutants and processes that mediate these effects. Perspectives from both measurement and modeling approaches are welcome for this Issue.

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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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