



## Advances in Transboundary Air Pollution

Guest Editor:

**Dr. Jiarui Wu**

Institute of Earth Environment,  
Chinese Academy of Sciences,  
Xi'an 710061, China

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### Message from the Guest Editor

The air quality of a region is not only determined by local sources but also substantially influenced by trans-boundary transport of air pollutants from adjacent areas, which is controlled by multi-scale synoptic systems. Accurate identification and quantitative source apportionment of air pollutants provide an important prerequisite for the design and implementation of emission control strategies to improve air pollution. This Special Issue aims to quantitatively evaluate the contribution of trans-boundary transport of air pollutants to the air quality in a polluted region under specific weather conditions and separate the contribution of local emissions and trans-boundary transport of air pollutants to air quality under different pollution levels. Topics of specific interest include, but are not limited to, the following:

1. Analysis of the pathway of air pollutants;
2. The effect of weather conditions on the transport of air pollutants;
3. Contribution of trans-boundary of air pollutants to air quality;
4. Development of a source-oriented model;
5. Identify the contribution of trans-boundary of air pollutants under different pollution level;
6. Joint prevention and control strategies.





## Editor-in-Chief

### Prof. Dr. Ilias Kavouras

Environmental, Occupational,  
and Geospatial Health Sciences,  
CUNY School of Public Health,  
New York, NY 10027, USA

## 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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Atmosphere Editorial Office  
MDPI, St. Alban-Anlage 66  
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