Special Issue

Contributions of Emission Inventory to Air Quality

Message from the Guest Editors

The aim of this Special Issue is to describe the recent advances made in the field of emission inventory, air quality modeling, environmental health risks, and carbon emissions. Emission inventory and air quality models play an important role in assessing air pollution and formulating control policies. Emission inventories include, but are not limited to, anthropogenic emission inventories, carbon emission inventories, urban emission inventories, and industry emission inventories. The latest applications of satellite data and emission inventories are also involved and considered. Air quality models are used for forecasting purposes and include mainstream models such as CALPUFF, CMAQ, and CAMx.

Topics of interest for this Special Issue include but are not limited to:

- Emission inventories (anthropogenic emission inventory, carbon emission inventory, urban emission inventory, and industry emission inventory);
- Air quality models (CALPUFF, CMAQ, CAMx, etc.);
- The applications of satellite data and emission inventories;
- Environmental health risks.

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Deadline for manuscript submissions

closed (20 January 2024)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/128991

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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!

Editor-in-Chief

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