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Elemental Composition, Sources and Health Impacts of Aerosols in Large Urban Areas

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Deadline for manuscript submissions:
closed (10 April 2021)

Message from the Guest Editors

Dear Colleagues,

Large urban areas are often subject to elevated levels of air pollution impacting on the people living and working there. Particulate matter (PM), either directly emitted from combustion and other processes, or indirectly formed by chemical reactions during transport in the atmosphere, contributes substantially to harmful pollutants with negative health effects. Even though trace elements often make up rather a minor fraction of the total mass of PM, their impact on the environment and human health is important, and further investigation is required.

This Special Issue shall provide a platform for the publication of recent original research articles or review articles on:

- traditional and newly developed instrumentation and analysis methods for elements in ambient aerosols, applied to large urban areas with numerous emitters;
- results of recent field studies applying such methods to quantify and characterize PM elemental composition, describing its origin, transport and transformation;
- source identification based on or incorporating elemental composition in large cities;

Dr. Markus Furger
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Guest Editor

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Special 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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