



## Urban Atmospheric Aerosols: Sources, Analysis and Effects

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### Message from the Guest Editors

Due to growing urbanization, urban areas are a very special case as far as PM<sub>2.5</sub> concentrations, composition, sources, and health effects are concerned. The physical and chemical properties of urban PM<sub>2.5</sub> (e.g., atmospheric concentration, size (fine- and ultrafine particles), surface area, chemical composition, and water-solubility) can influence the magnitude of adverse health effects. Therefore, it is highly desirable to conduct studies on the physico-chemical and toxicological characterization of urban PM<sub>2.5</sub> in order to assess health effects and to establish efficient control strategies. Furthermore, understanding how urban aerosols affect the air quality of indoor environments in urban buildings is essential in assessing the potential health effects. Hence, much work is still needed to enhance our understanding of the chemical composition, size distribution, source apportionment, and indoor–outdoor relationships of PM<sub>2.5</sub> in urban areas and their health consequences upon exposure.

In this Special Issue, manuscripts on all aspects of urban atmospheric aerosols, namely sources, analysis, and effects, are welcome.





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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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