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Sources, Transport, and Sinks of Aerosol in Urban Environments (Italy)

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editors

Dear Colleagues,

Cities are pollution hot spots and risk areas for public health because of the many pollutants released into the atmosphere from anthropogenic sources (including traffic and domestic heating). Among atmospheric pollutants, aerosol is a growing concern for people living within cities. Aerosol source apportionments, emission factors, measured (original, composite) source profiles, urban aerosol size distributions, spatial distribution mapping, wind and trajectory analysis, deposition paths, field measurements, and the use of dispersion models are fundamental tools in providing useful knowledge in the target of reducing emissions and limiting anthropogenic impact in cities. It is also important to compare the experiences acquired in different cities in order to obtain more widespread and shared information. The aim of this Special Issue will be to collect high-level studies of urban aerosol that allow interpreting aerosols emission, concentrations, dispersion, and deposition, as well as its dynamics in the urban environment, also in relation to the acting sources and to the different meteorological, climatic, and territorial peculiarities.

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Editor-in-Chief

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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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