



Urban Aerosols in Italy

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Message from the Guest Editor

At present, the problem of air pollution in Italian cities is no longer a topic confined within academic studies. The public are aware that action is needed to reduce the impact on health and on climate change. The task of scientific research is to develop methods for more effective source apportionment research and to provide forecasting systems. These studies could help policies to reduce the consequences of the high anthropogenic pollutant impact. In many Italian regions, protocols for limiting atmospheric emissions are applied, acting on daily personal habits, on energy sources, and on the transport system. It is important to compare the experiences gained in many Italian cities and regions to obtain the most widespread and shared information. The high data production of the public monitoring network is not sufficient to understand the reality of urban pollution.

In this Special Issue, we expect to gather high-level studies that allow us to interpret the production, transformation, and impact of urban aerosol in the varied reality of Italian cities, in relation to the different weather and climatic realities and territorial peculiarities.





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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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