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Air Pollution in Urban and Regional Level: Sources, Sinks and Transportation (3rd Edition)

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Message from the Guest Editors

More than half of the world's population (55%) lives in urban areas, where they are subjected to high particulate matter (PM)-related pollution. PM can originate from a vast number of different sources, but is mainly attributed to industrial emissions, local traffic, biomass burning, and natural sources like soil dust and sea salt. Therefore, research aimed at better understanding the sources of PM and the processes they undergo in the atmosphere continues to be very relevant.

The goal of this Special Issue is to bring together the latest scientific knowledge aimed at assessing air pollution at urban and regional levels, including experimental and numerical model studies. The Special Issue will focus on identifying sources of particulate air pollution, their trends, and inter-urban and regional transport. In addition, the Special Issue will cover all major aspects of urban aerosol observations, including the chemical characterization of particulate matter and its impact on human health.

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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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