Special Issue

Dust Aerosols in Urban Atmospheres: Emissions, Air Quality Impact and Source Apportionment

Message from the Guest Editor

Urban aerosols are a mixture of anthropogenic and natural contributions from different sources. Atmospheric particles can be either primary (such as mineral dust, sea salts, or soot) or secondary (including sulfates, nitrates, or secondary organic aerosols, among others) in origin. Over certain regions, the arrival and/or the regular presence of dust aerosols from desert regions are incorporated in the urban atmospheric cocktail, increasing PM concentrations, activating atmospheric processing of gas-species, or exacerbating aerosol health-related effects. In these and other cases, local to regional contributions of dust aerosols can be very relevant, and are typically related to road dust inputs, industrial emissions or agricultural activities. This Special Issue welcomes scientific contributions in the following areas: physical and chemical characterization of emission sources of dust; PM mass and particle number impact of dust aerosols; dust deposition; modeling studies; source apportionment studies; or any review study on these topics.

Guest Editor

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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!

Editor-in-Chief

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