Special Issue

Traffic-Related Air Pollution and Its Impacts on Human Health

Message from the Guest Editor

The vehicular traffic is one of the main sources of urban air pollutant and GHG emissions. NOx, PM10, PM2.5, SOx, CO, benzene derivatives and heavy metals are emitted from vehicle exhausts, besides precursor chemicals in exhausts may lead to O3 formation. These pollutants are key factors in chronic respiratory diseases. Air pollution-related deaths and illness are closely linked to exposure to PM: WHO recommends to keep the PM level as low as possible.

PM, NO2, and O3 levels in the last years exceeded national and WHO standards in many cities in Europe. WHO warned against potentially lethal air pollution levels, but pollution episodes are expected to become more frequent. This Special Issue will collect contributions aimed to assess the correlation between population exposure to traffic-related air pollution and adverse effects on human health, in order to support environmental policies, epidemiological studies and urban mobility planning.

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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