Special Issue

Air Pollution and Human Health in Europe

Message from the Guest Editor

Ambient and household air pollution currently ranks fourth for attributable diseases and mortality among 20 major risk factors evaluated in the Global Burden of Disease (GBD) study, after hypertension, smoking, and dietary factors. Air pollution has a detrimental effect on several organs and outcomes, including respiratory and cardiovascular diseases, diabetes, high blood pressure, stroke, neurodegenerative diseases, premature deaths, and decreased birthweight. In 2020, across Europe, 275,000 premature deaths were caused by fine particulate matter (PM), 64,000 were caused by nitrogen dioxide (NO2), and 28,000 were caused by ozone (O3). In 2021, in the European Union, over 90% of the urban population was exposed to harmful levels of NO2, O3, and fine particulate matter (PM2.5). Hence, it is important to focus on air pollution in Europe. In this Special Issue, we will focus on the respiratory health effects of PM, NO2, O3, and other compounds derived from vehicle traffic, combustion processes, and agricultural activities in Europe.

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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