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Aerosol Pollution in Central Europe

Guest Editor:

Dr. Michał Posyniak
Institute of Geophysics of the Polish Academy of Sciences, Ksiecia Janusza 64, 02-089 Warsaw, Poland

Deadline for manuscript submissions:
closed (1 May 2023)

Message from the Guest Editor

Aerosol particles play a significant role in climate system and in air quality. Depending on the physical and chemical properties and reflectance of the Earth's surface, aerosol particles have a warming or cooling effect on the climate. On the regional scale, the aerosol–climate effect may be completely different from the global one. Aerosol particles may also significantly affect the air quality due to high emissions, and specific weather and topographic conditions. In addition, the regional influence of aerosols on climate and weather tends to be stronger than the global average impact due to their relatively short atmospheric lifetimes and inhomogeneity in sources, transport and deposition.

This Special Issue will be devoted to aerosol pollution in Central Europe. In this region, particularly during the autumn–winter season, emissions from residential heating and transport are the main sources of aerosol pollution. Nowadays, we observe that smog forms as a result of high concentrations of particulate matter.

Original research papers dealing with subjects such as ambient air quality, aerosol pollutant emissions, aerosol pollution modelling are welcome.

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Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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atmosphere@mdpi.com
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