



## Air Quality in Europe: Observation and Measurement of Concentration and Composition

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### Message from the Guest Editor

Dear Colleagues,

Air quality has deteriorated around the world since the onset of industrialization. Owing to a high population density with numerous large cities and several key areas of industrial activity, Europe is now considered a global air pollution hotspot. It has been estimated that exposure to air pollutants in Europe results in nearly half a million deaths across the region annually. The financial implications are equally staggering, with studies indicating that costs of air pollution related deaths and diseases are of the order of USD 1.6 trillion, roughly one tenth of the region's gross domestic product. On the back of a rapidly evolving atmosphere post-COVID-19, it is more crucial than ever that we focus our attention on measuring and characterizing the composition of Europe's airspace.

In this Special Issue, we bring together work from a range of monitoring studies investigating air pollution in Europe in an effort to investigate issues ranging from chemical composition and evolution of gases and particles, to impacts of pollutants on health and the environment.

*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!

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