Special Issue

Measurements of Stable Isotopes in Atmospheric Pollutants and Their Applications

Message from the Guest Editor

Isotopic compositions, such as C, N, S, Pb, Sr etc., have their own unique signatures and ratios from different emissions and source regions, leading to understand potential sources and originated regions of air pollutants. In addition, oxygen isotopic composition usually provides insights to explore formation pathways of air pollutants. Therefore, isotope techniques have tended to be a good tool to track origins, formation mechanisms and cyces of gaseous pollutants and aerosols in the atmosphere. Manuscripts solicited in this special issue are in research areas including, but not limited to, the following topics: (1) developments of novel methods for isotope analysis/monitoring in air pollutants, (2) isotopic compositions constrain on formation mechanisms, source apportionments and atmospheric processes of air pollutants, (3) long-term trends of isotopic compositions and their implications, (4) fractionation effects of isotopes on secondary air pollutants and (5) estabilishements of isotope signatures in air pollutants from emission sources.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2022)

Atmosphere

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Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/100187

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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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