Special Issue

Chemistry, Environmental Effects, and Source Analysis of Particulate Matters

Message from the Guest Editors

Particulate matter (PM) is considered a major air pollutant, imposing negative influences on public health and air quality. The source and formation mechanisms of PM as well as its chemical compositions during pollution events remain unclear due to its complexity. The factors that influence the health and environmental effects of PM also require further study. In addition, emerging contaminants play important roles in public health; however, studies on emerging contaminants in PM are quite scarce. Thus, this Special Issue aims to unite recent research and reviews on the chemical compositions, sources, formation mechanisms, and environmental effects of atmospheric particulate matter. Studies on rapid, high-selectivity, and high-sensitivity analytical methods to determine the chemical constitution of atmospheric particulate matter are expected to be published in this Special Issue. We also invite contributions that focus on source apportionment, environmental impacts, human exposure, and potential adverse health effects. Of special interest are studies on emerging contaminants in atmospheric particulate matter.

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Deadline for manuscript submissions

30 May 2025

Atmosphere

an Open Access Journal by MDPI

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CiteScore 4.6

mdpi.com/si/205406

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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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