



## Physicochemistry of Indoor and Outdoor Particulate Matter and Health Effects

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submissions:

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### Message from the Guest Editors

Air pollution in the Asia is not only a major health risk, it also has damaging impacts on the environment and agricultural crop yields. Over the past two decades, the health effects resulted from exposure to air pollution (i.e. particulate matter (PM) and gases) have been subjected to intensive research. Epidemiological studies have linked outdoor air pollution to increase human morbidity and mortality. The physicochemical characteristics of PM is an important determinant in regulation of particle toxicity and the resultant human effects. Now, increasing techniques and approaches have been used to investigate the formation of atmospheric aerosols as well as used for personal exposure assessment (i.e. machine learning and land-use regression model). This study investigated oxidative capacity, in terms of reactive oxygen species (ROS), driven by the physicochemistry of PM. The aim of this Special Issue is to collect contributions, original results, review papers, and novel approaches aiming to characterize outdoor and indoor particles/aerosol and adverse effects on human health.





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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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