Special Issue

Tropospheric Ozone in China: Current Situation, Formation Mechanism and Control Measures

Message from the Guest Editors

With the implementation of the Clean Air Plan since 2013, China's particulate pollution has improved significantly, but ozone pollution has deteriorated. The scientific community has discussed the reasons and believes that there are three possibilities. First, global warming leads to an increase in VOCs emitted by vegetation. The increase in temperature and VOCs drives the increase in the ozone background value. Second, because the response between ozone and precursors is nonlinear, inappropriate precursor emission reduction strategies lead to an increase in ozone. Third, the sharp decrease in particulate matter concentration may lead to the enhancement of radiation and decrease in HO2 uptake on particulate matter, resulting in an increase in ozone concentration. This Special Issue aims to present original research (including review articles) investigating ozone pollution in China. This Special Issue aims to present original research (including review articles) investigating ozone pollution in China, focusing on ozone and its precursors in urban, rural, and background environments.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2023)

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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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