Special Issue

Advances in Understanding Ozone Pollution

Message from the Guest Editors

Surface ozone produced by photochemical reactions contributes to climate change and has adverse effects on the ecosystem and public health. In September 2021, the World Health Organization (WHO) recommended an 8 h daily maximum of 100 μg/m3 (~50 ppbv) as the threshold for ozone pollution, which is lower than current air quality standards in most regions such as the Unites States, the European Union, and China. As such, it is crucial for scientists to improve our understanding about ozone pollution and provide scientific evidence for future regulations.The Special Issue hosted by Atmosphere is to recap recent advances in our understanding of ozone pollution. The topics cover all related research fields, including but not limited to: innovation in ambient ozone and precursor monitoring, updated ozone photochemical mechanism, development of new remote sensing products, advancement in air quality modeling, novel methodology etc. The Special Issue is also relevant to investigation of surface ozone under global change (e.g., COVID-19 and climate change), and encompasses research quantifying health damage from ozone pollution.

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Deadline for manuscript submissions

closed (12 August 2022)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/107356

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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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