



Urban Air Chemistry in Changing Times

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Adverse health effects and reduced visibility have motivated the study of chemical processes in urban air for more than a century. Much of the knowledge on urban air chemistry stems from the influence of fuel combustion and industrial emissions combined with appreciation for multi-spatial scale influences. With reductions in fuel combustion and industrial processing, urban air chemistry will change in ways that are perhaps known but less predictable. These include the influence of a decline in carbon-based energy production and use, as well as the evolution of chemical industries superimposed on uncertain regional or global “background” processes. For oxidants, these include the shifting to nitrogen oxide sensitivity and ozone production efficiency. For fine particles, the shift away from secondary inorganic species to organic constituents. For toxins, what new species are emerging and what may be their reactivity? This Special Issue is devoted to exploring the features of atmospheric chemistry in response to contemporary urban changes in cities.

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Guest Editor





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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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