

Special Issue

Chemical Speciation Monitoring and Measurement

Message from the Guest Editor

The high level of ozone and fine particulate matter adversely impact human health in most urban areas. A number of organic and inorganic chemical species are involved in generating ozone and fine particulates in the atmosphere through chemical reactions, which are inherently non-linear and complex. Both theoretical and experimental studies are required to understand this complex chemical reaction system. Especially, much needed are detailed measurement and monitoring of chemical speciation of PM_{2.5} and VOCs. In this Special Issue, we encourage the publication of papers on three topical areas: development and application of real-time monitoring methodology, intensive speciation measurements, long-term speciation monitoring. The first topic deals with measurements of PM_{2.5} composition and VOC speciation using state-of-art real-time monitoring equipment. The second topic deals with collaborative studies involving several research groups on intensive monitoring of the specific air pollution episode. Finally, the third topic deals with the analysis of long-term monitoring data from local or regional monitoring networks.

Guest Editor

Prof. Dr. Seogyeon Cho
Department of Environmental Engineering, Inha University, Incheon,
Korea

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closed (30 November 2021)



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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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About the Journal

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

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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