Special Issue

Composition Analysis and Health Effects of Atmospheric Particulate Matter

Message from the Guest Editor

The health effects of atmospheric PM have raised broader, stronger concerns in recent years, calling for comprehensive environmental health-risk assessments to provide new insights into their relations to composition analysis. Understanding the quantitative contribution of different components is crucial for correctly assessing their toxicities and exposure risks on human health. The Special Issue invites, but it is not limited to, studies with the following topics:

- Proposing new measurement techniques and analysis approaches on particulate matter's components ;
- Estimating particle toxicities and health impacts using physical, chemical, statistical and artificial intelligence methods;
- Emphazing the impacts of atmospheric particulate matter in both indoor and outdoor environment on human health;
- Proposing new tools and indicators for assessing toxicological effects and adverse health impacts of atmospheric particulate matter;
- Assessing the exposure risk to human health relating to compositions of airborne particulate matter;
- Modelling the dynamics of the different compositions of particles to predict their toxicities and health effects.

Guest Editor

Prof. Dr. Hong Geng
Institute of Environmental Science, Shanxi University, Taiyuan 030031, China

Deadline for manuscript submissions

closed (25 July 2024)

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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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