Special Issue

Advancing Insights into Atmospheric Aerosols: Understanding Aerosol Formation, Characteristics, Sources and Mitigating Strategies

Message from the Guest Editors

In response to the escalating concerns surrounding air pollution and its detrimental impacts on human health and the global climate, this Special Issue aims to catalyze discussions on recent advancements in the understanding of atmospheric aerosols and to provide a comprehensive platform for researchers to share their recent work. This Special Issue encourages researchers to delve into various aspects of aerosol science, including the formation mechanisms of aerosols, their physical and chemical properties, sources, etc. Authors are encouraged to discuss the implications of their findings for future aerosol research, air quality improvement, and potential abatement strategies. Through collaborative efforts, this Special Issue aims to advance our understanding of atmospheric aerosols and inform strategies for mitigating their adverse impacts on human health and the environment. Topics of interest for this Special Issue include, but are not limited to, the following:

- Investigation of ambient aerosols' physical and chemical properties;
- Aerosol formation mechanism;
- Aerosol source apportionment;
- Aerosol toxicity;
- Strategies for mitigating aerosol pollution.

Guest Editors

Dr. Jingsha Xu

Hangzhou International Innovation Institute, Beihang University, Hangzhou 311115, China

Dr. Deepchandra Srivastava

School of Geography, Earth & Environmental Sciences, University of Birmingham, Birmingham B15 2TT, UK

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

mdpi.com/journal/ atmosphere





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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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