Special Issue

Understanding Aerosol Filtration: Current Status and Future Directions

Message from the Guest Editors

Recent advances in manufacturing technologies have opened the door for novel aerosol filtration materials and media production. Additionally, advanced imaging and computational capabilities allow for improvements to be made on existing filtration models, as well as the development of new modeling techniques. In this Special Issue of *Atmosphere*, "Advances in Understanding Aerosol Filtration", researchers are encouraged to present and share their work that highlights the utilization of these novel technologies, bringing a deeper and more diverse understanding to the field of aerosol filtration. We invite papers exploring all topics on novel aerosol filtration, including, but not limited to, the following:

- Media production techniques;
- Analysis methodologies;
- Modeling capabilities;
- Media material considerations;
- Performance testing and enhancement;
- Particle formation and analysis;
- Instrumentation techniques;
- Flow simulation.

We will consider papers outside of these topics that still fit within the general scope of advances in understanding aerosol filtration.

Guest Editors

Dr. Alta A. Knizley

Prof. Dr. Heejin Cho

Dr. Ivan P. Beckman

Dr. Shanti Bhushan

Deadline for manuscript submissions

closed (27 December 2024)

Atmosphere

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Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/205610

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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