Special Issue

Transport and Dispersion of Aerosols: Experimental and Numerical Studies

Message from the Guest Editors

The objective of this Special Issue is to advance our understanding of the mechanisms governing aerosol transport and dispersion processes. Topics of interest for the Special Issue include but are not limited to:

Delivery of aerosols in the human respiratory system: Investigating the transport and dispersion of aerosols within the respiratory system, considering factors such as particle size, deposition patterns, hydroscopicity during transport, and the potential implications for the spread of viral aerosols.

Interactions between aerosols and indoor environments: Exploring the dynamic exchange and behavior of aerosols within indoor environments, including aspects such as filtration and ventilation and their impact on the transmission dynamics of viral aerosols.

Interactions between aerosols in indoor and outdoor environments: Examining the complex interactions between aerosols present in both indoor and outdoor environments, considering factors such as airflows, pollutant sources, and the effects of outdoor weather conditions on the transport and dispersion of viral aerosols.

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Deadline for manuscript submissions

closed (19 July 2024)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/178797

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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

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