Special Issue

Atmospheric Dispersion of Pollutants: From Regulatory to Emergency Applications

Message from the Guest Editor

Atmospheric dispersion is the indispensable physical process for understanding and regulating airborne pollutants. This Special Issue is devoted to all theoretical, modeling, and observational aspects of the atmospheric dispersion of pollutants from the key emission sources for regulatory purposes, and applications in accidental releases for emergency management. Both measurements and numerical modeling studies are welcome.

The topics of interest of this Special Issue include but are not limited to in situ and remote sensing measurements of atmospheric dispersion of pollutants, development of emission inventory, parameterization of meteorological processes related to atmospheric dispersion, atmospheric dispersion models at various scales (from local to continental scale), exposure assessment, data assimilation, and inverse modeling.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/121704

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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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