Special Issue

Advances in Chemical Contaminants and Biological Droplets Dispersion into Indoor Environment

Message from the Guest Editors

The rapid spread of COVID-19 has a major influence on our daily lives and habits, as well as the way we interact with each other. During a pandemic outburst, people usually spend most of their time into enclosed indoor building environments, increasing the cross-infection risk due to the space limitation and poor air ventilation. As a result, it is essential to investigate the characteristics and dispersion mechanisms of chemical and biological airborne particles among occupants into indoor building environments with the aim of controlling the spread of infectious disease. It still remains a challenge to fully understand the mechanisms of microorganism spread and dynamics of droplet formation among occupants under different characteristics and conditions of the building's indoor environment, including the operation of HVAC systems. This Special Issue invites high-quality scientific articles related to the current understanding of chemical contaminants and biological droplet dispersion into indoor environment, using advanced numerical (e.g., computational fluid dynamics) and experimental methods.

Guest Editors

Dr. Christos Argyropoulos

Dr. Apostolos Michopoulos

Dr. Dikaia E. Saraga

Deadline for manuscript submissions

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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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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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