Special Issue

Bioaerosol Exposure and Risk Assessment

Message from the Guest Editor

Recent studies have demonstrated new effects of aerosol inhalation on human health. Aerosols include biological particles and other types of material that can be inhaled. How quantitatively and qualitatively to analyse aerosols in indoor and outdoor environments is not well understood yet. In particular, research is required for:

- The evaluation of the interactions between aerosol components and both the natural environment and humans;
- Designing a comprehensive approach considering additive, synergic or other effects on human health ;
- The study of specific microenvironment aerosol exposure for a correct risk assessment;
- The determination of aerosol contribution to exposomic research models and its influence on the adaptive genome, including epigenetic mechanisms and lung microbiota modulation.

This Special Issue seeks research papers on the interaction between aerosol inhalation and human health, focusing on thorough risk assessment analyses. We encourage the submission of interdisciplinary works discussing new tools in aerosol risk assessment.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2020)

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mdpi.com/si/30640

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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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