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Bioaerosol Detection, Analysis and Impacts on Health and Climate Change

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Deadline for manuscript submissions:
closed (31 July 2020)

Message from the Guest Editors

The need to monitor the occurrence, transport and transformation of aerosols in our atmosphere has increased dramatically over recent years. The necessity is based on the undesirable effects that they can have on our health and the role they play in climate change. An important component of the global budget, both outdoors and indoors, are bioaerosols (often termed primary biological atmospheric particles or PBAP). These are comprised of materials such as viruses, bacteria, fungal spores, pollen, sub-pollen, and plant fragments. Therefore, we invite you to consider submitting your research for publication in this Special Issue of the journal, focusing on "Bioaerosol Detection, Analysis and Impacts on Health and Climate Change". The aim is to communicate a selection of papers on the current state of field, laboratory and computer modelling studies relevant to atmospheric bioaerosol loading.

Relevant current issues include real-time pollen and fungal spore monitoring and networking systems; the development of novel bioaerosol sensors; indoor sensing for occupational purposes (e.g., hospitals) and "smart" homes; surface phenomena and reactions and so on.

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Editor-in-Chief

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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!

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