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Interaction of Air Pollution with Snow and Seasonality Effects

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Deadline for manuscript submissions:
closed (4 July 2020)

Message from the Guest Editors

Dear Colleagues,

Among the various types of environmental surfaces, snow and ice crystal surfaces have historically attracted comparatively less research attention, in part due to the difficulties of conducting both laboratory and field studies at subfreezing temperatures. Nevertheless, during the last few years, snow and ice research intensified thanks to the newly developed experimental and field approaches, and the rapidly increasing research activity in the seasonally or permanently colder regions of the world, including Canada, China, and Scandinavia. It is now clear that snow plays an important role in the fate of air pollutants: from exhaust-derived contaminants to microplastics.

This Special Issue focuses on all aspects of the interaction of air pollution with snow. We invite you to consider submitting articles reporting on field- and laboratory-based observational and modeling studies, environmental monitoring, exposure, and epidemiological research, and work that is either regionally or globally relevant. Other aspects of air pollution interaction with snow not listed above are also welcome.

Dr. Yevgen Nazarenko
Prof. Dr. Parisa A. Ariya
Guest Editors

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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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