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Snow Cover—Processes, Changes, Connections

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Deadline for manuscript submissions:
closed (15 October 2021)

Message from the Guest Editors

Snow cover has great importance in the Earth's environment affecting radiation balance and water budget. It is a key factor in the feedback loop that explains global warming: shorter snow cover duration → lower albedo → higher temperature → shorter snow cover duration → ... Nevertheless, we have not yet learned the full details of either the mechanisms and processes within snow cover itself, or the relationship of snow cover with other climate and environmental elements. This Special Issue will collect and present the latest research on these snow cover mechanisms, processes, and connections in different regions of the world:

- Properties and processes relating to snow cover, including physical and chemical properties, ablation, accumulation, sublimation, subsidence, snow deflation, etc.
- Long-term changes of area, duration, and depth of snow cover and snow water equivalent
- Direct and indirect connections, teleconnections, and feedbacks of snow cover and atmospheric circulation, climate elements, environmental elements, etc.

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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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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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