Transport Phenomena in the Atmospheric Boundary Layer

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

This Special Issue is centered around understanding transport phenomena within the atmospheric boundary layer (ABL) from experimental, analytical, and numerical points of view. Articles are invited that aim to advance the understanding of transport phenomena in ABL in areas of 1) discovery (e.g., new or previously unstudied phenomena); 2) measurement techniques (e.g., in situ or remote sensing); 3) data processing (e.g., instrumentation, data collection, algorithm design, statistical analysis, etc.); 4) analytical modeling (e.g., closed-form solutions); and 5) numerical modeling (e.g., numerical weather prediction (NWP), computational fluid dynamics (CFD), etc.) across the scales from micro to meso scales. The proposed articles may study ABLs in rural, agricultural, urban, industrial, or remote environments.

Special Issue

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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