





an Open Access Journal by MDPI

# Atmospheric Boundary Layer Processes, Characteristics and Parameterization (2nd Edition)

Guest Editors:

#### Prof. Dr. Yubin Li

School of Atmospheric Physics, Nanjing University of Information Science & Technology, Nanjing 210044, China

## Prof. Dr. Jie Tang

Shanghai Typhoon Institute of China Meteorological Administration, Shanghai 200030, China

Deadline for manuscript submissions:

closed (31 March 2024)

# **Message from the Guest Editors**

Dear Colleagues,

The atmospheric boundary layer is distinguished from the rest of the atmosphere by its unique characteristics, i.e., direct interaction with the Earth's surface and active turbulence. Understanding the dynamic and chemical processes in the boundary layer is of great importance in weather and air quality forecasting. Recently, with the improvements made in observation and simulation techniques, our understanding of atmospheric boundary layer processes and characteristics has significantly improved. For example, ultrasonic anemometers and largeaperture scintillometers can provide information on turbulent exchanges, while large eddy simulation techniques simulating the detailed structure of turbulent eddies. This Special Issue is dedicated to reporting new findings with regard to atmospheric boundary layer processes, characteristics, and parametrization methods. Potential topics include, but are not limited to, turbulent exchange, transportation, and their parametrization; boundary layer jet; local atmospheric circulation; surface energy partitioning; atmospheric stability condition; pollutant distribution and transportation; etc.











an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Ilias Kavouras

Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

## **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!

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

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

#### **Contact Us**