



Physics of Flow and Transport in Urban Canopy Layers

Guest Editors:

Dr. Ting Sun

Department of Meteorology,
University of Reading, Reading
RG6 6BB, UK

Dr. Benjamin Crawford

Geography and Environmental
Sciences, University of Colorado
Denver, Denver, CO 80204, USA

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Message from the Guest Editors

This Special Issue of *Atmosphere* focuses on the flow and transport of energy, water, greenhouse gases, and pollutants in urban canopy layers. We invite you to contribute to this Special Issue with your state-of-the-art research endeavors to further our fundamental understanding of the physics and thermodynamics of flow over complex built terrains, and more importantly, to inform and foster sustainable urban environment management and policy-making processes in the long run. We solicit original **research papers, reviews, and perspectives** on all topics related to urban atmospheric studies, with an impact on local hydrometeorological changes as well as regional and global environment–health–climate repercussions. Specific topics include but are not limited to observations and numerical simulations of urban flow field, exchange of energy, water, and scalars in the land–atmosphere continuum, and the underlying dynamics of the urban heat island, air pollution, and hydroclimate changes.





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Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

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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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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