

Special Issue

Urban Climate Resilience: Atmospheric Dynamics, Building Energy Demand and Their Interactions

Message from the Guest Editors

The sustainability and livability of cities represent a major challenge today, especially considering climate change. This Special Issue aims to gather relevant contributions highlighting recent and updated research findings. Contributions focusing on (but not limited to) atmospheric dynamics, air quality, building energy demands in urban areas, and related topics are encouraged. This Special Issue also wishes to encourage a fruitful scientific debate on strategies to alleviate the impact of climate change on the environment and on urban dwellers' quality of life of urban dwellers. In addition, we also welcome contributions addressing the following:

- co-benefit strategies for urban heat waves and flooding;
- climate adaptation and mitigation strategies for climate equity and justice;
- research exploring integrated approaches to mitigate the impacts of both urban heat waves and flooding, including sustainable urban drainage systems (SUDSs) and other adaptive strategies which provide multiple benefits.

Guest Editors

Dr. Serena Falasca

Dr. Ferdinando Salata

Dr. Simona Mannucci

Deadline for manuscript submissions

closed (25 April 2025)



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About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini

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