Special Issue

Recent Advances in Urban Climate

Message from the Guest Editors

As urbanization accelerates worldwide, cities face growing challenges associated with the urban climate, including the urban heat island effect, altered weather patterns, degraded air quality, increased energy demand, and extreme events. These changes not only impact the health and comfort of those living in urban areas but also contribute to broader climate change challenges. The intersection of urbanization and climate research has produced vital insights into how cities can adapt to climate change, improve energy efficiency, and become more resilient to environment stressors. These advances underscore the importance of interdisciplinary research in shaping future cities that are both liveable and sustainable in an era of global climate change. This Special Issue seeks to address these challenges by exploring the complex interactions between urbanization, climate change, and sustainability. We encourage submissions that delve into key topics, such as the urban heat island effect, urban microclimates, climate-resilient city planning, and the role of renewable energy in mitigating climate impacts.

Guest Editors

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Dr. Yi Wang

Deadline for manuscript submissions

closed (30 September 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

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