Special Issue

Urban Adaptation to Heat and Climate Change

Message from the Guest Editors

As the frequency and intensity of urban heatwaves and climate-related hazards continue to rise, cities across the globe face mounting challenges in safeguarding public health, maintaining livability, and achieving long-term resilience. This Special Issue invites the submission of original research, case studies, and review articles that explore multidisciplinary approaches to urban adaptation in the context of heat stress and broader climate change impacts. This Issue centers on understanding how urban systems respond and adapt to increasing heat and climate variability. We welcome studies that examine urban heat island (UHI) effects, climate-sensitive urban design, and the integration of mitigation and adaptation strategies in urban policy and planning. We encourage contributions on a wide range of topics, including nature-based solutions and green infrastructure; passive cooling strategies and thermal comfort modeling; urban morphology; environmental justice in heat adaptation; application of digital tools for monitoring, forecasting, and managing urban heat risks. Studies highlighting the co-benefits of climate-resilient and low-carbon urban development are particularly welcome.

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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!

Editor-in-Chief

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