Special Issue

Urban Microclimate: Thermal Comfort, Air Quality and Green Building as Drivers of Healthy Urban Design

Message from the Guest Editors

Rapid urban expansion and anthropogenic activities are dramatically impacting the urban microclimate in multiple and various ways. It is important to establish solutions to address the urban microclimate according to local conditions. In this context, this Special Issue aims to deal with different aspects involving the urban microclimate, including investigating the origin and evolution of the urban microclimate, comprehensive and interdisciplinary studies focusing on the mitigation of and adaptation to the UHI phenomenon, solutions to air pollution, green building design, as well as the improvement of indoor and outdoor thermal comfort and livability. We are interested in a broad range of urban microclimate studies from various parts of the world. We also welcome papers presenting innovative methods and interdisciplinary research. This Special Issue is designed to provide insights into recent research in experimental, numerical modelling, integrated planning and design approaches. We hope that this Special Issue will enrich ongoing studies on urban livability and science-driven urban design practices.

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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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