



Infrastructure Planning for Urban Climate Moderation

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Message from the Guest Editors

Dear Colleagues,

Urban infrastructure is typically defined by colour; grey, green, or blue. **Grey** delineates the road, rail, energy, water, etc assets that power our cities. **Green** is generally seen as an intra-urban network of vegetation. **Blue** embraces new technologies integrated with existing systems to enhance urban water management. In today’s ultra-connected world, information networks surely qualify as a ‘colour’ in their own right—transparent infrastructure, perhaps.

Rapid urbanisation and the resulting growth in local urban heat island effects, the overarching global challenge of climate change, and the **interaction** between global and local, provides the backdrop to this Special Issue of *Atmosphere*. The fundamental factors around which research and practice on moderating urban climates coalesce are **urban form, water, vegetation and materials**. These factors are intimately tied to the infrastructure colours outlined above. This Special Issue aims to publish a cross-section of quality research that addresses how infrastructure planning can help to reduce urban overheating; contributions are invited!

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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!

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