



## Urban Heat Island and Mitigation Technologies—Impact and Mitigation

Guest Editors:

**Dr. Junjing Yang**

Department of Building, National  
University of Singapore,  
Singapore

**Prof. Dr. Mattheos  
Santamouris**

Group of Building Environmental  
Research, Department of Physics,  
National and Kapodistrian  
University of Athens,  
Panepistimioupolis, 15784  
Athens, Greece

Deadline for manuscript  
submissions:

**closed (31 May 2018)**

### Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue is to collect and publish the results of recent advanced scientific research and a systematic literature review in the following, but not exhaustive, list of areas:

1. Studies on the characteristics and the magnitude of UHI (Urban Heat Island);
2. Microclimate characteristics at the urban scale due to the urban heat island and urban overheating;
3. Mitigation technologies and applications studies;
4. Impact of UHI on energy, comfort, health, environment, and economy;
5. Performance evaluation demonstrations and active intervention at the urban level;
6. Big data solutions for remote monitoring, data analyses, and control/optimization for urban heat island study;
7. Case studies in cities and best practices on mitigation solutions;
8. Remote sensing studies

Dr. Junjing Yang  
Prof. Dr. Matheos Santamouris  
*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Luis Hernández-Callejo**

Department of Agricultural and Forestry Engineering, University of Valladolid, Campus Duques de Soria, 42004 Soria, Spain

## Message from the Editor-in-Chief

*Urban Science* is a scholarly international journal which provides a platform for the exchange of theories, ideas, methods, analyses, and comparative studies of urban and regional development. It is a peer-reviewed, open access journal that publishes high quality original articles, theoretical essays, critical reviews, research notes, and shorter communications. Its broad definition of “science” includes both quantitative and qualitative methods of social, environmental, and spatial analysis. There is no restriction on the length of the papers.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#) and [other databases](#).

**Journal Rank:** CiteScore - Q1 (*Urban Studies*)

## Contact Us

---

Urban Science Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/urbansci](http://mdpi.com/journal/urbansci)  
[urbansci@mdpi.com](mailto:urbansci@mdpi.com)  
[X@Urbansci\\_MDPI](https://twitter.com/Urbansci_MDPI)