



Urban Heat Island and Building Energy Sustainability

Guest Editors:

Dr. Rui Zhu

Prof. Dr. Mansing Wong

Dr. Sawaid Abbas

Dr. Jinxin Yang

Deadline for manuscript
submissions:

closed (31 October 2023)

Message from the Guest Editors

Dear Colleagues,

The urban heat island (UHI) is a special environmental phenomenon in which temperatures (e.g., land surface temperatures, or near surface air temperatures) in the urban area are significantly higher than its surrounding rural areas. Scientific evidence has proved that UHIs can cause many adverse effects in society. Thus, this Special Issue aims to report the most recent studies related to UHIs, for creating a comfortable and livable urban environment. We warmly welcome original, high quality and unpublished manuscripts coming from both academia and industry.

This Special Issue will focus on, but not limited to, the following topics:

1. Estimating land surface temperatures or near-ground air temperatures;
2. Modeling spatio-temporal heat sources, e.g., anthropogenic heat and latent heat;
3. Modeling dynamic evolutions of UHIs;
4. Investigating formation mechanisms;
5. Forecasting UHIs in the current or reformed urban areas;
6. Proposing UHIs mitigation strategies;
7. Energy interactions with UHIs, e.g., solar energy, distributed solar PV farming, building/transport energy consumptions;
8. UHIs related to public health.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)