Special Issue

Exploring Urban Heat Islands: A Special Issue on the Environmental Impacts and Root Causes

Message from the Guest Editors

The scope of the Special Issue encompasses a wide range of topics related to UHIs, including but not limited to the following:

The physical and meteorological processes that drive UHI formation and intensity;

The impacts of UHIs on energy consumption, air quality, and public health;

The role of urban planning and design in exacerbating or mitigating UHI effects;

The effectiveness of various strategies, such as green infrastructure, cool roofs, and urban forestry, in reducing UHI-related risks:

The influence of climate change on the frequency and intensity of UHIs;

Socioeconomic disparities and the unequal distribution of UHI-related vulnerabilities;

The potential for technological innovations to address UHI challenges. This Special Issue will feature original research articles, review articles, case studies, and policy analyses that provide a multidisciplinary perspective on UHIs and their environmental implications. This Special Issue seeks to inspire further research and action in addressing the complex issue of urban heat islands and their impacts on urban environments and human well-being by highlighting the importance of interdisciplinary research and collaboration.

Guest Editors

Dr. Md Golam Rabbani Fahad

Dr. Maryam Karimi

Dr. Samain Sabrin

Dr. Md Mahfuzer Rahman

Deadline for manuscript submissions

closed (1 July 2024)



an Open Access Journal by MDPI

Impact Factor 2.9 CiteScore 3.7



mdpi.com/si/170494

Urban Science Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 urbansci@mdpi.com

mdpi.com/journal/ urbansci





an Open Access Journal by MDPI

Impact Factor 2.9 CiteScore 3.7



About the Journal

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 maximum length of the papers.

Editor-in-Chief

Prof. Dr. Luis Hernández-Callejo

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

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:

JCR - Q1 (Geography) / CiteScore - Q1 (Urban Studies)

