buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 4.4

Urban Climatic Suitability Design and Risk Management

Guest Editors:

Dr. Lin Liu

Dr. Genyu Xu

Dr. Jing Du

Dr. Xiaoyu Tian

Deadline for manuscript submissions:
closed (31 October 2025)

Message from the Guest Editors

Dear Colleagues,

Urban climate seems to comprise the outcomes of rapid urbanization, large population size and complex human behavior. Considering the emerging issues of the urban climate, this Special Issue explores advanced technologies or theories to contribute to urban climatic sustainability design and risk management. The Guest Editors cordially welcome high-quality papers focusing on, but not limited to, the following topics:

- Field measurement or numerical modeling of urban climate at different scales.
- Human thermal comfort and thermal safety risk assessment and management.
- Mathematical models of urban heat balance theory.
- Effects of urban morphology and underlying surface materials on urban climate.
- Climate-sensitive health risk prediction and urban design.
- Sustainability assessment of urban climate.
- Air quality modeling analysis and risk management.
- Urban flood disaster prediction and management.
- Effective management modes applied in urban governance.

For more information on the special issue, please click on the link below.

https://www.mdpi.com/journal/buildings/special_issues/4IULLJC

buildings

IMPACT FACTOR 3.1

CITESCORE 4.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.
Journal Rank: JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/buildings
buildings@mdpi.com
𝕏@Buildings_MDPI