



## Advances in Sustainable Construction

Guest Editors:

**Dr. Yan Fu**

**Dr. Pengpeng Xu**

**Dr. Queena K. Qian**

**Prof. Dr. Henk Visscher**

Deadline for manuscript  
submissions:

**closed (20 April 2024)**

### Message from the Guest Editors

Relevant topics for this Special Issue include but are not limited to the following subjects:

1. Modern methods of construction, including prefabrication, off-site construction, modular construction, etc.
2. Technology innovation to improve construction performance, including prefabrication technology, robotic technology, etc.
3. Monitoring of construction processes for sustainable management.
4. Decision optimization in sustainable construction projects.
5. Clean production in the construction sector.
6. Greenhouse gas emission calculation methods for construction projects.
7. Quantitative assessment of greenhouse gas emissions in buildings
8. Quantification of greenhouse gas emissions of construction equipment on-site and off-site.
9. Uncertainty analysis for measuring greenhouse gas emissions.
10. Management in the treatment of construction and demolition waste.
11. Measures of dynamic properties of infrastructures and urban construction.
12. Resilient cities and sustainable urban.

To get more information, please click on this link:

<https://www.mdpi.com/journal/buildings/specialIssues/P380EI5LV2>





*buildings*



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

### Author Benefits

**Open Access:** free for readers, with the added environmental innovation and technology that can bring dramatic improvements to design, planning, and policy as critical in developing the cities and buildings of the future.

**High Visibility:** indexed with ISI/Scopus, CiteWeb, Scopus, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (*Architecture*)

### 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. Innovation and technology that can bring dramatic improvements to design, planning, and policy as critical in developing the cities and buildings of the future.

### Contact Us

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

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

mdpi.com/journal/buildings  
buildings@mdpi.com  
X@Buildings\_MDPI