



## Research towards a Sustainable Built Environment

Guest Editor:

**Dr. Georgios S. Papavasileiou**

Division of Engineering, School of  
Computing, Engineering and  
Physical Sciences, University of  
The West of Scotland, Glasgow  
G72 0LH, UK

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editor

It is my pleasure to invite you to this Special Issue, titled  
“Research towards a Sustainable Built Environment”.

Sustainability is not an abstract concept anymore, but a  
necessity for our societies to ensure growth and prosperity in  
the future. It has a lot of aspects, all of which need to be  
addressed in this direction. With a world population expected  
to exceed 8 billion within 2022, it is clear that the built  
environment will play a significant role in people’s living  
standards and societies’ potential for future development.

This Special Issue is a unique opportunity to bring together  
research works from different fields presenting  
advancements and technologies, which can be used to  
achieve a more sustainable built environment. To this end,  
works from a wide range of scientific areas are invited,  
including but not limited to:

- Structural resilience
- Structural optimization
- Multihazard design
- Retrofit of structures
- Cost and material minimization
- Recyclability and deconstruction
- New and high-performance materials, etc.





## 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 Scopus, SCIE (Web of Science), Inspec, and other databases.

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

## 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