





an Open Access Journal by MDPI

# To Improve Urban Resilience: Cleaner Materials and Technologies towards Sustainable and Green Construction of Buildings

Guest Editors:

Dr. Xi Jiang

Dr. Pawel Polaczyk

Dr. Rui Xiao

Dr. Wei Hu

Deadline for manuscript submissions:

closed (20 January 2024)

# **Message from the Guest Editors**

Dear Colleagues,

This Special Issue will address advances in cleaner production, cleaner and responsible consumption, cleaner engineering and technology, and cleaner materials.

In this context, this Special Issue was conceived to pose important questions for authors to address in their studies:

- How can we help to realize the aim of carbon neutrality?
- What can we do to make the infrastructures more sustainable?
- How can we help to improve the urban resilience?

In relation to these wide-ranging issues, the potential subjects for this Special Issue include (but are not limited to):

- Green construction materials;
- Sustainable infrastructures;
- Novel approaches to improve the urban resilience;
- Case studies of sustainable constructions;
- Lifecycle analysis of sustainable structures;
- Development of resilient construction.











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, 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**