

## Special Issue

# Simulations and Methods for Disaster Risk Reduction in Sustainable Built Environments

### Message from the Guest Editors

This Special Issue focuses on the built environment, both indoors at the building scale and outdoors at an urban scale. Tools and methods to design a sustainable built environment in view of disasters serve to increase the resilience of spaces and communities and may help to quickly manage emergencies, thus making the built environment sustainable. But such tools must be sustainable themselves, that is: 1) they must be based on assessment methods which consider all relevant interactions between humans, the built environment, and disaster-related effects, which can lead to significant differences between expected (and designed) and real performances; 2) they must provide a holistic, multi-risk and multi-scale perspective (“macro to micro to macro” approach in solutions implementation, that involve issues related to single building scale and urban scale); 3) they must help to promote good practices and “correct” behaviours from the perspective of users and stakeholders, before and during the emergency; 4) they must jointly assess the impact of physical interventions on the built environment and its management, also in emergency conditions.

### Guest Editors

Dr. Gabriele Bernardini

Department of Construction, Civil Engineering and Architecture (DICEA), Università Politecnica delle Marche, 60121 Ancona, Italy

Prof. Dr. Gerta Köster

Faculty of Informatics and Mathematics, Hochschule München/Munich University of Applied Sciences, 80335 Munich, Germany

### Deadline for manuscript submissions

closed (1 June 2021)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/53532](https://mdpi.com/si/53532)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)