



## Modeling Building Energy and Environmental Systems in the Built Environment

Guest Editor:

**Dr. Mohammad Heidarinejad**

Department of Civil,  
Architectural, and Environmental  
Engineering, Illinois Institute of  
Technology, Chicago, IL 60616,  
USA

[muh182@iit.edu](mailto:muh182@iit.edu)

Deadline for manuscript  
submissions:

**30 November 2021**

### Message from the Guest Editor

This Special Issue focuses on recent advances in modeling building energy and environmental systems in the built environment. The scope of this Special Issue entails modeling building energy and environmental systems at different scales ranging from the building components (e.g., blinds, light fixtures) to city-scale modeling. This issue welcomes submissions that verify and validate their models with measured data or on-site collected data. Possible topics of interest are:

- Developing next generation of building energy and environmental systems modeling tools to design, operate, and retrofit buildings
- Establishing novel building energy modeling techniques to account for the building scale, urban scale, district scale, and city scale
- Leveraging building information modeling (BIM), geographic information system (GIS), industrial foundation classes (IFC), digital twins, or similar tools to model building energy and environmental systems in the built environment
- Advancing our modeling techniques to quantify impacts of occupancy patterns and behaviors in residential and commercial buildings





an Open Access Journal by MDPI

## 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

## 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. The journal publishes original research articles, reviews, conference proceedings (peer-reviewed full 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.

## 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](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

**Journal Rank:** [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

## Contact Us

---

*Sustainability*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
Fax: +41 61 302 89 18  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[@Sus\\_MDPI](https://twitter.com/Sus_MDPI)