

## Special Issue

# Beyond Energy Efficiency in Architecture. New Challenges and Research Trajectories for Buildings and the Built Environment

### Message from the Guest Editors

Over the last few decades, energy efficiency and lower environmental impact of buildings have been at the forefront of building design, geared towards the goal of low carbon energy transition. Significant progress has also been made in the design approaches with the introduction of BIM and advanced modelling tools. This Special Issue aims to focus on frontier research in the construction sector and to trace the outlines of emerging trends. Contributions can include but are not limited to the following topics: (1) Experimental and modeling studies; (2) Implementation and development of high-performance building technologies and components; (3)

Conservation/refurbishment/improvement/mitigation and adaptation strategies for various contexts; (4) Forecasting scenarios of energy/environmental consumption and/or impacts utilizing multi-scale, multi-criteria, multi-objective analysis. We look forward to receiving your contributions. Prof. Dr. Andrea Giovanni Mainini

---

### Guest Editors

Prof. Dr. Tiziana Poli

Dr. Andrea Giovanni Mainini

Prof. Dr. Gabriele Lobaccaro

Prof. Dr. Mitja Košir

Dr. Juan Diego Blanco Cadena

---

### Deadline for manuscript submissions

closed (28 February 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/52776](https://mdpi.com/si/52776)

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

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

[appls](https://appls.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )