



## Energy Efficiency in Buildings and Innovative Materials for Building Construction

Guest Editors:

**Prof. Dr. Cristina Cornaro**

Department of Enterprise Engineering (DII), University of Rome Tor Vergata, Rome, Italy

**Prof. Dr. Cinzia Buratti**

Department of Engineering, University of Perugia, 06125 Perugia, Italy

Deadline for manuscript submissions:

**closed (31 October 2019)**

### Message from the Guest Editors

Dear Colleagues,

The main topics of the Issue will be regarding energy efficiency in buildings and the use of innovative materials for design and retrofit to pursue the goal. In developed countries, energy consumption in buildings comprises 20%–40% of the total energy use, and is above industry and transport in EU and USA. For this reason, energy efficiency strategies have become a priority in energy policies, with new regulations and certification schemes, including minimum requirements. This could be allowed by means of different approaches, among which energy saving in buildings will be essential in order to make a sustainable energy future possible.

The following are some of the topics proposed for this Special Issue (but not limited to):

- Retrofit of buildings for energy efficiency
- Control and management of buildings for energy efficiency and thermal comfort (model predictive control)
- Innovative materials for building construction
- Green and sustainable materials for buildings
- New efficient and sustainable buildings
- Historical buildings conservation, energy management, and comfort





an Open Access Journal by MDPI

## Editor-in-Chief

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

## 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.

## 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, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)