Special Issue

Energy Efficient Envelope Technologies for Green, Healthy and Comfortable Buildings

Message from the Guest Editors

The increasing demand for energy-efficient, healthy, and comfortable buildings has created growing interest in the development of novel envelope technologies able to positively contribute to the reduction of the energy demand and GHG emissions, while assuring a high level of indoor/outdoor environmental quality. In this framework, R&D has been pushed to develop new concepts and materials. Among the various solutions and technologies that have been recently proposed, it is possible to cite novel insulation materials and components. Topics of primary interest include, but are not limited to, the following:

- Super insulating materials (SIM)
- Advanced integrated facades
- Adaptive façades
- Smart glazings
- Phase change materials applied to building construction elements
- Advanced and switchable coatings
- Thermal and moisture buffering materials
- Ventilated façades
- Low environmental impact materials
- Nanomaterials

Guest Editors

Prof. Dr. Marco Perino

TEBE research group, Department of Energy, Politecnico di Torino, 10129 Torino, Italy

Dr. Stefano Fantucci

Politecnico di Torino, Department of Energy, TEBE research group, Corso Duca degli Abruzzi, 24, 10129 Torino, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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

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