

Special Issue

Assessing the Performance of Passive Houses in Mediterranean Climate Regions

Message from the Guest Editor

Since the birth of the *Passivhaus* standard in the early 1990s, many authors have reported on the very low energy consumption and excellent indoor environmental conditions achieved during the operation of these passive dwellings. Despite the fact that the design suggestions were initially thought to satisfy the needs of cold climates, the standard proved to be flexible in its application, and guidelines have been released for the design of buildings located in warm and humid climates as well. However, the implementation of such measures has sometimes not proved to be adequate to guarantee the achievement of the standard design goals. This Special Issue aims to explore how and to what extent the implementation of both passive strategies (such as the application of reflective coatings, shading devices, heat storage technologies) and active strategies (hybrid ventilation, absorption and ground source heat pumps, other low-energy systems) can help solving the cooling issues typical in Mediterranean climates, including not only countries facing the Mediterranean Sea but also areas such as coastal California, central Chile, south-western coast of Australia and some parts of New Zealand.

Guest Editor

Dr. Vincenzo Costanzo

Department of Civil Engineering and Architecture (DICAR), University of Catania, Via Santa Sofia 64, 95125 Catania, Italy

Deadline for manuscript submissions

closed (31 December 2019)



Sustainability

an Open Access Journal
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Impact Factor 3.3
CiteScore 7.7



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

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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

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