



Exploiting the Potential of Passive Envelope Technologies for Improving the Building Thermal Performance in the Warm Season

Guest Editors:

Dr. Rosa Francesca De Masi

Department of Engineering,
University of Sannio, Piazza
Roma, 21, 82100 Benevento, Italy

Dr. Margherita Mastellone

Department of Architecture,
Università Degli Studi di Napoli
Federico II, Via Forno Vecchio 36,
80134 Napoli, Italy

Dr. Silvia Ruggiero

Department of Engineering,
University of Sannio, 82100
Benevento, Italy

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Message from the Guest Editors

This Special Issue focuses on passive building technologies aiming to optimize building thermal behavior and envelope energy balance, thus considering evaporative, convective, and radiative cooling effects, contextualized with respect to the indoor needs and the outdoor environment. For instance, the potential of phase change materials, cool coatings, green roofs and walls, shading systems, photochromic thermochromic glasses, vented facades, adaptive or responsive building elements and so on can be usefully exploited, standing alone or in an integrated and systemic way, by using numerical evaluation methods or experimental analysis (in-field or in-lab).

The research fields of this Special Issue of the journal *Sustainability* are useful for systematizing a series of punctual information available in the scientific literature and worthy to be deepened. They will be useful for outlining common guidelines for architects, engineers and building designers and for identifying new variables for the implementation of smart and sustainable cities.





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Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
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