

Special Issue

Sustainable Materials for Thermal and Noise Insulation of Buildings

Message from the Guest Editors

Energy efficiency plays a very important role in the design of a building, both in order to improve the interior comfort of the occupants and to fulfill increasing requests for energy saving, as dictated by the increasingly stringent standards at national and international level. The thermal insulation properties of opaque walls and glazing systems have become a fundamental requirement in the building design step: the nearly zero energy buildings (NZEBs) have the ultimate aim of limiting heat losses and to reduce energy consumption for buildings' conditioning. However, in a period in which global warming, the lack of non-renewable energy sources, and the greenhouse effect are the main topics, adequate knowledge of environmental issues is required. The energy performance of the building envelope and the reduction of energy consumption in heating and cooling, which can be achieved by introducing innovative eco-sustainable materials and/or raw materials, could play a fundamental role in the control of global warming and climate change.

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