Special Issue

Advanced Materials for Energy Performance Improvement in Buildings

Message from the Guest Editor

Buildings use about 40% of global energy and they emit into the atmosphere approximately 35% of GHG. Buildings also offer the greatest potential for achieving ever higher levels of energy efficiency and significant GHG emission reductions in developed and developing countries. There is an increasing need of encouraging energy efficiency in buildings, enhancing green technologies, and promoting advance thermal energy storage solutions. To improve energy efficiency and environmental performance in both new and existing building studies and to develop research on advanced materials and new technologies to be applied to the building envelope are required. The construction sector needs innovative materials and systems based on heat storage, thermal insulation, and the use of renewable energy customized for the current and future reality of the construction market.

Guest Editor

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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

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