Special Issue

Advanced Low Carbon Energy Systems for Built Environment

Message from the Guest Editor

The building sector is responsible for about 38% of energy-related CO2 emissions worldwide, mainly due to heating and cooling of rooms and domestic hot water consumption. Such a figure also measures the potential for reducing non-renewable energy consumption. Several actions can be implemented in both existing and new construction buildings. Aside from interventions on the building envelope (passive), advanced energy systems (active) focus on high efficiency in terms of the Primary Energy Ratio (PER) concerning the carbon efficiency of national energy systems in different countries. Solutions for heating/cooling generation, distribution, emission, and ventilation, as well as innovative Al-based control systems, are considered.

Guest Editor

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Deadline for manuscript submissions

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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 multidimensional network.

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