



Energy Performance in Sustainable Architecture Design

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In an effort to reduce carbon emission in the sector, sustainable architecture designs have been widely implemented in the building sector. A wide range of sustainable building designs have emerged in the past around the world to mitigate the environmental challenges in various regions. However, co-ordinations and more detailed studies are urgently required to ascertain the effectiveness of each of these architecture measures/designs in achieving their aims.

This Special Issue aims to extend the analysis on the energy performance of various types of sustainable architecture design measures by focusing discussions on the following areas (among others):

1. State of the art of sustainable architecture designs and technological measures;
2. Energy-efficient passive design approaches;
3. Sustainable building materials;
4. Whole-life cycle analysis;
5. Experimental and simulation analysis of designs/measures;
6. Sustainable architecture designs for all types of building applications;
7. Energy performance studies of designs/measures.

I look forward to your contribution.





Editor-in-Chief

Prof. Dr. David Arditi

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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