Special Issue

Development of Energy-Efficient Solutions for Smart Buildings

Message from the Guest Editor

The building sector is one of the main contributors to final energy consumption, with 104.9 exajoules globally, and it is still highly dependent on the consumption of oil products and natural gas, resulting in a high production of greenhouse gas emissions. Thus, in this scenario, it is essential to study innovative and advanced technological solutions that can contain the energy consumption of buildings while ensuring high indoor environmental quality. This Special Issue on the "*Development of Energy-Efficient solutions for Smart Buildings*" aims to collect high-quality scientific papers varying from innovative HVAC and lighting systems solutions to smart and green building proposals. The Special Issue welcomes papers on the following topics: HVAC systems solutions; Lighting systems solutions; HVAC and lighting control systems; Building simulation; Smart and green buildings; Sustainable and innovative materials; Climate change; Renewable energy sources for buildings; Thermal and visual comfort; Heat transfer in multilayer building components; Daylight harvesting; HVAC control strategies; Urban building energy modeling; Smart solutions; Case studies.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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