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Innovative Structural Systems and Materials for Energy Efficient Buildings

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Message from the Guest Editors

Improving the energy efficiency of buildings has great potential for reducing carbon emissions and the cost of building operations and is an important strategic goal. Buildings represent a little less than half of energy consumption in the world, and innovative technology and materials applications for energy-efficient buildings allows to reduce energy consumption. The use of innovative structural systems and materials for energy-efficient buildings has become an essential topic of research, allowing us to achieve these goals.

This Special Issue seeks contributions spanning a broad range of topics related but not limited to the following:

- Phase-change materials (PCM) for building applications;
- Technology and materials for green buildings;
- Renewable energy technologies;
- Materials for the building envelope;
- New construction materials and technologies in energy saving;
- Innovative approaches to building refurbishment;
- Innovative and high-performance façades;
- Glass for advanced building envelopes;
- Additive technology for energy-efficient buildings;
- Climate adaptive system and technology.



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Special Issue



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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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