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Thermal Behaviour, Energy Efficiency in Buildings and Sustainable Construction: 4th Edition

Guest Editor:

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Message from the Guest Editor

The Special Issue will include the following topics:

- Thermal behaviour improvement of a building's components (e.g., walls, floors, roofs, windows, doors, etc.);
- Thermal bridges assessment and mitigation;
- Energy efficiency in buildings;
- Thermal inertia increase techniques (e.g., use of PCMs—phase change materials);
- Building location and climate—air temperature, solar radiation, relative humidity, wind speed and direction, ground temperature, daylight hours, and so on;
- Building envelope—air tightness, thermal insulation, glazed openings, shading, and so on;
- Building services—appliances, illumination, heating, air-conditioning, ventilation, heat recover, hot water production, and so on;
- Human factors—occupancy schedule, utilization type, internal heat gains, and so on;
- Passive heating and cooling techniques—natural ventilation, solar heat gains, Trombe walls, ground source heat exchangers, and so on;
- Renewable energy sources for building applications—solar collectors for domestic hot water production, photovoltaic solar panels, wind turbines, and so on.



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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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