

## Special Issue

# Advanced Technology in Net Zero Energy Buildings: Solar and Renewable Energy Applications

### Message from the Guest Editors

A nearly zero energy building (NZEB) can generate energy using renewable resources on site or nearby with very low environmental impact in thermal and hygrometric comfort, but also acoustic and luminous comfort. This Special Issue focuses on bioclimatic design solutions intergrated in buildings; solar energy sources and advanced technology systems, energy storage and harvester systems, and system solutions, including evolutionary algorithms and neural theory based on soft computing techniques in NZEB. Possible submissions are not limited to these topics, and papers related to intelligent methods applied to buildings and urban environment are also welcome.

- Energy-efficient methods in residential, commercial, public, and industrial buildings
- Building safety and intelligent solutions
- Energy technologies and solar energy integration in buildings and urban environments
- Thermal energy
- Advanced models for solar energy
- Intelligent IoT systems applied to buildings and urban environment
- Sensors and artificial intelligence in solar energy systems and forecasting
- Integration of appropriate building technologies into the architectural designs

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### Guest Editors

Dr. Grazia Lo Sciuto

Dr. Paweł Kowol

Dr. Zygmunt Kowalik

Dr. Marek Kciuk

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### Deadline for manuscript submissions

closed (30 April 2024)



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## Editor-in-Chief

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