Special Issue

Advances in Energy-Harvesting Technologies and Applications

Message from the Guest Editors

The application of wireless sensor networks in smart cities, smart industries, smart agriculture, smart homes, smart healthcare, and smart grids is constantly growing. Wireless sensor nodes are the building blocks for constructing wireless sensor networks. Recently, energy-harvesting technology has been developed to solve this issue. Small- or micro-scale energy harvesters convert solar/light energy, thermal energy, vibration energy, wind energy, wave energy, etc., into electrical energy.

This Special Issue encourages researchers to publish original research articles, review articles, and other papers, which are concerned with modeling, novel structures, high-performance materials, power management circuits, and applications of various energy harvesting systems. Potential topics include but are not limited to the following:

- Modelling and characterization of energy harvesting systems
- Photovoltaic cells
- Thermal cells
- Vibration energy harvesters
- Wind energy harvesters
- Wave energy harvesters
- Hybrid energy-harvesting systems
- Power management circuits
- Self-powered wireless sensor nodes
- Sensors, data acquisition, analysis and monitoring

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About the Journal

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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