

Special Issue

Design and Analysis of Energy Harvester

Message from the Guest Editors

Energy harvesting is a process by which ambient energy (e.g., solar energy, thermal energy, kinetic energy, electromagnetic field energy, and so on) is captured and converted into electrical energy which would otherwise be wasted. Energy harvesters provide very small amounts of power, ranging from nanowatts to milliwatts, which can be used to power wireless devices such as wearables and wireless sensor networks. Therefore, the design and analysis of energy harvesters is a topic of vital importance. The major topics of this Special Issue include, but are not limited to, the design and analysis of the following energy harvesters:

- Thermoelectric energy harvesters;
- Electromagnetic energy harvesters;
- Electrostatic energy harvesters;
- Magnetostrictive energy harvesters;
- Energy harvesting from photovoltaic cells;
- Piezoelectric energy harvesters;
- Energy harvesters for wearables;
- Biochemical energy harvesting;
- Energy harvester integrated self-powered sensor systems;
- Power management systems for energy harvesters;
- Materials for energy harvesters;
- Other energy harvesters.

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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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