Special Issue

Innovations and Applications in Piezoelectric Energy Harvesting

Message from the Guest Editors

Piezoelectric energy harvesting technology incorporates the special properties of piezoelectric materials to efficiently convert mechanical energy from the environment to power microelectromechanical systems and other low-power electronic devices, reducing dependence on traditional power sources and environmental pollution. IResearch on piezoelectric energy harvesting technology aims to develop flexible, stable, and reliable energy harvesters through theoretical design, modeling, and application research, so as to obtain a better output performance and higher flexibility, as well as expanding its application boundary. Topics include, but are not limited to, the following:

- Nonlinear dynamics in energy harvesting;
- Adaptive structures and innovative mechanisms;
- Metamaterials and metastructures;
- Energy conversion and storage materials;
- Sensor/energy harvester;
- Self-powered sensors/actuators/systems;
- Nonlinear interface circuits;
- Power management for energy harvesting;
- System integration and intelligence;
- Energy storage and management systems;
- Wind, wave, and tidal energy;
- Other topics related to dynamics, vibration, and energy harvesting.

Guest Editors

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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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