Special Issue

Recent Trends of Piezoelectric Energy Harvesting for Powering Wireless Sensors

Message from the Guest Editors

In recent years, the piezoelectric energy harvesting technique has presented a promising solution to power wireless sensors. This technique can easily scavenge energy from ambient vibrations and has the advantages of a high-power density, low cost and small scale. However, the power outputs from the existing piezoelectric energy harvesting methods are still insufficient for continuous monitoring applications. Therefore, much research has been dedicated to improving piezoelectric energy harvesters. This Special Issue seeks to showcase recent advances in piezoelectric energy harvesting, encompassing both research papers and review articles. The range of topics that can be addressed is as follows: 1) novel piezoelectric materials for energy harvesting, 2) innovative structural design for piezoelectric energy harvesters, 3) highly efficient interface circuits, 4) realization of piezoelectric self-powered sensors, 5) novel application environment and 6) theoretical modeling of piezoelectric energy harvesters.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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