

Special Issue

Nano Energy, Nano System and Sensors

Message from the Guest Editors

With ubiquitous and pervasive sensing as the next Internet of Things paradigm, the energy systems driver for such technologies requires highly efficient harvesting materials, mechanisms, architectures, and circuits. Whilst the traditional energy harvesting applications were restricted to industrial high frequency driven piezoelectric systems, newer technologies, and approaches, such as triboelectrics, thermoelectrics, and radio-frequency harvesting have resulted in sensors and low-power energy systems which are inherently energy-frugal. It is an open field of research that is drawing efforts from nanotechnology, materials science, low-power electronics, signal processing, and sensing communities to develop the next generation of self-powered sensing systems. This Special Issue of *Sensors* aims to provide a state-of-the-art status of the energy harvesting and self-powered technologies field. Topics include but are not limited to the following:

- Theory, design, modeling, fabrication, experimental characterization and application of energy harvesting systems
- Design, modeling and validation of power management circuits
- RF energy harvesting
- Self-powered embedded sensor systems

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Message from the Editor-in-Chief

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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