

Sensors and Materials

Special Issue on Micro Energy Harvesting and Storing Technologies

Call for Papers

Energy harvesting from ambient energy for the purpose of powering low-powered electronics has emerged during the last decade as an enabling technology for self-powered devices. With the rapid development of low-power-consuming electronics and the need to provide wireless solutions for powering numerous sensors, some micro energy harvesters scavenging vibration, wind, solar, thermal, and fluid energies have been reported for realizing the self-powered sensors and systems. However, the major challenge is the low output power and low energy conversion efficiency for micro energy harvesters. This special issue will focus on the state-of-the-art micro energy harvesting technologies, including the structural design, advanced materials, and some novel applications.

Scope:

- Converting mechanisms, such as piezoelectric, electrostatic, electromagnetic methods, and so on
- Self-powered sensors
- Advanced materials development for energy harvesters
- Structural optimization
- Advanced circuit design
- Energy storage technologies

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Guest Editor: Bin Yang (Shanghai Jiao Tong University)

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