Special Issue on On-Site Energy

Call for Papers

On-site energy is a key technology in modern electronics, robotics, medical science, and other related fields. The increasing demand for distributable micropower supplies for smartphones, personal computers, and artificial organs exemplifies the importance of on-site energy. Moreover, micropower supplies for operating active RF-ID, sensor network systems, and so on are essential to Internet of Things (IoT), which will create new styles of business and services. In this special issue, we will review the state-of-the-art research and development of on-site energy. Topics broadly range from materials development, device fabrication and evaluation, to peripheral devices and circuits.

Scope:

- Materials development and device fabrication/evaluation of energy harvesters driven by mechanical, optical, thermal, and other forces.
- Materials development and device fabrication/evaluation of micropower supplies such as thin-film batteries, fuel cells, biological cells, and so on.
- On-site energy not limited to the above.
- Peripheral devices and circuits for on-site energy generators.

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