

Sensors and Materials

Special Issue on Universal Power Supply Technologies for Trillion Sensors Era

Call for Papers

By the 2030s, trillions of sensors will have been installed in our surroundings and intelligent edge nodes will communicate each other to improve productivity, enhance value-added services, and increase the quality of our lives. One of the main obstacles to realizing this vision is powering the sensors. Since it is impractical to deploy powerlines to all the sensors or to change their batteries periodically, alternative power supply technologies are needed. While many types of energy harvesting technologies have been developed such as photovoltaic, piezoelectric, and thermoelectric technologies, with some of them meeting specific market needs, more universal technologies will be focused on to some extent in the coming decades. This special issue will focus on state-of-the-art power supply technologies, including energy harvesting, wireless power transfer, and disposable batteries.

Scope:

- Energy harvesting technologies
- Disposable batteries with low environmental impact
- Wireless power supply technologies acting from a distance
- Passive wireless sensors
- Multimodal and/or hybrid power supply devices, and so forth

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Guest Editor: Keiji Takeuchi (NTT Data Institute of Management Consulting, Inc.)

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(Attention)

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If you have any questions, please feel free to contact the editorial staff at the address below.

Editorial Department of *Sensors and Materials*

MYU K.K.

1-23-3-303 Sendagi, Bunkyo-ku, Tokyo 113-0022, Japan

Tel: +81-3-3821-2930, Fax: +81-3-3827-8547

E-mail: myukk@myu-inc.jp

