

Special Issue

Self-Powered Devices and Systems

Message from the Guest Editor

Sensor networks are essential for the development of the Internet of things and smart city. A general sensor, especially the mobile sensor, has to be driven by a power unit. Considering the high mobility, wide distribution, and wireless operation of the sensors, their sustainable operation remains a critical challenge owing to the limited lifetime of an energy storage unit. The concept of self-powered sensors and systems means to harvest the ambient energy for continuously driving a sensor without the use of an external power source, which aims to ensure the sensors can continuously work for a long time and without maintenance. So, self-powered sensors and systems are the inevitable trends for the future development of sensing technology. Accordingly, this Special Issue seeks to showcase research papers, and review articles that focus on novel developments in energy harvesting technology, active sensing technology, battery technology, and so on to promote self-powered sensors and systems into actual applications.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2023)



Micromachines

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Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



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