

## Special Issue

# Passive Wireless and Self-Powered Wireless Sensors and Systems

### Message from the Guest Editors

Passive wireless sensors are a type of device that perform sensing and signal transmission when they are activated by external stimuli. Representative devices include piezoelectric resonators, LC resonators, surface acoustic wave resonators, etc. Self-Powered Wireless Sensors, on the other hand, are a class of devices and systems that can work without relying on an external power supply. These devices may provide either electrical signal output to form self-driven sensors or energy to form self-powered sensor systems. This Special Issue aims to provide an opportunity to address the aspects of simulation, design, materials, fabrication and applications of Passive Wireless and Self-Powered Wireless Sensor systems from both academic and industrial perspectives. Contributions that include novel sensor design, operation principles, energy collection, energy collection circuits and innovative sensors based on new concepts such as parity-time symmetry or coherent perfect absorption, etc., are particularly encouraged. **Keywords**

- self-powered sensors
- passive sensors
- energy harvesting
- wireless sensors
- resonant sensors
- piezoelectric sensors
- wearable self-powered sensors

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2023)



## Sensors

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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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### Editor-in-Chief

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