Special Issue

Energy-Harvesting Technology for Stand-Alone Self-Sustainable Sensor System

Message from the Guest Editor

This Special Issue deals with the progress in the design, modeling, and performance evaluation of the novel energy-harvesting technology for stand-alone sensor systems. The stand-alone self-sustainable energy-harvesting technology has good potential for measuring physical or chemical quantities in harsh environments and for applications requiring sensing devices with low fabrication costs, small size, and long-term measurement stability. We invite authors to contribute original research articles, as well as review articles, sustaining the continuing efforts towards innovative solutions for stand-alone self-sustainable sensors. Potential topics of this Special Issue include, but are not limited to:

- Stand-alone self-sustainable systems
- Battery-less system
- Energy harvesting
- Printed circuits
- RF, microwave, and millimeter-wave sensors
- RF back-scattering sensors
- Design techniques and fabrication processes for autonomous sensors
- Remote sensing systems and radars

Guest Editor

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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