

Special Issue

Recent Advances in RF Rectifying Technology for EM Energy Harvesting and Wireless Power Transfer

Message from the Guest Editors

Radio frequency (RF) rectifying technology plays a vital role in electromagnetic (EM) energy harvesting and wireless power transfer applications. This Special Issue aims to gather and showcase the latest research and breakthroughs in RF rectifying technology for EM energy harvesting and wireless power transfer. We invite researchers from academia and industry to contribute their original research articles, reviews, and case studies on the following topics but not limited to:

- Novel RF rectifying circuit designs for efficient energy conversion;
- Wideband and broadband rectennas for multi-frequency energy harvesting;
- Adaptive and reconfigurable rectifying systems for enhanced power transfer efficiency;
- Integration of rectifying technology with energy storage devices;
- Efficient rectifying techniques for low-power and IoT applications;
- Optimization approaches for maximizing energy harvesting from RF sources;
- Advanced materials and fabrication techniques for RF rectifiers;
- RF energy harvesting in challenging environments and scenarios;
- Wireless power transfer using RF rectifying metasurface;

Guest Editors

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Deadline for manuscript submissions

closed (15 March 2025)



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About the Journal

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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