

Special Issue

Advancements in High-Performance RF Transceiver Technology: Innovations and Applications

Message from the Guest Editors

This Special Issue aims to present the latest research, breakthroughs, and future directions in the field of radio frequency (RF) transceiver design and applications. With the exponential growth in wireless communication systems, Internet of Things networks, satellite communication, and next-generation standards like 5G and 6G, RF transceivers play a pivotal role in enabling seamless connectivity, higher data rates, and enhanced spectrum utilization. This Special Issue seeks to highlight advancements in both theoretical research and practical implementations that push the boundaries of RF transceiver technology. The purpose of this Special Issue is threefold:

- Innovate and inform: To showcase novel methodologies, architectures, and materials that significantly improve the performance of RF transceivers in terms of efficiency, linearity, bandwidth, and integration.
- Bridge gaps: To connect academic research with industrial applications, providing solutions to real-world challenges.
- Encourage collaboration: To foster collaboration among researchers, engineers, and industry professionals in addressing complex design issues and exploring emerging trends.

Guest Editors

Dr. Pei Qin
Dr. Haoshen Zhu
Dr. Shuyan Zhu

Deadline for manuscript submissions

closed (15 February 2026)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).