

## 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.

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### Guest Editors

Dr. Pei Qin

Dr. Haoshen Zhu

Dr. Shuyan Zhu

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### Deadline for manuscript submissions

15 February 2026



## Electronics

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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.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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