

Special Issue

Advanced Microwave and Millimeter-Wave Integrated Circuits and Passive Components for Next-Generation Wireless Systems

Message from the Guest Editors

The rapid evolution of wireless communication, sensing, radar, satellite, and emerging AI-enabled connectivity systems has significantly increased the demand for high-performance microwave and millimeter-wave technologies. The Special Issue will bring together researchers and industry practitioners working on state-of-the-art circuit architectures, device technologies, design methodologies, and system-level implementations that address the challenges of next-generation RF and millimeter-wave applications. By bringing together contributions from CMOS, GaAs, GaN, and SiGe HBT communities, the collection seeks to promote cross-fertilization of ideas and accelerate technological innovations for applications spanning 5G/6G communications, satellite systems, radar, automotive sensing, wireless power transfer, and emerging high-frequency platforms. The proposed collection will therefore provide readers with a broader perspective on emerging design trends, comparative technological advantages, and future research directions, serving as a valuable reference for both academic researchers and practicing engineers working in advanced RF and millimeter-wave electronics.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Journal of Low Power Electronics and Applications is an open access journal which provides an advanced forum for rapid dissemination of innovative research and important results in all aspects of low power electronics and design.

It publishes reviews, regular research papers and short communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. The full experimental details must be provided so that the results can be reproduced.

Editor-in-Chief

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