Special Issue

Millimeter-Wave/Terahertz Integrated Circuit Design

Message from the Guest Editors

Since these frequency bands are getting close to the fmax of active devices, the available gain from the active devices declines rapidly at these frequencies. Transmission in these two frequency bands also faces greater challenges than transmission in low GHz radio frequency (RF) and microwave frequency bands. Hence, there is a strong need for investigation of the fundamentals and practicalities in mm-wave and THz integrated circuit design. In this context, this Special Issue offers a premier interdisciplinary platform for researchers to disseminate their results in areas of mm-wave and THz integrated circuit design to a diverse audience. To that end, we invite authors to submit their research papers and comprehensive reviews in the following or related topics:

- Novel integrated circuit design for mm-wave and THz applications.
- Mm-wave and THz transceiver array.
- On-chip mm-wave and THz antenna.
- Oscillators and frequency synthesizers.
- Heterogeneous integration of CMOS and compound semiconductor circuits.
- Integrated mm-wave and THz radar sensors.
- Chip packaging for mm-wave and THz band
- Modeling for mm-wave and THz circuit and device.

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2025)

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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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