

Special Issue

Advancements and Applications of Millimeter Wave and Terahertz Vacuum Electronic Devices

Message from the Guest Editors

Recently, numerous technological breakthroughs have been achieved in millimeter wave and terahertz components, sources, detectors, sensors, and related applications. Millimeter wave and terahertz technologies have been brought from laboratory demonstrations to industrial applications, such as non-destructive inspection and testing, security scanning, electromagnetic biology effect, medical imaging, disease diagnostics, recognition of protein structural states, measurement techniques for materials science and characterization, monitoring of ultrafast dynamics, short-range communications, etc. In order to support more emerging applications, efforts are being made around the world to continuously develop technologies, with a focus on radiation sources, detectors, sensors, imaging arrays, spectrometers, system integrations, and so on.

This Special Issue aims to collect original research and review articles focused on the latest research advances, applications, and new challenges in the field of millimeter wave and terahertz radiation sources, detectors, sensors, and imaging.

Guest Editors

Prof. Dr. Yubin Gong

School of Electronic Science and Engineering, University of Electronic Science and Technology of China, Chengdu 610054, China

Prof. Dr. Zhigang Lu

School of Electronic Science and Engineering, University of Electronic Science and Technology of China, Chengdu 611731, China

Deadline for manuscript submissions

31 December 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/189006

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

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



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 guest-edited 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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

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).