

Special Issue

Advances in Solid-State Single Photon Detection Devices and Circuits

Message from the Guest Editors

This Special Issue is aimed at addressing issues that are involved in the design, fabrication, and characterization of solid-state optoelectronic devices and circuits under the single-photon detection regime.

This includes:

- Single-photon detection;
- Single-photon avalanche photodiodes (SPADs);
- Geiger-mode avalanche photodiodes (GmAPDs);
- Multi-pixel photon counters (MPCCs);
- Photomultipliers (PMTs);
- Superconducting nanowire photodetectors (SNSPDs);
- Ultraviolet/Visible/Infrared;
- GaN/Silicon/InGaAs/HgCdTe;
- Focal plane arrays (FPAs);
- Active quenching circuits (AQC);
- Time-to-digital converters (TDCs);
- Read-out integrated circuits (ROICs);
- Time-correlated single-photon counting (TCSPC);
- Single-photon-imaging signal processing;
- Single-photon detection circuits;
- Three-dimensional imaging (LiDAR);
- Quantum information processing.

Guest Editors

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Deadline for manuscript submissions

closed (15 January 2025)



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.

Editor-in-Chief

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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).