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Advances in Solid-State Single Photon Detection Devices and Circuits

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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.

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Message from the Editor-in-Chief

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