

## Special Issue

# Photodetectors and Sensors for Particle Identification and New Physics Searches

### Message from the Guest Editors

Photodetectors with high quantum efficiency, single photon detection capability, and excellent time resolution have been developed and widely used in recent decades. Microchannel plate photodetectors (MCP-PMT) have seen significant increases in their lifetime in recent years. Silicon photomultiplier (SiPM) technology is increasingly used for various applications, due to its low cost, compactness, and immunity to the magnetic field. In organic photodetectors, optoelectronics properties can be tuned to optimize photon detection by controlling the molecular structure. Organic-based devices offer several advantages, such as low-cost processes and mechanical flexibility. Other technologies, such as quantum sensors and ultrafast photodetectors are developing rapidly. These photodetectors and sensors require dedicated development when they need to survive in a high radiation environment. Prospective authors are invited to submit articles on topics including, but not limited to, the following:

- Sensor technology and application
- Sensor devices
- Advanced material of sensing
- Optoelectronic and photonic sensor
- Micro- and nanosensor

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 December 2024)



## Sensors

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### Editor-in-Chief

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