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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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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