Special Issue

Advances in Particle Detectors and Radiation Detectors

Message from the Guest Editors

Over the last few decades, particle and radiation detectors have experienced important technological advancements with the incorporation of new materials, front-end electronics, and data acquisition systems. Silicon and germanium sensors support a wide range of applications, including photonics, high-energy physics, medical imaging, environmental monitoring, and nuclear non-proliferation. The radiation hardness of CVC diamond makes it particularly suitable for ion beam flux monitoring, synchrotron x-ray imaging, and ultrafast radiation detection. The silicon carbide material exhibits excellent thermal stability and spectroscopic properties for physics measurements at high beam luminosity. The Special Issue on “Advances in Particle Detectors and Radiation Detectors” covers cutting edge developments on sensor materials and signal processing as a response to the technological challenges imposed by today’s fundamental scientific research and its societal applications.

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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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