

Special Issue

Advanced Optoelectronic and Photonic Devices for Next-Generation Sensing and Communication

Message from the Guest Editors

Sensing and communication are two key technologies of Internet of Things (IoT). With the popularization of terminal devices and the explosive growth of data volume, there is an urgent demand for advanced sensors and communication devices with ultra-small size, ultra-high performance, ultra-fast response, and ultra-low power consumption. As Moore's Law gradually approaches its physical bottleneck, optoelectronic and photonic devices are regarded as the building blocks for next-generation information systems. In recent years, optoelectronic and photonic devices based on novel structures such as nanowires, quantum dots, two-dimensional materials, metamaterials, and perovskites have shown great potential in sensing and communications. The aim of this Special Issue is to compile original research and review articles on the topics of advanced optoelectronic and photonic devices for sensing and communication systems. Research on theoretical analysis, structure design, device fabrication, and system application of optoelectronic and photonic devices are all welcome.

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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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