Special Issue

Nanowire-Based Devices for Sensing Applications

Message from the Guest Editors

Advances in nanomaterials and nanofabrication techniques have enabled the development of technological platforms for chemical and optical sensors relevant for various applications, such as environmental air quality monitoring. In particular, devices based on one-dimensional nanostructures such as nanowires and nanorods have attracted considerable attention due to excellent performance, high surface-to-volume ratio, and suitability for the realization of miniaturized sensors and multifunctional sensor systems. This Special Issue of *Sensors* will focus on recent developments in the field of nanowire-based device technologies for sensing applications. We welcome reviews and original research articles that focus on advances in synthesis and growth, fabrication processes and technologies, nanomaterial properties, surface functionalization techniques, device integration concepts, multifunctional nanomaterials, new key enabling technologies, advanced characterization techniques, in situ and in operando measurements, sensing mechanisms, and device performance improvements that are relevant for the sensor technology communities.

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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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