Special Issue

Advanced Optoelectronic Sensors and Sensing Technology Based on Low-Dimensional Materials

Message from the Guest Editors

In recent years, a number of low-dimensional materials, represented by two-dimensional (2D) material, have been discovered that exhibit many characteristics that are absent in conventional bulk or thin-film materials. Extremely thin thickness enables the background carriers to be easily suppressed by a local electric field and enables performance enhancement by introducing a local light field with artificial micro–nano structures. Furthermore, novel physical and optoelectronic properties enable some new kinds of functional devices that dramatically reduce the dark current and associated noise and provide new ideas for advanced optoelectronic sensors and sensing technology. This Special Issue will be an overview of the research progress in low-dimensional material optoelectronic sensors and sensing technology. For more details, please visit here.

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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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