Special Issue

Advanced Two-Dimensional Materials-Based Sensors

Message from the Guest Editors

Two-dimensional materials (graphene, MoS2, Black Phosphorus et.) in combination with nano-fabrications can enable high performance sensors or novel sensors with new functionalities, opening a wide range of applications. Two-dimensional materials can be the building blocks for various types of sensors, such as photodetectors, strain/pressure sensors, gas sensors, etc. Two-dimensional-based sensors can also be enlarged by creating two-dimensional heterostructures. Two-dimensional heterostructures can be produced by combining 2D with 3D/2D/1D/0D structures. This Special Issue aims to introduce two-dimensional materials in combination with nano-fabrications. Topics in general include, but are not limited, to:

- Two-dimensional materials/heterostructures-based sensors: 2D material growth, transfer, fabrication, device prototype and demo;
- Two-dimensional materials/heterostructures as photodetectors;
- Graphene or other 2D materials-based strain/pressure sensor with high sensitivity;
- Two-dimensional materials as bio-sensors;
- Two-dimensional materials for acoustic or thermal sensing 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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