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Nanomaterials-Based Sensors

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Message from the Guest Editors

1D nanostructures, such as nanowires, quantum wires, nanorods, and their composites, are attracting wide scientific interest due to the unique properties associated with their one-dimensional geometry. 1D nanostructures, with diameters reaching the quantum regime, still remain at the front of both scientific research and the development of nanotechnology applications. The aim of this Special Issue is to provide selected contributions on recent advances in the field of nanowire research and application in sensing. It includes topics on the most important developments in the field of 1D nanostructure synthesis, property investigations, and applications as sensors: gas, chemical, bio, light, magnetic, strain, etc. Original work and critical reviews are welcome.

- 1D-nanostructures;
- Nanowire synthesis for sensing
- Nanowire-based sensor fabrication and characterization
- Composite nanowire materials for sensing
- Hybrid sensors;
- 1D field effect transistors
- Photochemical sensors;
- Electrochemical sensors
- Gas sensors;
- Magnetic, piezo, and strain sensors



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Special Issue



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Message from the Editor-in-Chief

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