Special Issue

Advanced Nanomaterials for Sensing

Message from the Guest Editors

Advanced nanomaterials (organic or inorganic), such as graphene, 2D carbides and nitrides (MXenes), metalorganic framework (MOF), nano-heterostructures (coreshell, 3D branch-like, etc.) and so on, represent an ultrasensitive platform for developing next-generation sensing devices. In particular, their unique functional properties, such as high surface-to-volume ratio, porosity and exceptional physical/chemical properties, allow the selective detection of various chemical analytes, such as VOCs, environmental pollutants, biomolecules, etc. This Special Issue focuses on the synthesis, characterization and exploration of the functional properties of these advanced nanostructured materials for sensing applications. Moreover, the reports on novel strategies (surface functionalization. metal particle decorations, doping, etc.) that are used to enhance the performance of traditional sensing materials, such as nanostructured metal oxides, are also welcome. Keywords: gas sensors; biosensors; optical sensors; metal oxides; nanostructures; graphene; metal-organic framework (MOF); MXenes; heterostructures; core-shell structures; self-assembly

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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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