Special Issue

Applications of Advanced Nanomaterials in Sensor Devices (2nd Edition)

Message from the Guest Editor

Nanomaterials could be classified into diverse categories according to their physical and chemical properties, dimensionality, production procedures, compositions, and homogeneity. Particularly, processing, morphological control, and the physiochemical properties of nanomaterials always affected each other's performances. Due to their nanoscale dimension and high surface-to-volume ratio, advanced nanomaterials have the capacity to show a series of exceptional properties, such as chemical, mechanical, optical, and magnetic ones. Very recently, researchers began to pay a lot of attention to the design and synthesis of diverse nanomaterials, such as organic, inorganic, and organic–inorganic hybrid ones with controllable geometry, morphology, and topology, and aimed to explore various academic and industrial applications such as sensing devices. Interestingly, during this research and development, scientists now focus a lot on the mechanisms of thus obtained sensor devices, like "details behind the scene", as announced often in a lot of sounded mysterious or scientific fiction.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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