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Various sensing techniques such as nanoscaled electrochemical detection, functional nanomaterial-amplified optical assays, colorimetry, fluorescence and electrochemiluminescence, as well as biomedical diagnosis applications, e.g. for cancer and bone disease, are thoroughly reviewed and explained in detail.

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Nanomaterials are one of the most studied materials because at this level unique optical, magnetic, electrical and mechanical properties emerge. These emergent properties have attracted the attention of users in various applications such as catalyst, gas sensors, batteries, optoelectronic devices, biomedical and agricultural applications [5-9].

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Superhydrophobic properties of the surface are achieved by nanopatterning, which constitutes another area of application of nanomaterials in the design of plasmonic sensors.

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Nanomaterials play an important role in the fabrication of chemosensors and biosensors, due to their unique physical and chemical properties, such as large surface area/volume ratio, good conductivity, excellent electrocatalytic activity and high mechanical strength. We review recent advances in the applications of these nanomaterials in potentiometric sensors.

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Applications of nanomaterials in potentiometric sensors ...

Resistive chemosensors using nanomaterials have enabled novel inexpensive and non-invasive applications for health and safety, such as breath analyzers, sweat test diagnostics, and other personalized medicine and protection tools. Selfpowered nanosensor devices relying completely on hybrid nanowire technology are envisioned for the near future.

Nanomaterials for Sensing Applications

The excellent recognition and selectivity offered by this class of materials towards a target analyte have found applications in many areas, such as separation science, analysis of organic pollutants in water, environmental analysis of trace gases, chemical or biological sensors, biochemical assays, fabricating artificial receptors, nanotechnology, etc.

Nanomaterials | Special Issue : Nanomaterials in Sensors

Sensor played a huge role in the field of preventing the fire explosion accident, atmospheric environmental testing, and the industrial production of poisonous and harmful gas detection.

Nanomaterials for Sensing Applications

Nanomaterials are well known to possess excellent electrical, optical, thermal, catalytic properties and strong mechanical strength, which offer great opportunities to construct nanomaterials-based sensors or devices for monitoring environmental contaminations in air, water and soil. Various nanomaterials, such as carbon nanotubes, gold nanoparticles, silicon

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~~Nanowires and~~ quantum dots, have been extensively explored in detecting and measuring toxic metal ions, toxic gases, pesticides, and ...

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Common applications for sensors made using nanocrystalline materials are ice detectors on aircraft wings, smoke detectors, automobile engine performance sensors, etc. Automobiles with Greater Fuel Efficiency Existing automobile engines waste substantial amounts of gasoline, thus adding to environmental pollution by burning the fuel incompletely.

~~The Applications of Nanomaterials—AZoM.com~~

the properties of nanomaterials to develop sensors to detect and quantify—including analytes chemical and biological substances and nanomaterials—and support development of the resulting sensors into integrated devices for use in environmental, health, and safety assessments.

~~Nanotechnology for Sensors and Sensors for Nanotechnology ...~~

Nanoscience as a whole has many potential applications in the defense and military sector-

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including chemical detection, decontamination, and forensics. Some nanosensors in development for defense applications include nanosensors for the detection of explosives or toxic gases.

Nanosensor – Wikipedia

Recently, enzymatic glucose sensors are incorporated with nanomaterials to enhance electron transfer rates. These nanomaterials include the nanoparticles of noble and transition metals, the nanostructured metal-oxides or metal-sulfides, conductive polymers, carbon nanotubes, and graphene.

Significance of nanomaterials in electrochemical glucose ...

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Nanomaterials based wearable sensors have already marked their presence with a significant distinction while nanomaterial based wearable actuators are still at their embryonic stage. This review looks into the contribution of nanomaterials and nanocomposites to wearable technology with a focus on wearable sensors and actuators.

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