Special Issue

Latest Advances in Nanobiosensors: Novel Materials and Applications

Message from the Guest Editors

This Special Issue focuses on the advancement and development of biosensors based on nanostructured materials contributing to innovative biosensing platforms. The applications portfolio includes clinical diagnostics, veterinary diagnostics, environmental monitoring, food analysis, and other biochemical and biological analysis.

- Nanostructured materials
- Nanoporous materials
- Metamaterials
- Photonic and plasmonic nanocrystals
- Electrochemical biosensors
- Optical biosensors
- Nanomechanical biosensors
- Piezoelectric biosensors
- Nanoplasmonic biosensors
- Surface-enhanced Raman spectroscopy biosensors
- Nano-interferometer and nano-resonator based biosensors
- Nanoparticle-based biosensors
- Lateral flow biosensors
- Fluorescence-based biosensor
- Multiplexed/multi-analyte detection
- Lab-on-a-chip
- Point-of-care
- Organ-on-chip
- Organoids
- Environmental monitoring
- Food analysis
- Gas analysis
- Healthcare
- Tissue engineering

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