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Latest Advances in Nanobiosensors: Novel Materials and Applications

Guest Editors:

Dr. Gerardo Arturo López Muñoz

Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Prof. Dr. Javier Ramón Azcón

1. Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology, Baldiri I Reixac, 10-12, 08003 Barcelona, Spain
2. ICREA-Institució Catalana de Recerca i Estudis Avançats, 08010 Barcelona, Spain

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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
- Tissue engineering

Special Issue



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Editor-in-Chief

Prof. Dr. Nicole Jaffrezic- Renault

Institute of Analytical Sciences,
UMR CNRS 5280, Department
LSA, 5 Rue de La Doua, 69100
Villeurbanne, France

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Chemosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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