



Nanomaterials in Chemosensors and Biosensors: Development and Application

Guest Editor:

Dr. Marko Spasenovic

Center for Microelectronic
Technologies, Institute of
Chemistry, Technology and
Metallurgy, University of
Belgrade, Njegoševa 12, 11000
Belgrade, Serbia

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Message from the Guest Editor

The emergence of engineered nanomaterials has opened doors to novel applications in numerous fields, including healthcare, engineering, manufacturing, aerospace, construction, automotive and others. The large surface-to-volume ratio of nanomaterials is well-suited to targeted functionalization as well as sensing. Chemosensors' and biosensors' specificity and sensitivity can be tailored via changes in the engineering nanomaterial shape, size, composition and surface chemistry. Nanomaterial biosensors have applications in healthcare diagnostics, food freshness and bioprocessing, among other areas. Materials falling under this category, including metal, metal oxides, carbon nanotubes, 2D materials, polymers, proteins or nanocomposites, can have a varied composition. Chemosensors can be used to detect gases and liquids for applications in environmental protection, industrial automation and safety. This Special Issue covers all aspects of such materials, ranging from theoretical considerations explaining the working principles of materials to their synthesis, characterization and application.





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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

Message from the Editor-in-Chief

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Chemosensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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