

Special Issue

Synthesis and Sensor Applications of Hybrid Bionanomaterials

Message from the Guest Editors

The design and synthesis of structure- and function-specific nanomaterials has made great contributions to the development of novel sensors and biosensors for various applications in biomedicine, food analysis, environmental monitoring, gas sensing, and others.

Recently, more efforts have been made to create hybrid bionanomaterials for promoting their sensor applications. For instance, many biological molecules like DNA, proteins, peptides, enzymes, viruses, and biopolymers have been combined with other functional nanomaterials such as carbon nanotubes, graphene, graphene-like two-dimensional materials, nanoparticles, quantum dots, and some others to form functional hybrid bionanomaterials, which have also shown wide applications for the fabrication of electrochemical, electronic, fluorescent, spectroscopic, colorimetric, and mechanical force sensors for the detection of metallic ions, drugs, small molecules, biomacromolecules, cells, cancer biomarkers, and gases.

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Deadline for manuscript submissions

closed (31 May 2021)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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