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Advanced Functional Materials for Biosensor Applications

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Deadline for manuscript submissions:
closed (20 January 2025)

Message from the Guest Editors

Biosensors are typically constructed from a diverse range of functional materials to facilitate assay and ensure the requisite standards of reproducibility, biocompatibility, sensitivity, selectivity, and affordability are met.

These functional materials constitute a category of engineered and advanced materials designed and synthesized for specific purposes, with unique surface structures and tailored physico-chemical properties, playing, therefore, a key role in enhancing the performance of biosensors.

This Special Issue aims to supply a platform for publishing original high-quality research papers and comprehensive reviews related to the design, synthesis, and characterization of advanced functional materials and their application in biosensing. Topics of interest include, but are not limited to, the following:

- Biosensors;
- Advanced functional materials for biosensors;
- Bioassays development;
- Inorganic functional materials for biosensing;
- Organic functional materials for biosensing;
- Nanocomposite-based functional materials for biosensors;
- Sustainable nature-based functional materials;
- Nanomaterials and nanostructures;
- Polymers;
- Biomolecular compounds.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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