

Special Issue

Nano-Biointerface for Biosensing

Message from the Guest Editor

Point-of-care biosensor nanodevices have shown tremendous potentialities to revolutionize future personalized health-care diagnostics and therapy practices. With the rapid growth of nanotechnology, there has been an increased interest toward the development of engineered nanomaterials that can be used for triggered interactions with biological surfaces. In particular, nanomaterials-based biosensors play an increasing role in the construction of biosensing systems for different biological molecules (enzymes, antibodies, proteins, etc.). Functionalized nanomaterials, due to their unique and tunable electrochemical and optical properties, are being used as immobilization platforms, catalytic tools, optical and electroactive labels to enhance biosensing characteristics with the goal to obtain high sensitivity, stability, and selectivity. This Special Issue deals with the fundamentals of nanomaterials-based biosensors, addressing the different components of transducers, such as electrochemical, optical, piezoelectric, thermal, surface plasmon resonance, and their response at the hybrid biointerface.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2019)



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



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[applsci](https://doi.org/10.3390/applsci)





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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.

Editor-in-Chief

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