Special Issue

Current Trends in Nanostructured Biosensors

Message from the Guest Editor

In recent years, biosensors devices made with different materials and working with different modes have attracted particular interest due to their multiple applications, from clinical labs, to food analysis, environmental applications, protein engineering, drug discovery, and security applications. The purpose of this Special Issue is to bring into focus this important research area and advances of biosensors and, more specifically, those related to nanoscale dimensions of metal nanoparticles, metal oxide nanoparticles, metal and carbon quantum dots, graphene, carbon nanotubes, nanowires, nanocomposites, nanoporous anodic alumina, mesoporous silica, porous silicon, and polystyrene nanochannels, that expand sensitivity and integrate several novel transduction principles such as enhanced electrochemical, optical, catalytic activity, and superparamagnetic properties. This Special Issue aims at collecting both reviews and recent papers on this topic.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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