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Trends in Electrochemical Nanosensing

Guest Editor:

Dr. Yanhu Wang

Shandong Analysis and Test
Center, Qilu University of
Technology (Shandong Academy
of Sciences), Jinan 250014, China

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Message from the Guest Editor

Dear Colleagues,

Increasing evidence has shown that specific biomarkers are helpful for the early detection, prognosis, and efficient evaluation of cancer. Highly sensitive sensing technologies (based on biomarkers derived from cerebrospinal fluid, blood, saliva, urine, or tissues and organs) can effectively measure and identify changes in clinically meaningful outcomes.

Nanomaterials are receiving increasing interest in sensing applications. There have been countless reports about cancer diagnostics composed of nanomaterials that demonstrate their unique and advanced properties, which make them extremely useful in diagnosing diseases. In particular, electrochemical nanosensing, as a promising method, has gained much attention in the analytical community by inheriting the advantage of being highly sensitive.

In this Special Issue, entitled “Trends in Electrochemical Nanosensing”, topics include, but are not limited to, the following: design and engineering of functional electrochemical materials, label-free and label-based electrochemical bioassays, electrochemical sensing devices, and detection modes.

Dr. Yanhu Wang

Guest Editor



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Special Issue



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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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.

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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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