



Nanoarchitectonics for Biosensing Applications

Guest Editor:

Dr. Omar Azzaroni

Instituto de Investigaciones
Fisicoquímicas Teóricas y
Aplicadas (INIFTA), Universidad
Nacional de La Plata–CONICET,
La Plata 1900, Argentina

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Message from the Guest Editor

Biosensors and biosensing technologies have grown rapidly because of the continuous and ever-expanding practical needs of medicine and healthcare practice. Nanoarchitectonics has played a key role in the development of optimized biosensing platforms. Nanoarchitectonics has been widely used as a key enabling technology for integrating predefined molecular functionalities, including electrochemical, optical, catalytic, or biological properties into biosensing devices, which provides exciting opportunities to design, assemble, and fabricate tailored nanosystems and nanodevices to enable new sensing strategies for a wide variety of molecules of clinical interest.

The present Special Issue titled “*Nanoarchitectonics for Biosensing Applications*” aims to present the current trends in biosensor development using nanoarchitectonics as a design concept. In the present Special Issue, we are inviting contributions from leading groups in the field to show the latest progress in this ever-growing area of science and technology.





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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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