



Optical Biosensors: Technology, Development and Applications

Guest Editors:

**Prof. Dr. Hugo Enrique
Hernandez-Figueroa**

Department of Communications (DECOM), School of Electrical and Computer Engineering (FEEC), University of Campinas (UNICAMP), Campinas, SP 13083-852, Brazil

**Dr. Jorge Ricardo Mejía-
Salazar**

National Institute of Telecommunications, Santa Rita do Sapucaí, Minas Gerais 37540-000, Brazil

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is devoted to present the current evolution of optical biosensors for the sensitive and specific detection of biomolecules (analytes) taking into account technological and development aspects, such as novel photonic transducers (either based on optical fibers or integrated circuits), signal processing techniques, mathematical and numerical analysis of sensitivity and specificity limits and other sensing characteristics, and innovative fabrication and measurement techniques. Novel classical and quantum principles, advanced materials and metamaterials will also be considered. Finally, it is strongly desirable that the optical biosensors presented and discussed in this Special Issue should exhibit features compatible with the Point-of-Care or Lab-on-a-Chip concepts and visions, and suitable to be used for a number of applications such as medical diagnosis, food safety, environmental control, homeland security, drug discovery, and many others.

Prof. Dr. Hugo Enrique Hernandez-Figueroa
Guest Editor





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
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