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Nanotechnology Applications in Sensors Development

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Message from the Guest Editors

Dear Colleagues,

Nanotechnologies have established new scenarios for the use of optical methods in sensing applications. The miniaturization of matter provides interesting and unique optical properties, enabling the development of new sensing schemes and devices.

This Special Issue aims to offer an overview of the recent advances in the use of nanotechnologies for the development of optical sensors and their applications. Contributions that address but are not restricted to the following topics are welcome:

- semiconductor quantum dot technology for sensor development
- metallic nanoparticles and nanorods for biosensing
- up-converting nanophores
- nanosensors for in vitro bioanalysis
- nanotechnologies for Raman, SERS, and SEIRA sensing
- fluorescence-based nanosensors
- DNA-based nanosensors
- multimodal nanosensors
- plasmonic nanosensors
- ...





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Message from the Editor-in-Chief

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