



Nanoparticles-Based Sensors

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Message from the Guest Editors

Dear Colleagues,

One of the major challenges to be resolved by researchers is the design and development of reliable high sensitivity and low-cost sensors using novel nanoparticulate materials. The low dimensionality of nanoparticles results in excellent physicochemical properties, allied with their unique spectral and optical properties, have prompted the development of a plethora of (bio)sensing platforms. Nanoparticle-based sensors are gaining advantages in low cost point-of-care analysis of real samples, which involves complex sample matrices and even the need for wireless communications. For that reason, this Special Issue is intended to provide the most recent research results and emerging concepts in the challenging world of nanoparticles-based (bio)electrochemical sensors. The Special issue faces facile, sustainable scalable fabrication of nanostructured surface-based sensors using cutting-edge techniques such as screen or 3D printing technologies, looking for improving selectivity, fast response, long-term stability, and biocompatibility. Applications of nanomaterial-modified sensors for detection of relevant compounds in different fields.





sensors



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Message from the Editor-in-Chief

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