Special Issue

Nanomaterial-Based Sensors: Design, Development and Applications

Message from the Guest Editors

This Special Issue aims to explore the advances and challenges in integrating nanomaterials into (bio)sensing applications from the macro- to the nanoscale. Advanced materials offer the advantage of providing better sensing capabilities in terms of accuracy, reliability, sensitivity, and reproducibility. A variety of nanostructured materials, such as carbon materials (MWCNTs, graphene, quantum dots, etc.), metal nanoparticles, nanocomposites, conductive polymers, and so on, present exceptional attributes such as providing platforms for immobilization, catalytic properties, and optical and electroactive labels. Consequently, sensors based on nanomaterials overcome some analytical limitations and increase the scope of target analyte detection, including pharmaceuticals, biomolecules, environmentally hazardous heavy metals, pesticides, and pollutants at the micro- and nanolevel. We welcome the submission of original research articles, short communications, and reviews featuring recent advances and developments in chemical (bio)sensors, microfluidic devices, lab-on-achip, organ-on-a-chip, and sensor arrays, in which the integration of nanomaterials is a key element.

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Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry.

Chemosensors is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

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