

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-a-chip, organ-on-a-chip, and sensor arrays, in which the integration of nanomaterials is a key element.

Guest Editors

Dr. Alicia Gomis-Berenguer

Institute of Electrochemistry, University of Alicante, 03080 Alicante, Spain

Dr. Ana Casanova

CEA-Leti, 38054 Grenoble, France

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Chemosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
chemosensors@mdpi.com

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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.

Editors-in-Chief

Prof. Dr. Jin-Ming Lin

Beijing Key Laboratory of Microanalytical Methods and Instrumentation,
Department of Chemistry, Tsinghua University, Beijing 100084, China

Prof. Dr. Nicole Jaffrezic-Renault

Institute of UTINAM, University of Franche-Comté, UMR-CNRS 6213, 16
Gray Road, 25030 Besançon, France

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