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Nanomaterials Based on Bio/Chemical Sensors

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Message from the Guest Editor

With the increased use of nanotechnology in many fields including sensors, bioanalytical, medical diagnosis devices, environmental, and emerging applications, there is a great demand for the fabrication of novel nanoscale materials to enhance their physicochemical, catalytic, and electronic properties as well as the overall sensing device performance. Nanomaterials, nanocomposites and hybrid materials, including metals and metal oxide nanoparticles, quantum dots, carbonous (e.g., graphene, graphene oxide, and carbon nanotubes), polymeric, metal organic frameworks (MOFs) and supramolecular have been successfully integrated into fabrication of bio/chemical sensors, which has led to a rapidly expansion of these materials in many applications. Current efforts in the fabrication, functionalization and engineering of these nanomaterials focus on the tuning and tailoring of their physicochemical, spectroscopic, electrical, mechanical, and thermal properties, which can significantly enhance the sensitivity, stability, selectivity, and performance of the bio/chemical sensors for various applications.

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