Special Issue

Advanced Nano-Based Chemsensors and Biosensors for Detective Application

Message from the Guest Editors

The quantitative detection of various analytes exhibits an increasing tendency toward broader application. The sensing techniques covered mostly optical and electrochemical transducers. The transducing options can function together with suitable nanomaterials to improve analytical performances, including metallic and metal oxides, carbon-based materials, metal-organic frameworks, carbon dots, nanocrystals, and photon up-converting particles. Usually, these nanomaterials can be used as supporters for the efficient immobilization of biomolecules, reporters for signal output, and modifiers for improving the surface area and enhancing the conductivity of the sensing interface. Contributions to this Special Issue should cover advances in nano-based chemosensors and biosensors for detective applications, such as electrochemistry, fluorescence, colourimetry, surface plasmon resonance and so on. The analytes include metal ions, nucleic acids, proteins, enzymes, viruses and small molecules.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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