Special Issue

Functional Nanomaterial-Based Electrochemical Sensors

Message from the Guest Editor

This Special Issue (SI) on "Functional Nanomaterial-Based Electrochemical Sensors" aims to highlight the pressing need for the design and application of novel nanomaterials in this domain. The integration of functional nanomaterials, including metal oxides, carbon-based materials, nanocomposites, and hybrid structures of varying functionalities and geometries, offers immense potential to push the boundaries of current sensing technologies. Moreover, control over their preparation and design allows us to tune their respective physio-electrochemical properties. We encourage submissions that explore new materials and their roles in enhancing the performance of electrochemical sensors, addressing challenges such as selectivity, long-term stability, low-cost fabrication, and scalability for real-world applications. This SI invites original research and reviews focused on the synthesis, characterization, and innovative use of nanomaterials in electrochemical sensors for chemical and biological analyte detection. Papers that address the development of cost-effective and sustainable nanomaterials for large-scale, reliable sensor deployment are of particular interest.

Guest Editor

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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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