Special Issue

Nanostructured Electrochemical Sensors: From Materials Design to Application Development

Message from the Guest Editor

The development of electrochemical sensors is a rapidly growing and popular area. In recent years, electrochemical sensors have attracted a great deal of attention in chemical and biological studies due to their high sensitivity, simplicity and reliability. Electrochemical sensors, as important analytical devices, are widely used for the determination of a broad range of analytes in several fields, including food control, environmental monitoring, clinical analysis, and process control. The new generation of sensors based on nanomaterials has attracted much attention in recent years because of their important advantages over traditional devices. As a rule, such sensors can be easily miniaturized, flexible, and have various shapes. Nanomaterial-based sensors also fit perfectly into the current development of analytical sciences that led to the production of complete maintenance-free, durable, and reliable ion sensors. We aim to cover recent advances in the design, fabrication of nanostructured electrochemical sensors, as well as the application of sensors in various analytical tasks including their use in environmental monitoring, healthcare, and biomedical diagnostics.

Guest Editor

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