Special Issue

Plasmonic Sensors: Advances and Applications

Message from the Guest Editors

Over the past three decades, we have witnessed intense research and development activity in the field of plasmonic sensors, driven by their unique characteristics of sub-wavelength confinement and strong light–matter interaction offered by the profound exposure of plasmonic modes to the ambient environment. Plasmonic sensors rely on the excitation of either *propagating* or *localized* plasmonic modes, leading to various types of plasmonic sensing devices including SPR sensors, integrated all-plasmonic or plasmo-photonic sensors and nanoplasmonic sensors. This versatility enables the design of novel devices with extraordinary performance, paving the way for breakthroughs in both fundamental research and practical applications. In this Special Issue, we aim to highlight recent advances in plasmonic sensor configurations, addressing key challenges in enhancing sensitivity, limit of detection, stability, and multiplexed detection while exploring their application in real world scenarios such as medical diagnostics, pharmaceuticals, life science research, environmental monitoring, and food safety.

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