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Self-Assembled Plasmonic Biosensors

Guest Editors:

Prof. Dr. Vasanthan Devaraj

Bio-IT Fusion Technology Research Institute, Pusan National University, Busan 46241, Republic of Korea

Prof. Dr. Jin-Woo Oh

Bio-IT Fusion Technology Research Institute, Pusan National University, Busan 46241, Republic of Korea

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Message from the Guest Editors

Biosensors have demonstrated a potential impact in the prevention and detection of diseases at various stage of diagnosis. Plasmonics is the study of the interaction between electromagnetic waves and free electrons in metallic structures. Significantly, rather than opting for high-cost, long-prevailing, painful diagnostic methods, the focus towards plasmonic biosensors has provided numerous alternative advantages. Of these, the most striking features involving plasmonic biosensors include low manufacturing cost in mass production, high distinguishability rate in detection, selectivity and sensitivity based on material choice, nanoscale plasmonic enhancement, multipurpose sensing capabilities, and so This cross-disciplinary aspect results in excellent on. devices. By utilizing the biosensing light-matter interactions at the nanoscale alongside the combination of biomolecular interactions, it is possible to realize highquality sensing devices that can tailor next-generation instruments to display excellent detection capability, reliability, selectivity, and distinguishability at an atomic precision level.



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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

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