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Nanomaterials-Based Biosensor Platforms for Environmental and Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

Recent developments in the field of biosensors using nanomaterials as sensing transducing materials have gained immense importance in recent years because of their physical and chemical properties. Various emerging nanomaterials (eg. MXenes, graphene, graphitic carbon nitride, carbon nanotubes, fullerene, quantum dots and rare earth nanoparticles) as well as hybrid materials, have been used to develop advanced sensitivity, selectivity and representability. Utilizing these materials as central core sensing components, different biosensors platforms have been developed, including nanomaterials-based sensors for aptamer, protein, antibodies, SARS-CoV-2, MARS, electrochemiluminescence, peptide-based sensing, pesticides, biomarkers and SARS (Surface-enhanced Raman Scattering).

This Special Issue highlights the recent advancements in nanomaterial-based biosensors and their potential application in the environmental and biomedical fields. Original research articles and peer review papers (full-length or shorter) are welcome.

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Message from the Editor-in-Chief

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