Special Issue

Nucleic Acid-Based Sensors

Message from the Guest Editors

The unique feature of nucleic acids is that binding to their complementary strands allows for the development of nucleic acid-based signal amplification technologies. Virus DNA detection during the recent COVID-19 pandemic hugely boosted the application of nucleic acid-based diagnoses. By conjugating nucleic acids with other functional modalities such as nanoparticles, florescent probes, proteins and microfluidic chips, the application scope of nucleic acids became more broad. The versatility of nucleic acids renders them extraordinary materials for making sensing and diagnosis systems and devices. This Special Issue, aims to put together original research and review articles on recent advances in technologies, solutions, applications, and new challenges in the field of nucleic acid-based sensing systems. Potential topics include, but are not limited to:

- Nucleic acid-based sensors;
- Nucleic acid-based imaging;
- Nucleic acid-based target detection;
- Nucleic acid-based target quantification;
- Nucleic acid-based diagnosis;
- Nucleic acid-based therapy;
- Nucleic acid-based theranostics.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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