

## Special Issue

# DNA-Based Sensors for Single-Molecule Biology II

### Message from the Guest Editor

This Special Issue of *Sensors* will be dedicated to DNA-based molecular sensors for studying biological processes at the single-molecule level. Molecular biosensors have played a crucial role in understanding biological systems from the single-cell level to tissues and organisms. The detection of individual, single-molecule events in a single cell is necessary to gain insight into the cells' heterogeneity, spatial distribution, noise, sensitivity, and regulation of molecular processes. Research into DNA-based molecular sensors has been exceptionally active, as a result of their "programmable" nature, in the creation of designer structural (e.g., DNA origami), function (e.g., DNAszymes), and detection/imaging (e.g., DNA-PAINT) elements. In this Special Issue, we will feature the most recent progress in this field, from modeling and simulation studies to the development of new constructs of DNA-based sensors, as well as new experimental methods using these sensors for imaging and detection.

### Guest Editor

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### Deadline for manuscript submissions

closed (10 November 2022)



## Sensors

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## About the Journal

### 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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