

Special Issue

Smart Materials and Sensing Strategies for Biomarker Detection

Message from the Guest Editor

- **Design and Development of Smart Biomaterials**
 - Stimuli-responsive polymers, nanomaterials, hydrogels, molecularly imprinted polymers, and bioinspired materials for sensor applications.
- **Advanced Sensing Mechanisms and Platforms**
 - Electrochemical, optical, piezoelectric, and plasmonic sensors; microfluidic and lab-on-a-chip technologies.
- **Surface Functionalization and Biorecognition Interfaces**
 - Strategies for enhancing selectivity and sensitivity using aptamers, antibodies, peptides, and molecular imprinting.
- **Point-of-Care and Wearable Diagnostic Devices**
 - Integration of smart materials into portable, real-time biosensing systems for remote or personalized healthcare.
- **Detection of Diverse Biomarkers**
 - Sensing strategies for detecting nucleic acids, proteins, metabolites, exosomes, and disease-specific signatures across various clinical areas.
- **Translational Research and Clinical Validation**
 - Case studies, performance metrics, and regulatory perspectives for smart sensing platforms in real-world diagnostic applications.

Guest Editor

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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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