Special Issue

Electrochemical and Paper-Based Sensors for Point-of-Care Testing

Message from the Guest Editor

While current biomarker testing is predominantly carried out within centralized pathology laboratories, recent advances in material science, nanotechnology, and biotechnology and their integration within functional, portable microsystems have collectively delivered the potential to decentralize such assays through so-called "point of care" (POC) testing. Due to its portability, costeffectiveness, and rapid response, POC testing is emerging as a future trend in medical diagnostics. With a focus on electrochemical and paper-based sensors, this Special Issue is devoted to fundamental research and translational development as well as the implementation of different types of electrochemical transducers and paper-based sensors for POC testing. Topics may include, but is not exclusively related to:

- Electrochemical sensors and paper-based sensors, including solid-state field effect transistor, advanced material, concept, development, and validation for POC testing;
- Point of care sample processing, including microfluidics, integrated with electrochemical and paper-based sensors;
- Clinical implementation of electrochemical and paperbased sensors for POC testing.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2023)



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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.

Editor-in-Chief

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