

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, cost-effectiveness, 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 paper-based sensors for POC testing.

Guest Editor

Dr. Duy Phu Tran

Future Industries Institute, University of South Australia, Campus Mawson Lakes, Mawson Lakes, SA 5095, Australia

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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