

Topical Collection

Diagnostic Sensors

Message from the Collection Editors

Sensors are essential elements in the healthcare system, where it is necessary to report on key parameters associated with the development, progression, and treatment of specific pathologies. However, as evidenced by the current COVID-19 crisis, many advances are still necessary to meet the needs of a connected, changing, and demanding society. Sensors are now facing important challenges regarding sensitivity and selectivity, response time, simplicity, cost, portability, automation, robustness, and cost, most of them impossible to attain with current technologies and systems. This Topic Collection will highlight the most recent advances in sensor development for the next generation of diagnostic systems, including the following:

- Sensor design and fabrication protocols/technologies
- New transduction methods
- Sensors miniaturization and (bio)functionalization strategies
- Sensors integration in the following:
 - Microanalytical platforms
 - Wearables
 - Microfluidic architectures
 - Electronic components for control of measurement, signal processing, data transmission, powering, etc.

Collection Editors

Dr. Xavier Muñoz-Berbel

Dr. Michele Dei

Dr. Miguel A. Pellitero



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

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Editor-in-Chief

Prof. Dr. Andreas Kjaer
Department of Clinical Physiology, Nuclear Medicine & PET National
University Hospital, Rigshospitalet, University of Copenhagen,
Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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