

Special Issue

Integrated Microfluidic CMOS (imCMOS) Sensors and Actuators for Life Science Applications

Message from the Guest Editor

Recent advances in Integrated Microfluidic CMOS (imCMOS) technologies have attracted the attentions of various life-science applications. This Special Issue covers the recent advances in imCMOS research, including the design and implementation of CMOS chips, microfluidic packaging and biological experiments related to cellular and molecular biology. We invite investigators to contribute original research articles, as well as review articles, to this Special Issue. Potential topics include, but are not limited to:

- CMOS circuit design, modeling, simulation and implementation, post-CMOS processing for life science applications
- Microfluidic packaging of CMOS sensors
- CMOS sensor arrays
- CMOS capacitive sensors for cellular and molecular applications
- CMOS optical sensors
- CMOS impedance sensors
- CMOS ISFET sensors
- CMOS cantilever sensors
- CMOS magnetic sensors
- CMOS nuclear magnetic resonance (NMR) sensors
- CMOS magnetic manipulators
- CMOS dielectrophoretic manipulator
- CMOS electrophoresis manipulators
- High throughput CMOS screening
- Lab-on-CMOS

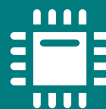
Guest Editor

Dr. Ebrahim Ghafar-Zadeh

Department of Electrical Engineering and Computer Science, York University, 4700 Keele Street, Lassonde Building, 1012D, Toronto, ON M3J1P3, Canada

Deadline for manuscript submissions

closed (1 June 2019)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/12910

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

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.3
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)