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 molecularapplications
- 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

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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.

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