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

Guest Editor:

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Deadline for manuscript submissions:
closed (1 June 2019)

Message from the Guest Editor

Dear Colleagues,

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:

1. CMOS circuit design, modeling, simulation and implementation, post-CMOS processing for life science applications
2. Microfluidic packaging of CMOS sensors
3. CMOS sensor arrays
4. CMOS capacitive sensors for cellular and molecularapplications
5. CMOS optical sensors
6. CMOS impedance sensors
7. CMOS ISFET sensors
8. CMOS cantilever sensors
9. CMOS magnetic sensors
10. CMOS nuclear magnetic resonance (NMR) sensors
11. CMOS magnetic manipulators
12. CMOS dielectrophoretic manipulator
13. CMOS electrophoresis manipulators
14. High throughput CMOS screening
15. Lab-on-CMOS

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Message from the Editor-in-Chief

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