Special Issue

Microwave and Millimeter Wave Devices and Circuits for Sensing and Heating at the Microfluidic Scale

Message from the Guest Editors

This Special Issue of *Sensors* invites contributions at the level of waveforms, devices, and systems. All disciplines are welcome, and contributions may cover scientific, engineering, and technological aspects of novel devices and back-end systems involved in microwave and millimeter wave microfluidic research. Research topics of interest are (but are not limited to):

- Development and evaluation of novel devices for impedance- and resonance-based sensing;
- Development and evaluation of novel devices for heating in biology and chemistry;
- Discovery and integration of waveform shapes for intelligent sensing and efficient heating;
- Development and integration of supporting microwave and millimeter wave circuitry for microfluidic sensors and heaters;
- Integration of high-frequency electrical devices and circuitry with traditional microfluidic and optic setups;
- Development of novel packaging and interconnect technologies for microwave and millimeter wave devices in microfluidics;
- Reports on interactions of high-frequency electromagnetic fields with biological and chemical material samples.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2020)

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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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