Special Issue

Microfluidic Mass Flow and Multi-Parameter Sensors

Message from the Guest Editors

Since the advent of the first micromachined flow sensors in the 1970s, there has been a tremendous development. Whereas the first sensors were mostly based on thermal sensing principles we now see a large range of different operating principles, e.g., anemometric, calorimetric, time-of-flight, measuring pressure drop or drag force, sensors based on Coriolis forces, and ultrasonic sensors. Besides measuring mass flow there is also an increasing demand to measure fluid parameters, such as density and viscosity, and detect fluid composition. This Special Issue covers recent advances in all aspects of microfluidic flow and fluid parameter sensing research, including design and fabrication of the sensor chips, physical working principles, modeling, and simulation, and the measurement setups for their characterization and calibration.

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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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