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# **Microfluidic Mass Flow and Multi-Parameter Sensors**

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#### **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, timeof-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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### Message from the Editor-in-Chief

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