Special Issue

Microfluidic Machines

Message from the Guest Editors

Over the past decade, microfluidics has been witnessing a major progress in terms of fabrication techniques, materials used, and applications. The scope of this Special Issue is on the fundamentals and applications of fluid dynamics in microscale machines. This includes microfluidics for applications in life sciences, manufacturing, pharmaceutical, biomedical tests, biomedical dispensing systems, defense, public health, agriculture, and many other such areas. The scope includes also other types of applications that represent subsets of the above topics such as drug delivery systems, μTAS, point-of-care devices, LoC microsystems, mixing devices, particles and droplets manipulation systems, single cell analysis, phase separators, nanoparticle sources, integration of microelectronics, and integration of photonics. Integration of MEMS, digital microfluidics platforms for automatic test of liquid or two-phase specimens, components for classic and nonclassic actuation within microfluidics, micropumps, optical tweezers, and other alternate solutions to actuation within microfluidics are strongly encouraged. Papers on any other topic related to microfluidics are welcomed.

Guest Editors

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