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Inertial Microfluidics

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

During the past decade, inertial microfluidics has been attracting much attention from researchers in diverse fields, including fluid mechanics, bioengineering, and biomedical sciences. The ability of inertial microfluidics to handle fluids and particles with extremely high-throughput has enabled many practical applications such as cell separation/enrichment, flow shaping, single-cell manipulation/analysis, and unconventional microparticle fabrications. Recently, there have been notable increases in publications for the application of inertial microfluidic techniques in bioanalytical research and medical sample collection and diagnostics. Yet, interesting topics for understanding the underlying physics of inertial microfluidics and the development of novel fluid and particle manipulation techniques are still actively studied to achieve higher throughput and efficiency. This Special Issue seeks original research papers, short communications, and review articles, illustrating the capabilities of inertial microfluidic technology not only for fundamental research but also for diverse applications.

We look forward to receiving your contributions.

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Message from the Editor-in-Chief

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