Acoustofluidics 7 - DTU Orbit (01/04/2019)

Acoustofluidics 7: The acoustic radiation force on small particles

In this paper, Part 7 of the thematic tutorial series "Acoustofluidics – exploiting ultrasonic standing waves, forces and acoustic streaming in microfluidic systems for cell and particle manipulation", we present the theory of the acoustic radiation force, a second-order, time-averaged effect responsible for the acoustophoretic motion of suspended, micrometre-sized particles in an ultrasound field.

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