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Capacitively Coupled Contactless Conductivity Detection (C4D) technique for flow cytometry application

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Capacitively Coupled Contactless Conductivity Detection (C4D) technique for particle detection or flow cytometry has been increasingly interested. This detection technique in microfluidic system utilizes two electrodes, excitation and pick-up electrodes, which are not directly in contact with solution in microchannel. In this study, Particulate of different sizes suspended in DI water were performance and were used in testing the C4D flow cytometry detection. Computational simulation were also carried out to investigate how the detected signal changes with the present of the suspended particulate.

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