Supplementary Material (ESI) for Lab on a Chip

Detection of Viruses with Molecularly Imprinted Polymers Integrated on a Microfluidic Biochip using Contact-Less Dielectric Microsensors

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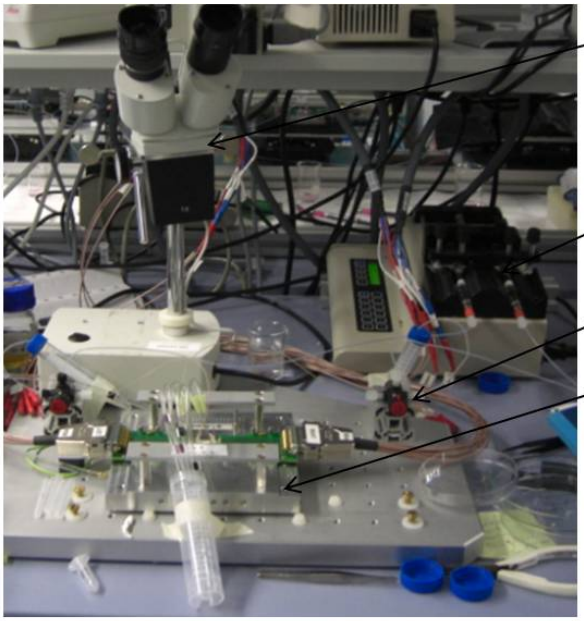
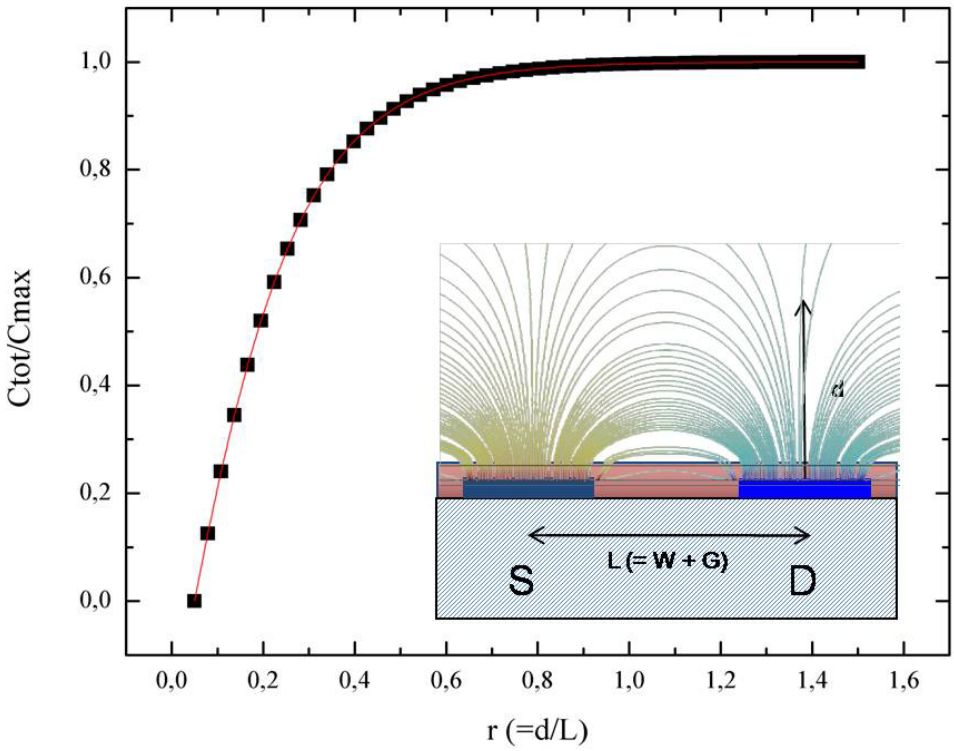
A)

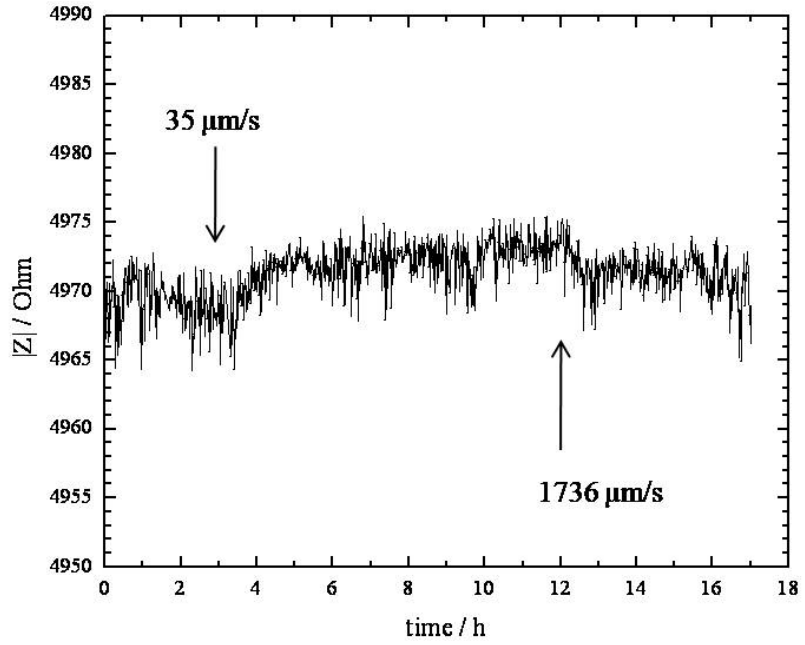


B)

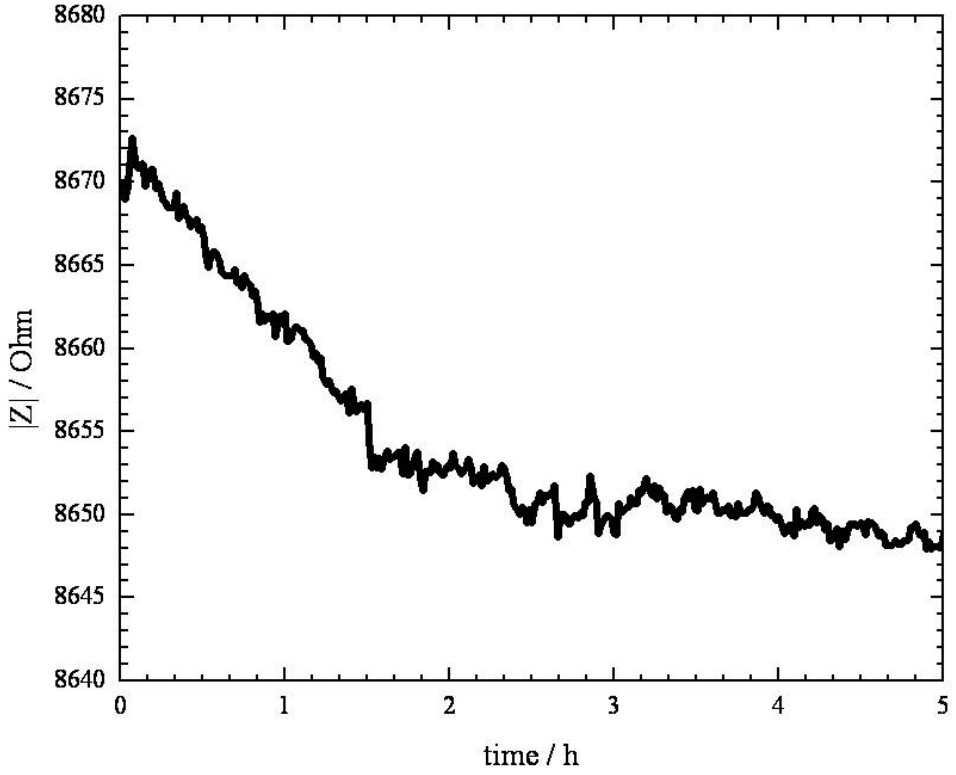
Suppl. Fig.1: (A) Fotograph of measurement set up including syringe pump, microscope, valves, and chip housing. (B) Picture of chip housing , microfluidic biochip and electronic connectors



Suppl. Fig.2: Simulation of electric field distribution above the halve space of the high-density interdigitated electrode structures. Inset shows schematic of electric field lines between two fingers of the μIDC.



Suppl. Fig.3: Impedance signal stability (@ 203 kHz over 17 hours in the presence of increasing shear forces.



Suppl. Fig.4: Swelling effect of MIP