

Supporting information

Ultrasensitive Ag-coated TiO₂ nanotube array for flexible SERS-based optofluidic devices

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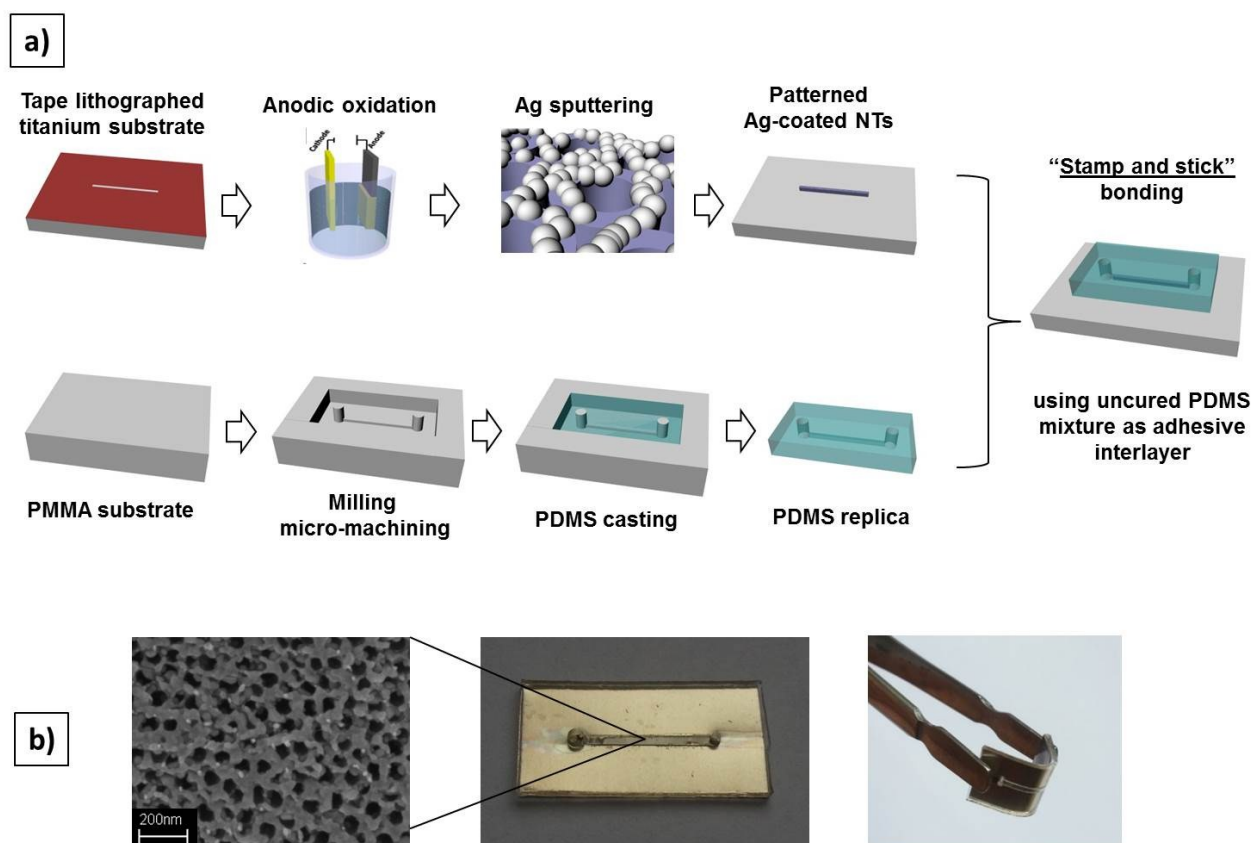


Figure S1. In panel a) the 3D schematic of the optofluidic device fabrication process is presented: Ti foil was masked with Kapton tape, anodized to growth patterned TiO_2 NTs, decorated with Ag NPs by sputtering and used as substrate for microfluidic integration. PMMA master was fabricated by milling machine, replicated by PDMS casting, curing in oven and removal of the replica. The microfluidic cover was bonded with the active substrate by stamp and stick method. The resulting device is shown in panel b).

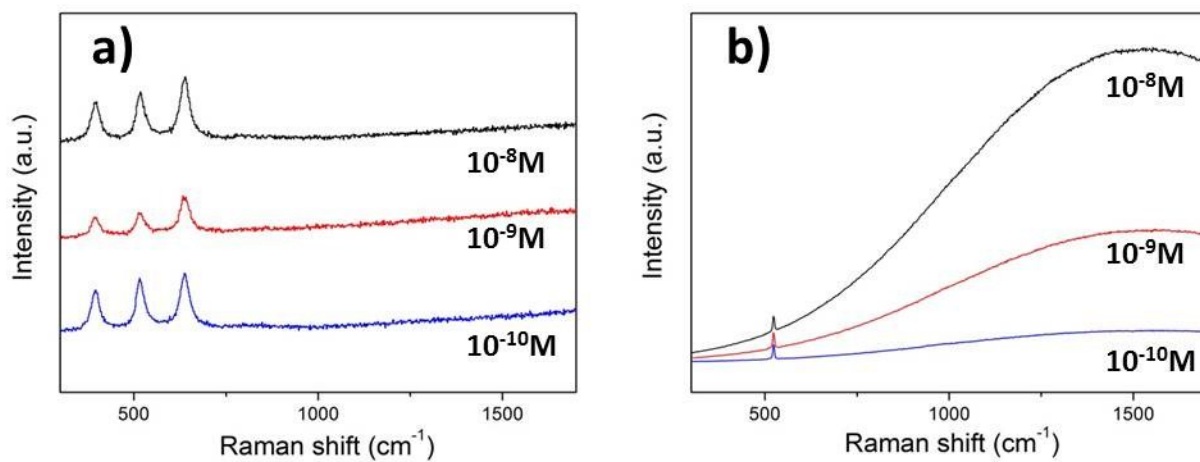


Figure S2. Raman spectra of R6G solution at different concentration collected on TiO_2 nanotubes array (a) and silicon wafer (b).