

Supplementary Materials: Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance

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Wang et al. designed a plasmonic PCF sensor coated with protein A-gold nanoparticles-gold film and experimentally investigated for the detection of immunoglobulin G [21,22]. The gold film with was sputtered onto the surface of the PCF by a magnetron sputtering apparatus. For the fabrication of gold nanoparticles-based Au film PCF sensor, the PCF sensor sputtered with Au film was immersed into metal nanoparticles solution, then rinsed with distilled water and dried with in the air. An SEM image showing the intersecting surface of the as-fabricated sensor is shown in Figure S1.

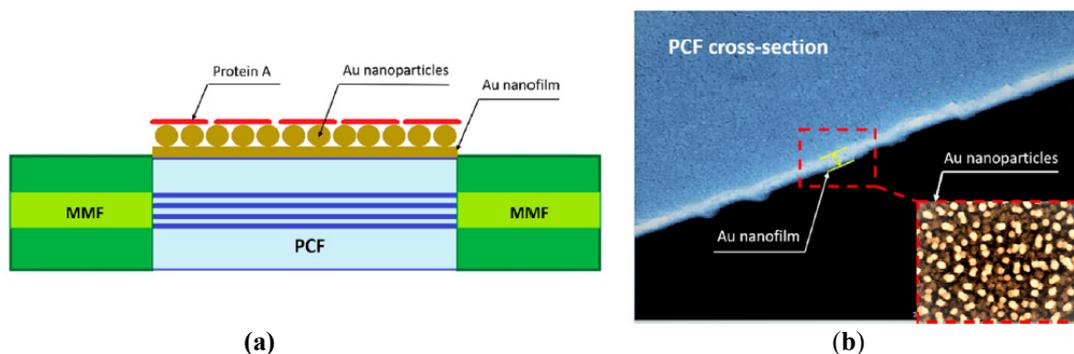


Figure S1. (a) Schematic of the SPR PCF sensor proposed in [21,22]. (b) SEM image of gold nanofilm on the PCF surface.