Supporting Information

Gold Nanorod assisted enhanced plasmonic detection scheme of COVID-19 SARS-CoV-2 spike protein.

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Figure S1. SPR reflectivity curves for Au nanosheet and Au NR system with varied spacing between NR and Au film when the aspect ratio equals to (a) 2 and (b) 3.



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Figure S2. Evanescent decay of the electric field penetrating into the analyte solution from the surface of Au nanosheet along the central line of Au NR at the condition of resonance for (a) AR=2 and (b) AR=3.



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Figure S3. Normal electric field distributions under the resonance condition for Au NR with different aspect ratios and located at various distances from the Au nanosheet for AR=2 (a-e) and AR=3 (f-j).