

Supplementary Information

SERS amplification in Au/Si asymmetric dimer array coupled to efficient adsorption of thiophenol molecules

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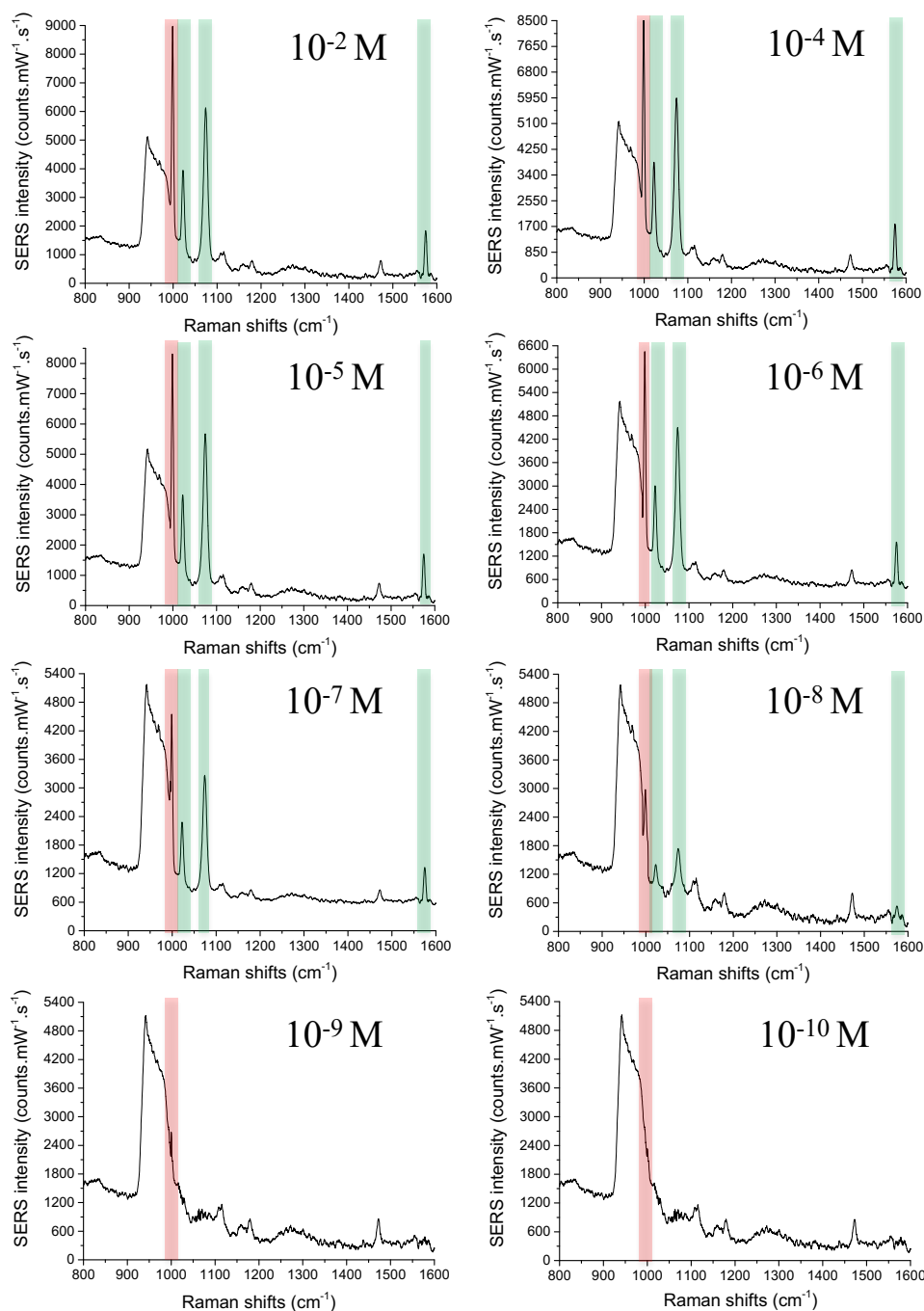


Figure S1. SERS spectra of thiophenol recorded at the excitation wavelength of 785 nm for the concentrations of 10⁻² M and from 10⁻⁴ M to 10⁻¹⁰ M, where the four Raman peaks are displayed, especially the Raman peak at 999 cm⁻¹ which is encapsulated in a red rectangle, and that we have chosen to use for assessing the sensitivity of hybrid asymmetric dimers.

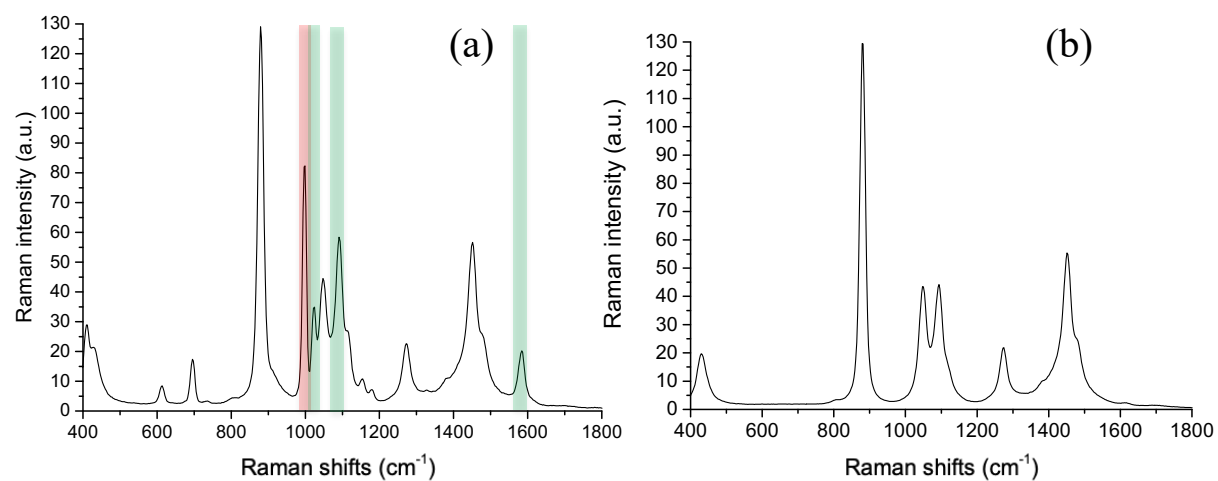


Figure S2. Raman spectra of (a) a thiophenol solution of 1 M (thiophenol + ethanol) and (b) the pure ethanol recorded at the excitation wavelength of 785 nm.