Supporting Information for

High performance SERS active substrates fabricated by directly growing graphene on Ag nanoparticles

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Figure S1. HRTEM image of G/AgNPs nearby interface of graphene and AgNPs.
Figure S2. XPS of G/Ag NPs. (a) C\textsubscript{1s} peak of G/AgNPs. (b) Ag\textsubscript{3d} peak for G/AgNPs.
Figure S3. SERS spectra of $10^{-7}$ M R6G were recorded from bare AgNP substrates stored over a number of weeks under ambient conditions.
Figure S4. Intensity of $10^{-7}$ M R6G recorded from bare AgNP substrates versus stored time based on the measurement at 613 cm$^{-1}$ over 10 weeks. Error bars show the standard deviations.