Supplementary Material (ESI) for Nanoscale
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Supporting Information

Nanocomposites of Size-Controlled Gold Nanoparticles and Graphene Oxide:
Formation and Applications in SERS and Catalysis

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Figure S1: SEM images of the Au nanoparticles (left) and the Au-GO composite (right).
**Figure S2:** SERS spectra of PATP using (a) the 40 nm Au NPs capped with 2-MPy and (b) the corresponding Au-GO composites as SERS substrates, respectively.
Figure S3: UV-vis spectra of aqueous solution of o-nitroaniline and NaBH₄ in the presence of the aggregated Au NPs.
**Figure S4:** UV-vis spectra of aqueous solution of o-nitroaniline and NaBH$_4$ in the presence of the Au/C composites.