

Plasmonic Au nanoparticles supported on both sides of TiO₂ hollow spheres for maximising photocatalytic activity under visible light

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Electronic Supplementary Material

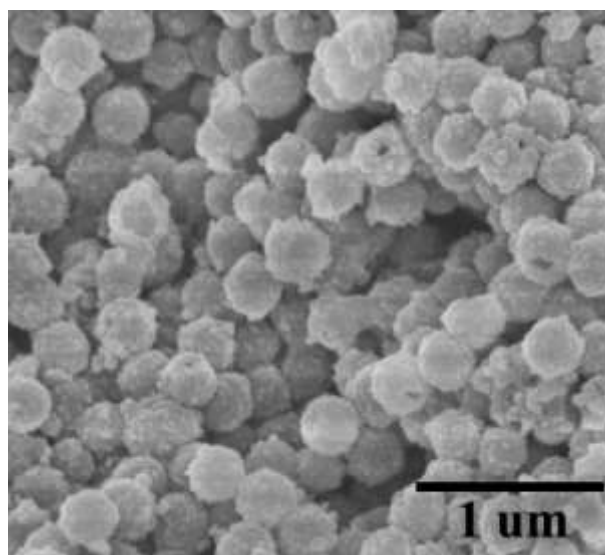


Figure S1. SEM images of pure TiO₂ hollow sphere sample.

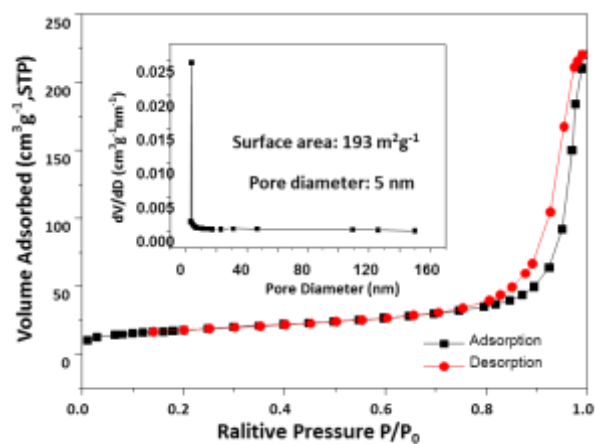


Figure S2. Nitrogen adsorption-desorption isotherms and pore size distribution of yolk-shell Au(TiO₂).

Table S1. BET surface areas of materials.

Materials	$S_{\text{BET}} / \text{m}^2 \text{g}^{-1}$
TiO ₂ HSs	223
Au@TiO ₂	193
Au@Au(TiO ₂)	187
Au@P25	36

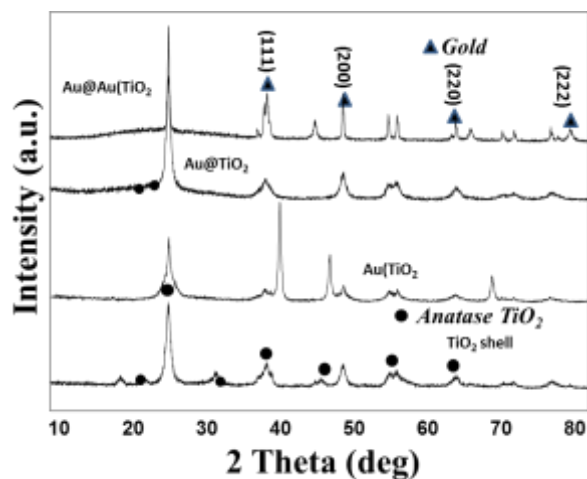


Figure S3. XRD patterns of materials.

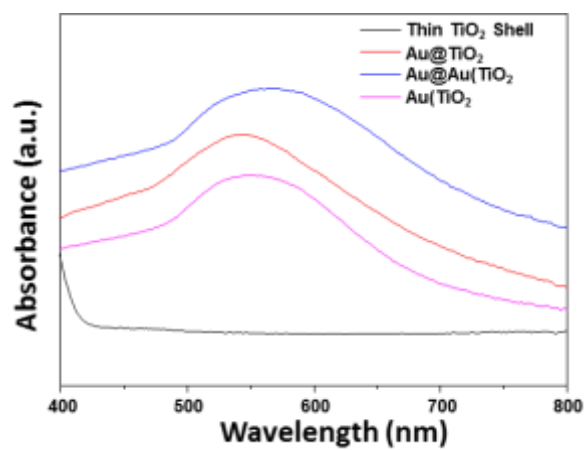


Figure S4. UV-vis diffuse reflectance spectra (DRS) of as-prepared samples.

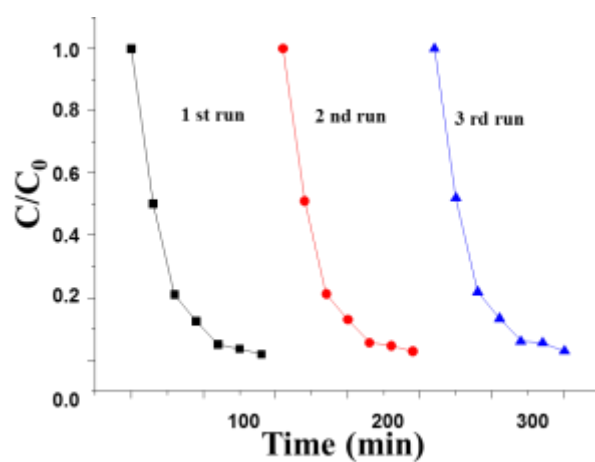


Figure S5. Recyclability of Au@Au(TiO₂) in the photocatalytic degradation of MB in its aqueous solution under visible light.