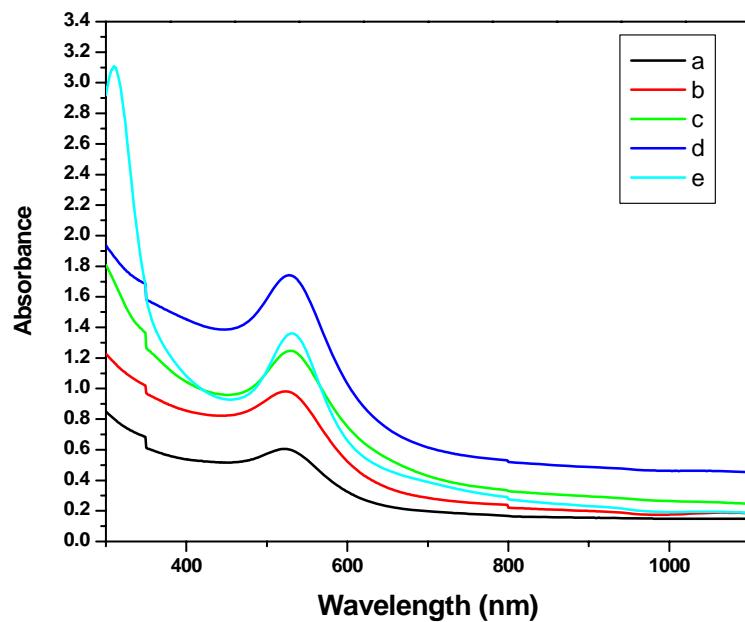
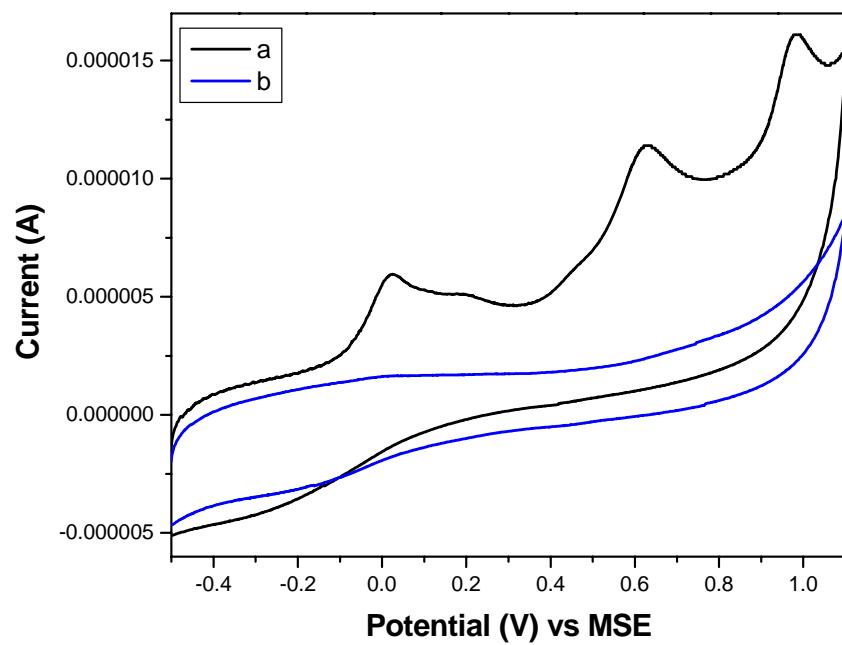


S1.-3 UV-vis spectra obtained during the formation of AuNPs at different time intervals after addition of HAuCl₄ to the solution containing TPB (both concentrations is

$$1.00 \times 10^{-3} \text{ M}$$



S-2. UV-vis spectra of PVP stabilized AuNPs of various concentration (a) 0.25×10^{-3} , (b) 0.50×10^{-3} , (c) 0.75×10^{-3} , (d) 1.00×10^{-3} , and (e) 2.00×10^{-3} M of HAuCl₄ solution using 1×10^{-3} M TPB as reductant.



S-3 Cyclic voltammetry of TPB (1.00×10^{-3}), PVP (0.01g) dissolved in 0.5M H_2SO_4 solution containing with (blue color line) and without (black color line) HAuCl_4