

Electronic Supplementary Information

Heterogeneous Au-Pt nanostructures with enhanced catalytic activity toward oxygen reduction

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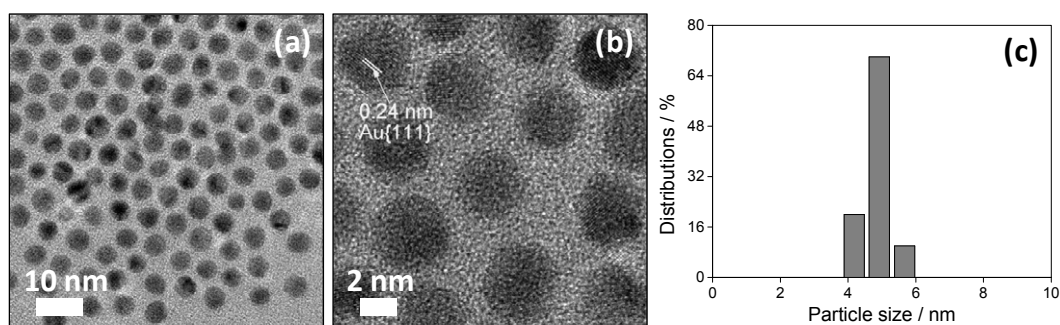


Fig. S1 (a)TEM image, (b) HRTEM image, and (c) size distribution of as-prepared Au nanoparticles, average diameter ($\bar{d}$) = 5.0 nm, standard deviation (σ) = 0.40 nm, relative standard deviation ($\frac{\sigma}{\bar{d}}$) = 8%.

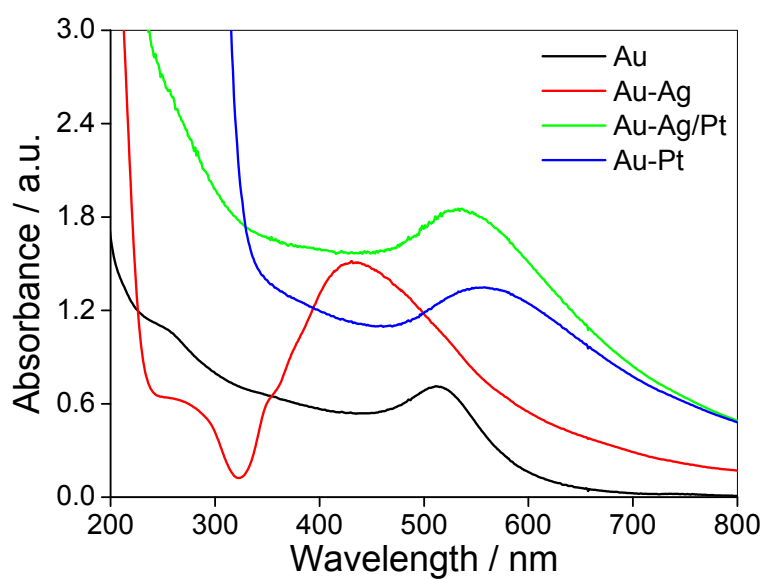


Fig. S2 UV-visible spectra of Au seed, core-shell Au-Ag, core-shell Au-Ag/Pt and heterogeneous Au-Pt hydrosols.

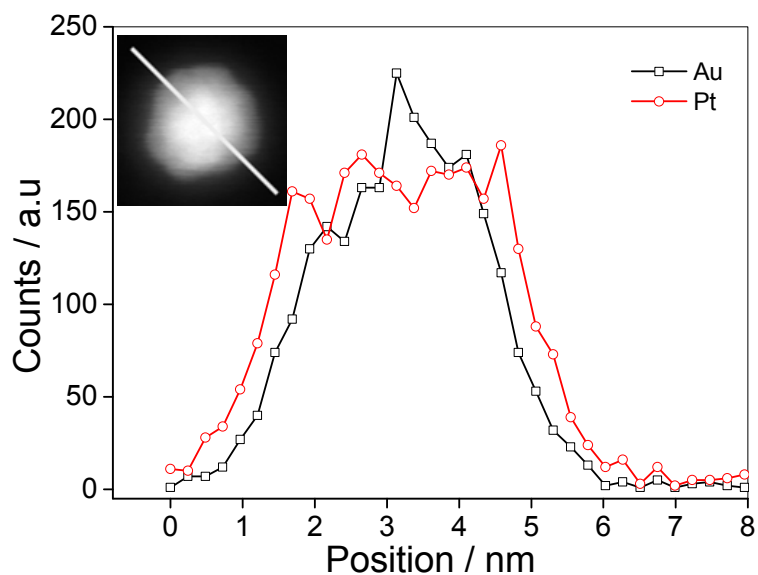


Fig. S3 Element profiles of an arbitrary single heterogeneous Au-Pt nanostructure (inset). The Pt signal was present throughout the particle whereas the Au signal was detected only in the core region (~5 nm).