Supplementary Data

Stabilizing cyanosols: Amorphous cyanide bridged transition metal polymer nanoparticles

Christine M. Burgess, Nan Yao, Andrew B. Bocarsly

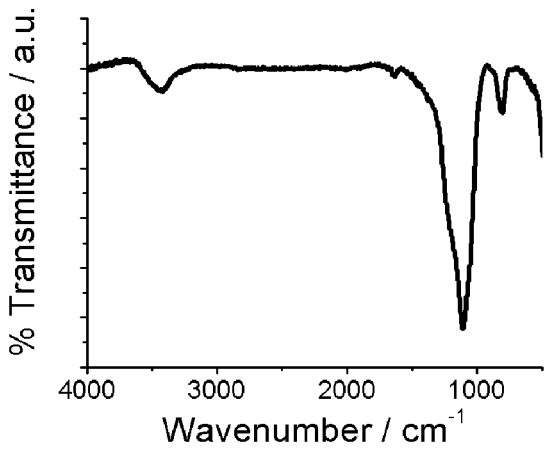

Figure S-1: IR analysis of thermal product of heating nanoparticles deposited on silica gel. The strong stretches at 1111cm^{-1}, 808cm^{-1} and 473 cm^{-1} are associated with the silica support. All stretches are associated with cyanide ligands or with the CTA counter-ion are no longer present indicating that thermal auto-reduction of the nanoparticles has occurred.

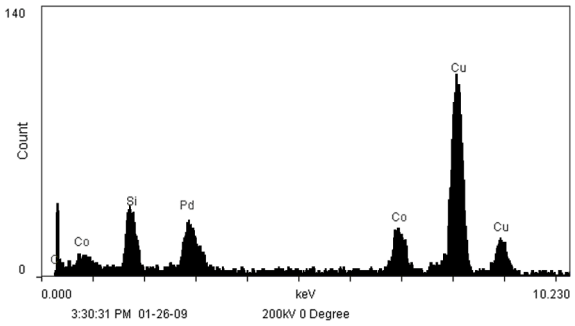

Figure S-2: Single crystalline particle contains both Pd and Co. EDX analysis of a single particle shows signals for both Pd and Co. Elemental signal for Si is due to the silica support while the signal for Cu is from the copper TEM grid.

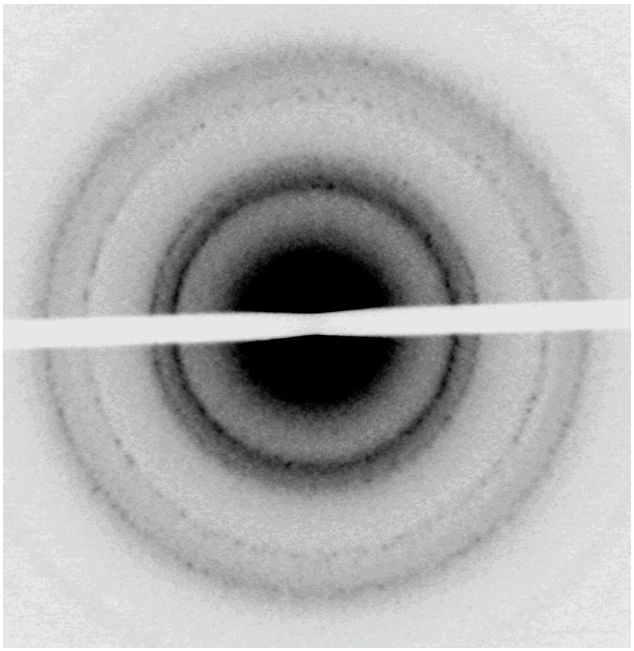

Figure S-3: Inverse of electron diffraction patterns of metal nanoparticles which shows the presence of an FCC crystalline phase. Some broadening of the pattern is seen between the 111 and the 200 signal which is due to the holey carbon on the TEM grid. Using a gold standard the lattice parameter was calculated to be 3.818 Å.