

Electronic Supplementary Material

Interfacial Activation of Catalytically Inert Au (6.7 nm)–Fe₃O₄ Dumbbell Nanoparticles for CO Oxidation

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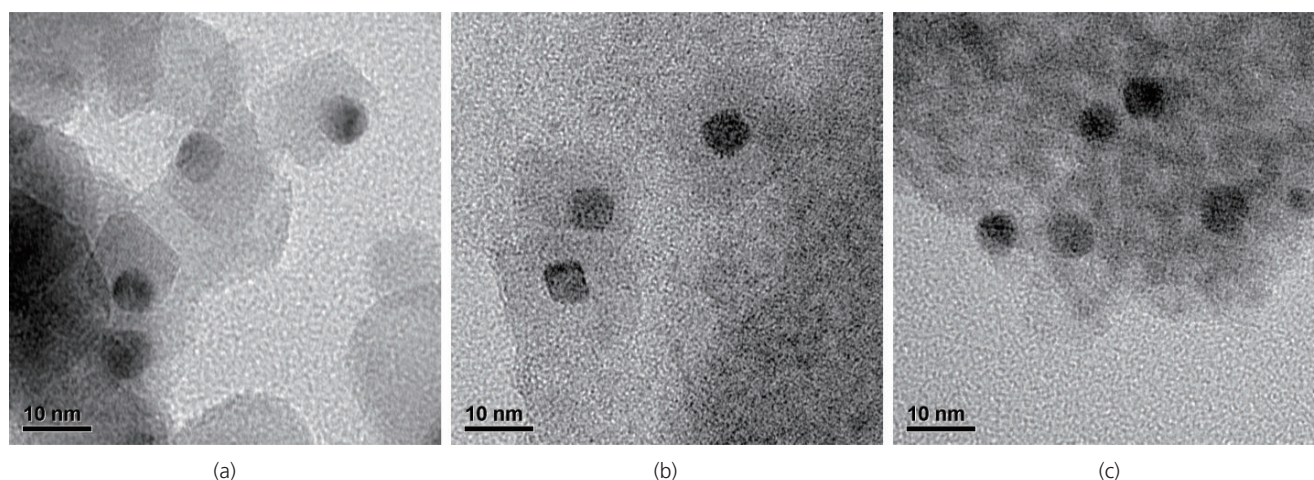


Figure S-1 Comparison TEM images of Au–Fe₃O₄-1/ P25 prepared by the colloidal deposition method (a), Au–Fe₃O₄-1/TiO₂ (b) and Au–Fe₃O₄-2/ TiO₂ (c) prepared by the thermal decomposition method. All catalysts were thermally treated at 350 °C for 2 h. A better Au–TiO₂ contact in Au–Fe₃O₄-1/TiO₂ than in Au–Fe₃O₄-1/ P25 is clearly revealed. The smaller size of the iron oxide particles in Au–Fe₃O₄-2 is beneficial to the effective contact of TiO₂ on Au. As compared with Au–Fe₃O₄-1/TiO₂, Au nanoparticles in Au–Fe₃O₄-2/ TiO₂ are nicely surrounded by fine TiO₂.