

Catalytic Activity of Nanoalloys from Gold and Palladium

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Supporting Information

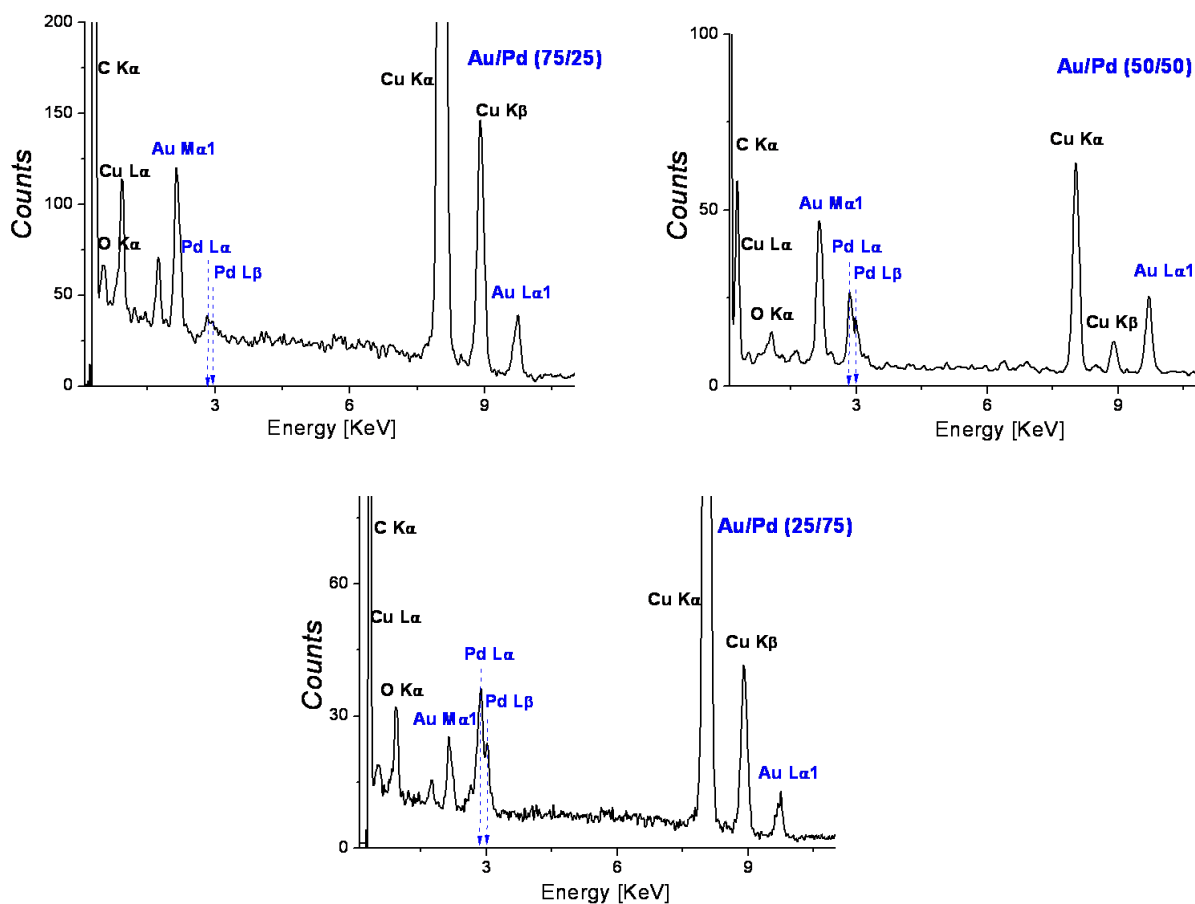


Figure S1: EDX spectra of the prepared Au-Pd alloy nanoparticles.

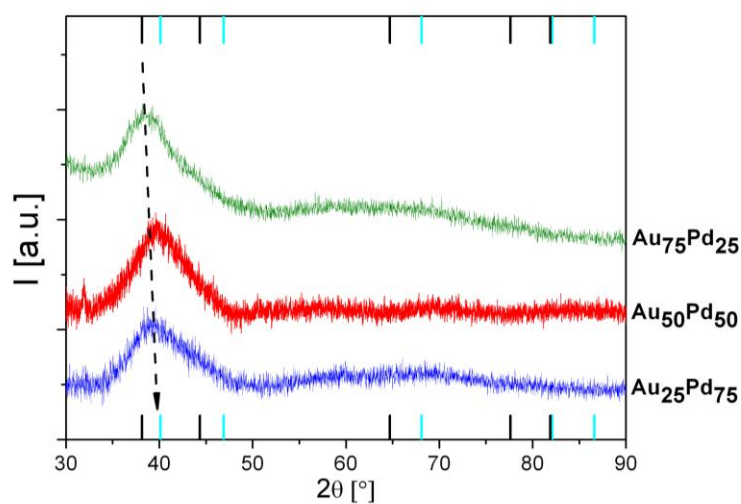


Figure S2: PXRD measurements of the prepared Au-Pd alloy nanoparticles. The dashed line indicates the shift of the position of the (111) reflection as a guide for the eye.

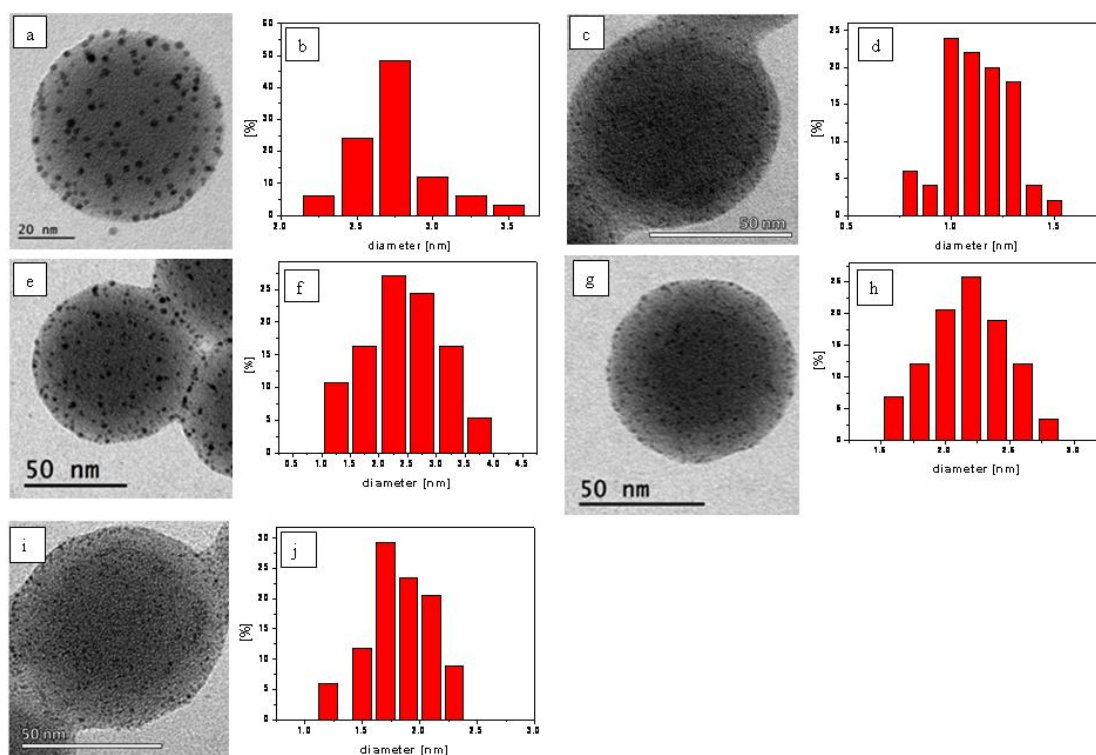


Figure S3. TEM images for Au (a), Pd (c), Au₇₅Pd₂₅ (e), Au₅₀Pd₅₀ (g), Au₂₅Pd₇₅ (i) composite particles, and particle size distribution histograms (b, d, f, h, j) of metal nanoparticles evaluated from the corresponding TEM images.

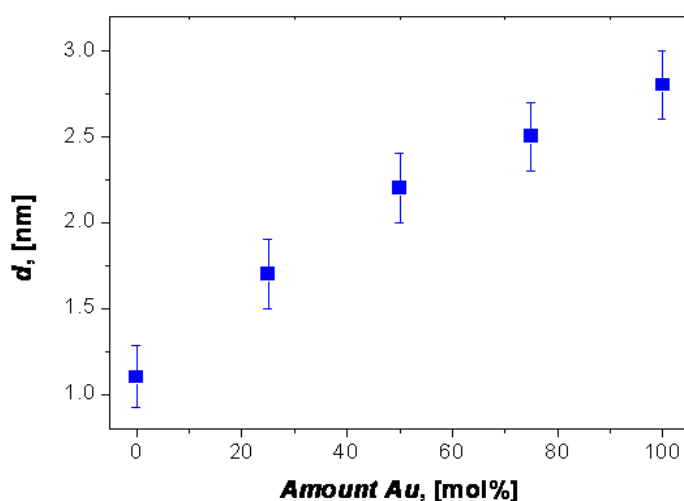


Figure S4. Particle size of the Au-Pd nanoparticles with different Au amount obtained by TEM analysis.

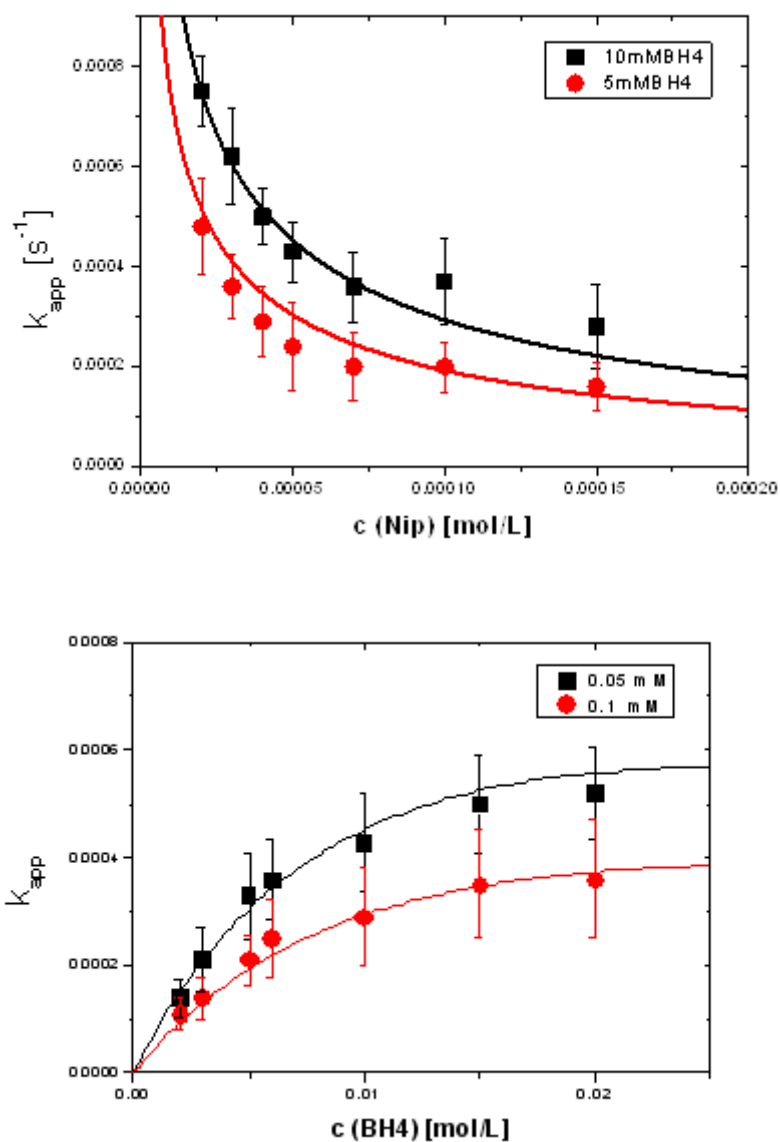


Figure S5. Dependence of the apparent rate constant k_{app} for palladium nanoparticles on the concentration of Nip (upper panel) and BH₄⁻ (lower panel), respectively. The solid lines show the fits for the kinetic model.