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Supplementary Material (ESI) for Nanoscale

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N,*N*-Dimethylformamide-Stabilized Gold Nanoclusters as a Catalyst for the Reduction of 4-Nitrophenol

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Figure S1. Plot of $\ln(A_{410}/A_0)$ versus time for the reduction of PNP in water over DMF-stabilized Au NCs with an excess amount of NaBH₄ in aqueous media at 298K. (Reaction conditions: $[Au] = 1\mu M$ (based on amount of gold atoms), $[NaBH_4] = 0.2 \text{ M}$, and $[PNP] = 1 \times 10^{-4} \text{ M}$. Before the experiment, we used the degassing sample solution by N₂ gas.



Figure S2. Fluorescence spectra of the DMF-stabilized Au NCs in water (a) before the reaction and (b) after the reaction.

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Figure S3. The H^1 -NMR spectrum of 0.1 M DMF in D_2O .



Figure S4. (a) UV–vis absorption spectrum in water and (b) MALDI-MS spectrum of glutathione-stabilized Au NCs : $Au_{25}(SG)_{18}$ NCs.