

Supplementary information:

Title: Green chemistry synthesis of chloroanilines: selective hydrogenation of the nitro in chloronitrobenzenes over zirconia-supported gold catalyst

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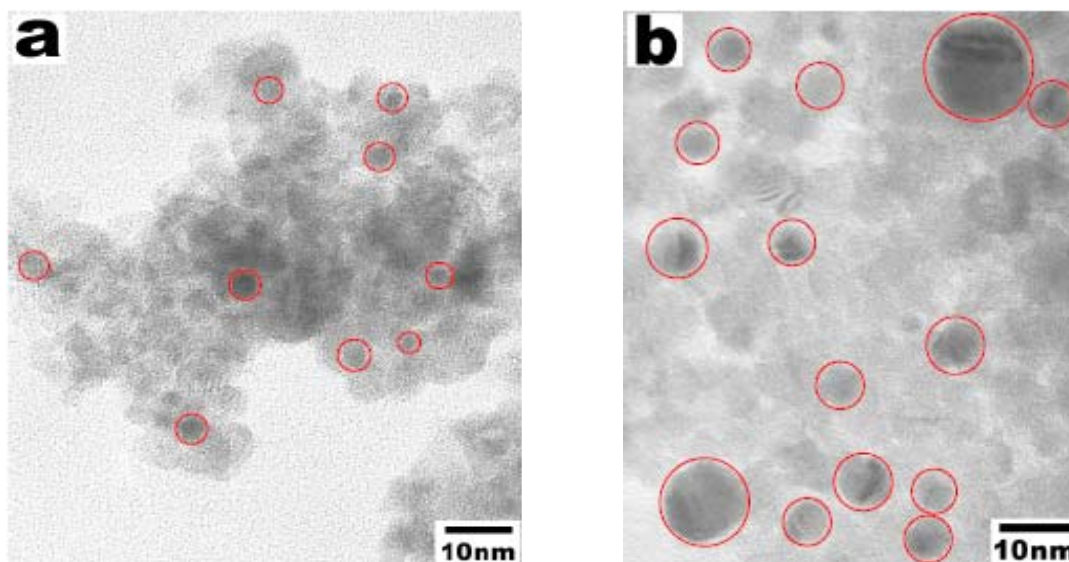


Figure S1. TEM images of the as-prepared fresh (a) and recovered/reacted (b) Au/ZrO₂ catalysts.

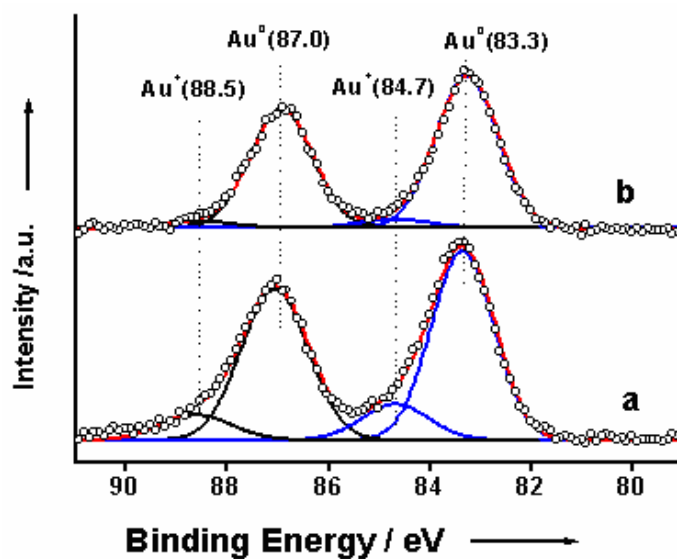


Figure S2. XPS spectra (Au 4f) of Au/ZrO₂ (as-prepared) (a) and Au/ZrO₂-R (pre-reduced at 200 °C) (b) catalysts.

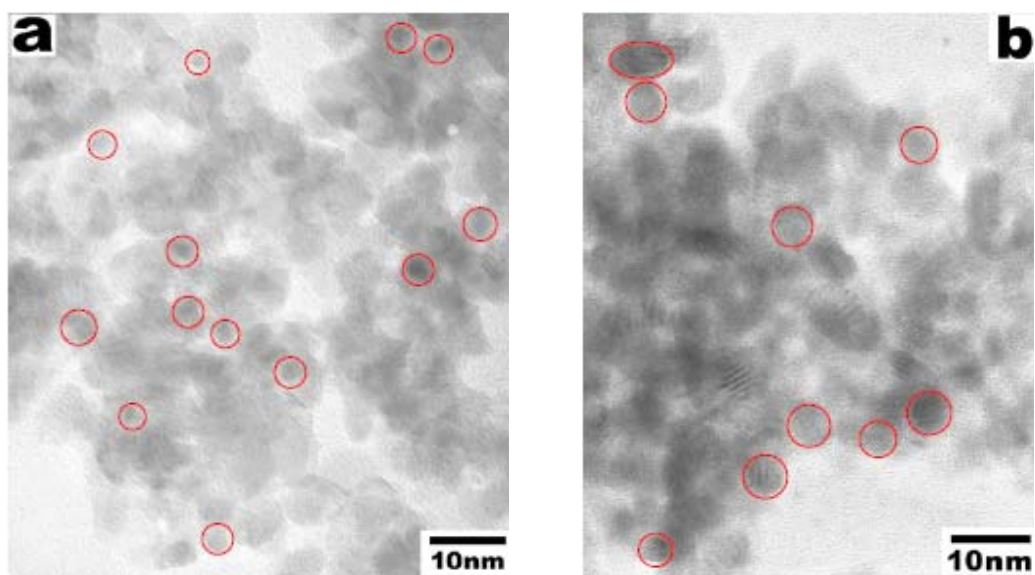


Figure S3. TEM images of the pre-reduced (a) and recovered/reacted (b) Au/ZrO₂ catalysts.

Table S1

Hydrogenation of *p*-chloronitrobenzene in ethanol and toluene solvents over the as-prepared Au/ZrO₂^a catalyst

Substrate	Solvent	Conv. (%)	Product sel. (%)		Dechlori. (%)
			<i>p</i> -CAN	Others	
<i>p</i> -CNB	ethanol	100	99.4	0.6 ^b	0
	toluene	100	100	0	0

^a Reaction conditions: 25.0 mg catalyst, 2.0 mmol substrate in 4.0 ml ethanol (solvent), 150 °C, 1.0 MPa H₂, 5 h. ^b N-ethyl-chloroaniline (0.5%) and bis-chlorophenyl-diazene (0.1%).