

Article

Physical and Chemical Synthesis of Au/CeO₂ Nanoparticle Catalysts for Room Temperature CO Oxidation: A Comparative Study

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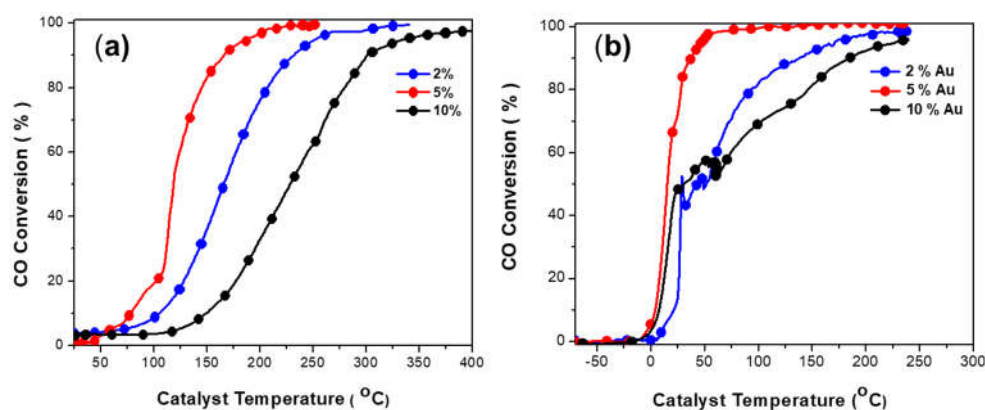


Figure S1. Catalytic activities of fresh Au/CeO₂ catalyst prepared by (a) LVCC and (b) DP methods as a function of Au loading.

Table S1. Concentration [†] of Elements Detected (in Atom%).

Sample	Ce	O	C	Au
Au/CeO ₂ (LVCC)	28.2	45.54	26.0	0.3
Au/CeO ₂ (DP)	31.6	47.2	20.0	1.1

[†] Concentrations are normalized to 100%. Note: XPS does not detect hydrogen or helium. “nd” indicates none detected above XPS detection limit of ~0.1 atom%. * Carbon concentrations were overestimated due to the overlap of Ce 4s with carbon 1s.

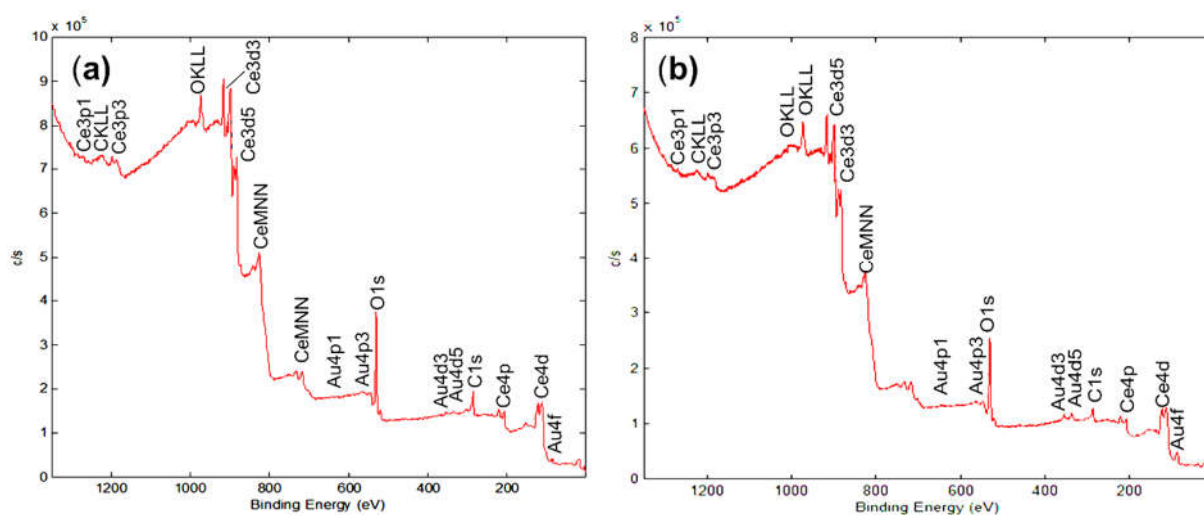


Figure S2. Survey scan of (a) 5% Au/CeO₂ (LVCC). Various amounts of the following species: cerium as Ce⁴⁺, oxygen, carbon as {C-(C, H), C-O, C=O, O-C=O}, and traces of gold as Au. (b) 5% Au/CeO₂ (DP). Various amounts of the following species: cerium as Ce⁴⁺, oxygen, carbon as {C-(C, H), C-O, C=O, O-C=O}, and traces of gold as Au.