
Titanate nanotube supported Rh-Au bimetallic catalysts: Characterization and their catalytic performances in hydroformylation of vinyl acetate

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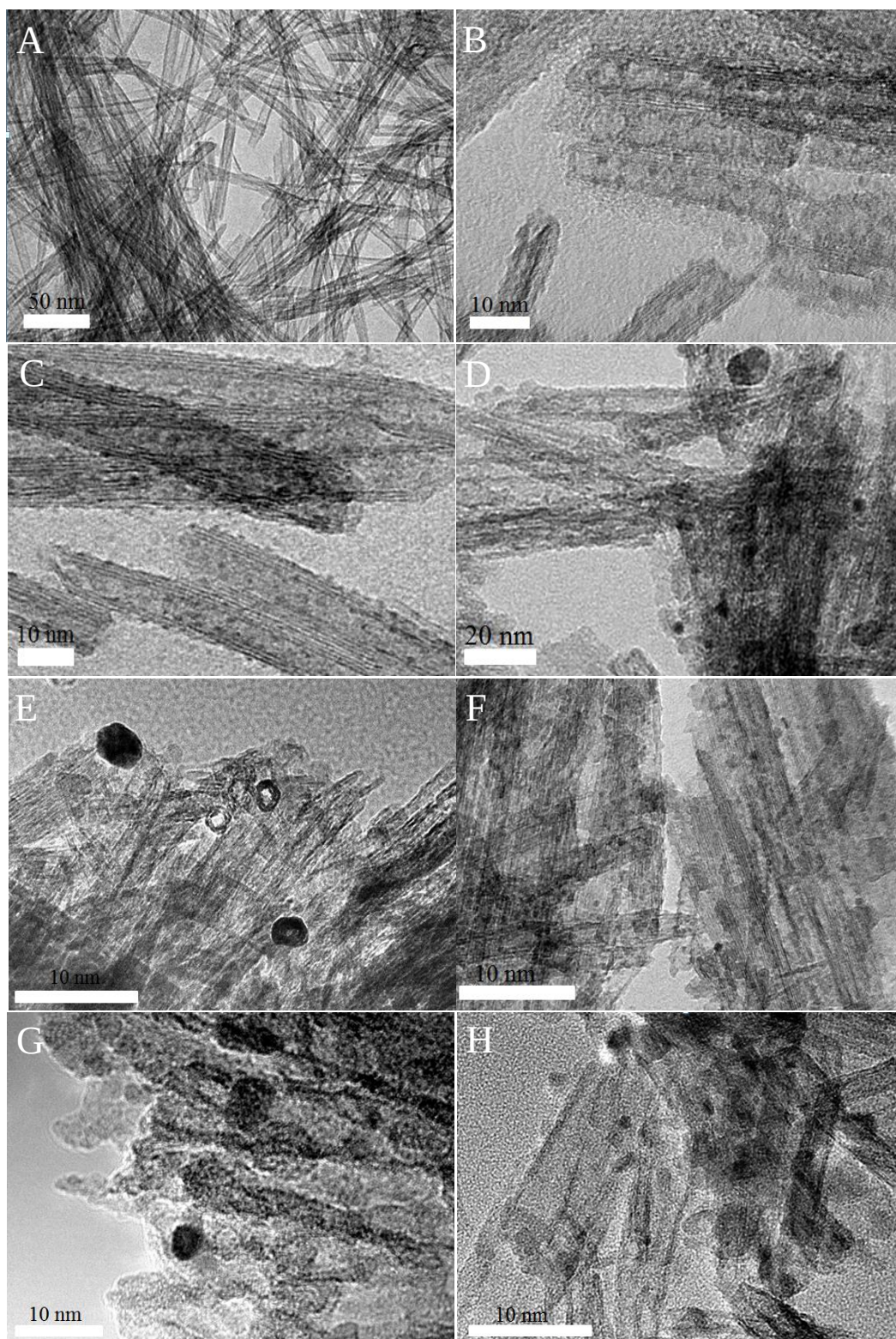


Figure S1. TEM of catalysts: TNTs(**A**), $\text{Au}_{0.49}/\text{TNTs-2}$ (**B**), $\text{Au}_{0.28}/\text{Rh}_{0.34}/\text{TNTs-12}$ (**C**), $\text{Au}_{0.78}/\text{Rh}_{0.31}/\text{TNTs-12}$ (**D**), $\text{Au}_{0.98}/\text{Rh}_{0.33}/\text{TNTs-12}$ (**E**), $\text{Au}_{0.49}/\text{Rh}_{0.33}/\text{TNTs-22}$ (**F**), $\text{Au}_{0.50}/\text{Rh}_{0.32}/\text{TNTs-11}$ (**G**) and $\text{Au}_{0.52}/\text{Rh}_{0.32}/\text{TNTs-12}^*$ (**H**).

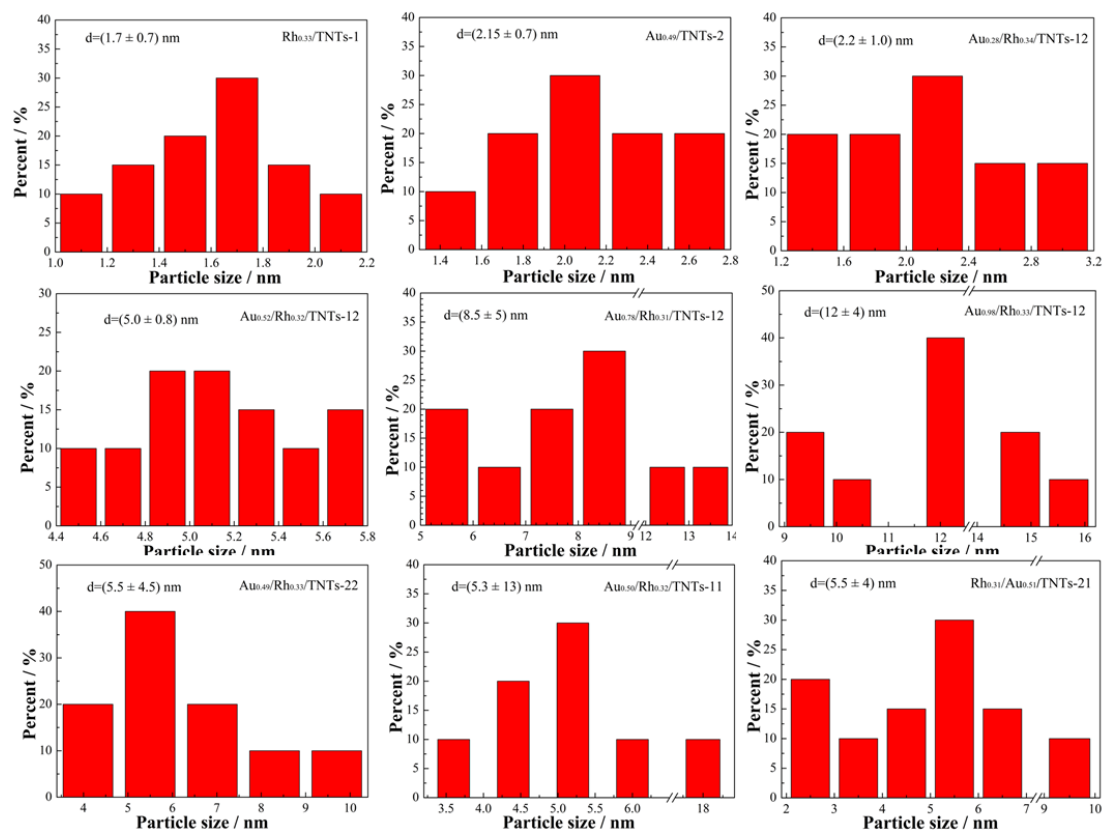


Figure S2. Particle size distribution of the resultant catalysts.

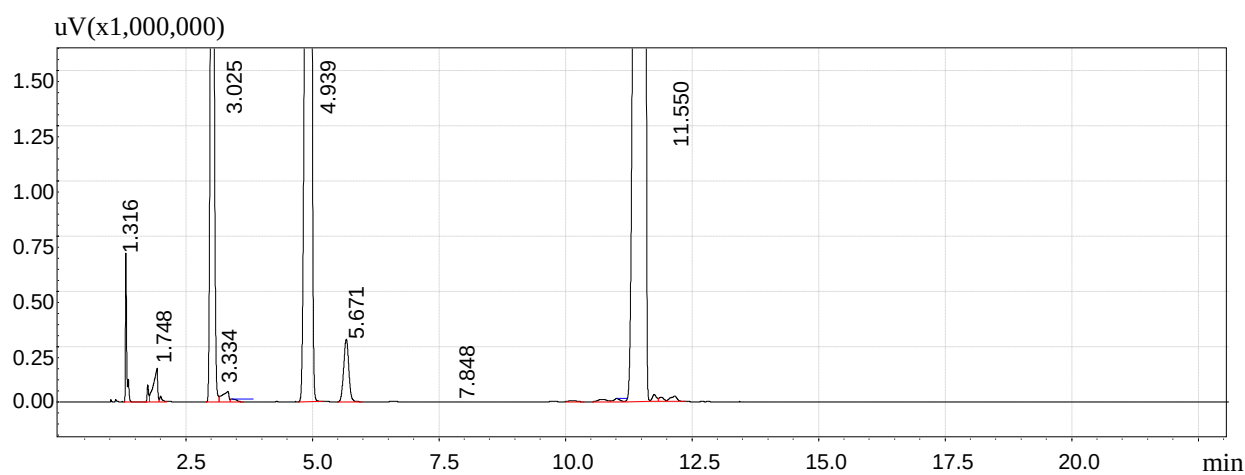


Figure S3. Gas chromatogram of vinyl acetate hydroformylation