

Gold Loaded Titanium Dioxides-Carbon Nanotubes Composites as Active Photocatalysts for Cyclohexane Oxidation at Ambient Conditions

Mohamed Mokhtar Mohamed †,*

† Benha University, Faculty of Science, Chemistry Department, Benha, Egypt

Figure S1: FTIR Spectra of MWCNT and MWCNT-TNT catalysts

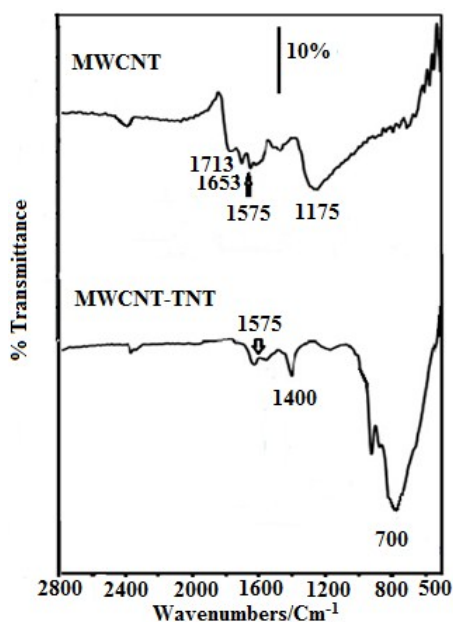


Figure S2: Effect of reactive intermediates (isopropanol, IPA; p-benzoquinone, BQ; triethanolamine, TEOA) on the activity of Au/TNT-MWCNT towards cyclohexane oxidation. Reaction conditions were done with 0.05 g of catalyst, 10 mmol cyclohexane, 10 mmol H₂O₂, 10 mL of acetonitrile, photoirradiation time, 12 h (>256 nm).

