

Supporting information

Supported Bimetallic AuPd Nanoparticles as Catalyst for the Solvent-Free Selective Hydrogenation of Nitroarenes

Ruiyang Qu,^{a,b} Margherita Macino,^a Sarwat Iqbal,^a Xiang Gao,^{b*} Qian He,^a Graham J. Hutchings,^a Meenakshisundaram Sankar^{a*}

^a *Cardiff Catalysis Institute, School of Chemistry, Cardiff University, Cardiff, CF10 3AT, UK*

^b *State Key Laboratory of Clean Energy Utilization, College of Energy Engineering, Zhejiang University, Hangzhou, 310027, China*

* Corresponding author. Prof. X. Gao, State Key Laboratory of Clean Energy Utilization, College of Energy Engineering, Zhejiang University, Hangzhou, 31002, China.

E-mail: xgao1@zju.edu.cn

* Corresponding author. Dr. M. Sankar, Cardiff Catalysis Institute, School of Chemistry, Cardiff University, Cardiff, CF10 3AT, UK

E-mail address: Sankar@cardiff.ac.uk

This supporting information contains

Figures S1 and S2

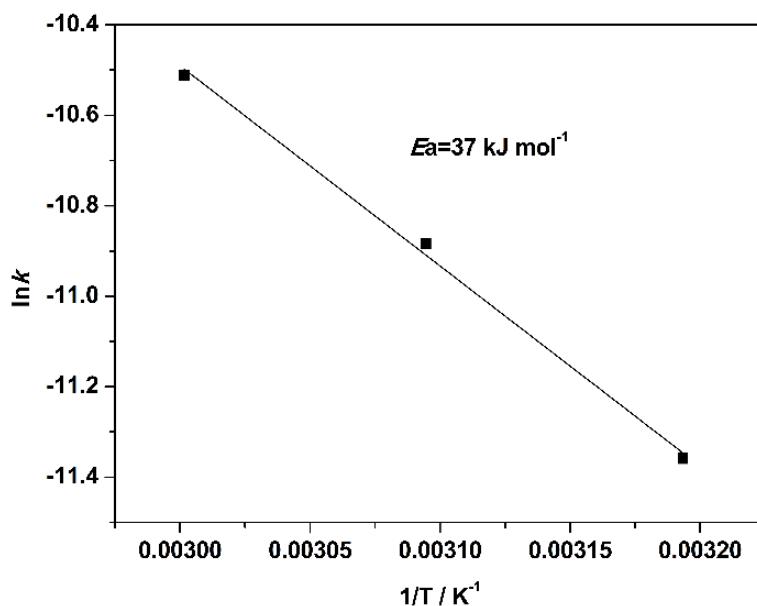


Figure S1 Arrhenius plot for the hydrogenation of nitrobenzene over 1%AuPd/TiO₂ (M_{Im}) catalyst. Reaction conditions: nitrobenzene: 10 mmol, ethanol: 16 mL, catalyst: 12.5 mg, H₂ pressure: 3 bar.

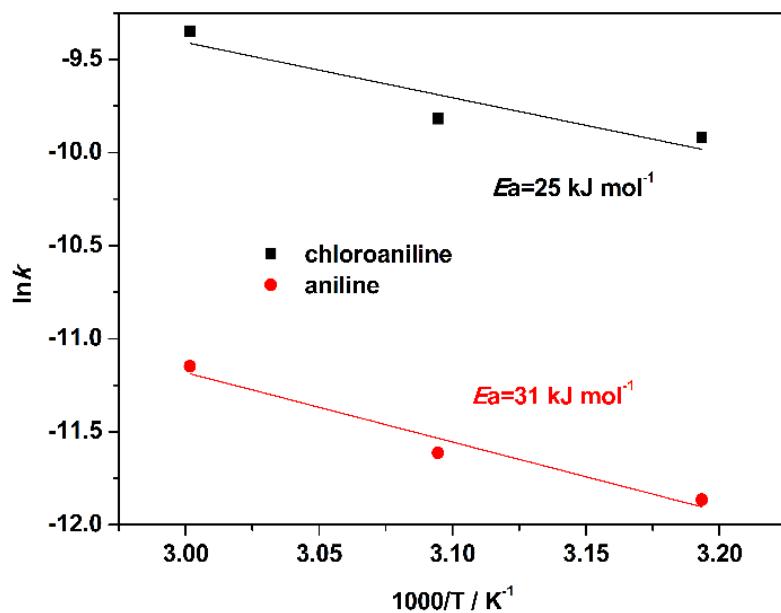


Figure S2 Arrhenius plot for the hydrogenation of CAN over 1%AuPd/TiO₂ (M_{Im}) catalyst. Reaction conditions: CAN: 10 mmol, ethanol: 16 mL, catalyst: 12.5 mg, H₂ pressure: 3 bar.