Electronic Supplementary Material (ESI) for Catalysis Science and Technology

Supplementary Information

Support effects on the structure and performance of ruthenium catalysts for the Fischer-Tropsch Synthesis

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Figure S1. Digital diffraction patterns (DDP) of TiO_2 particles labelled as R (a) and A (b) in Figure 3 of the manuscript.

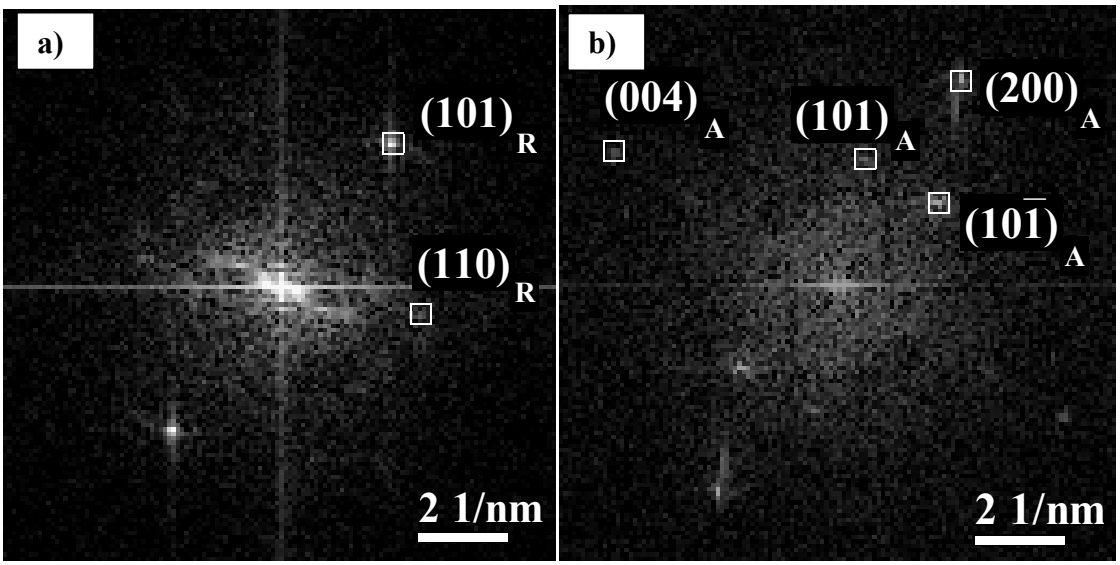

Figure S2. (a) HR-TEM image of RuTi0.8N sample; (b) Electron diffraction diagram of the squared region in (a) showing the pattern of rutile oriented along the [121] zone axis; (c) calculated electron diffraction diagram of rutile oriented along the [121] zone axis with WebEMAPS in J.M. Zuo, J. C. Mabon, *Web-based Electron Microscopy Application Software: Web-EMAPS*, Microsc. Microanal. 10 (2004) 1000

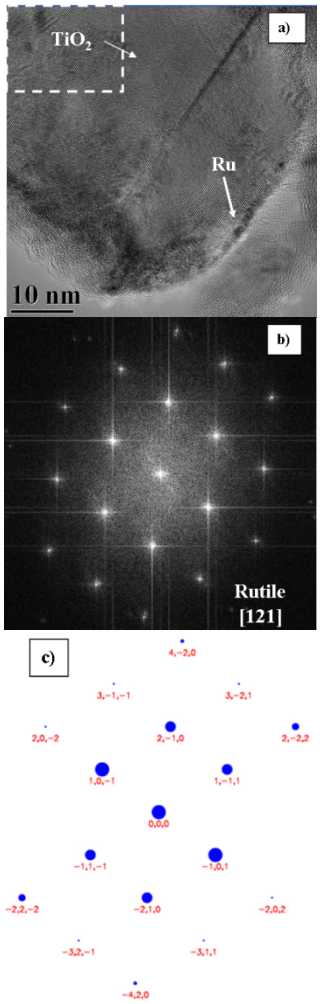

Figure S3. FT-IR spectra of CO adsorbed on reduced catalysts at room temperature (straight line) and following outgassing at room temperature (dotted line)

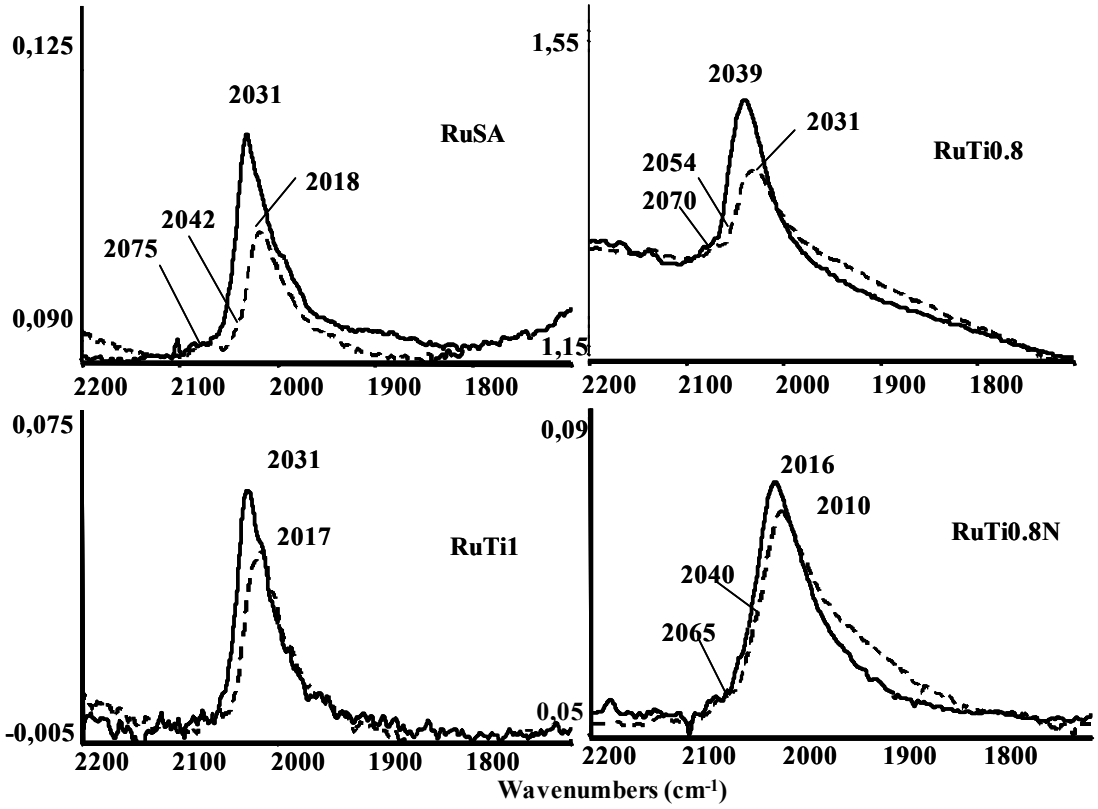

Figure S4. FT-IR spectra of surface and gas phase (inset) species formed onto the reduced RuTi0.8N and RuSA catalysts after contact with CO + H_2 at 523 K.