

Supplementary materials

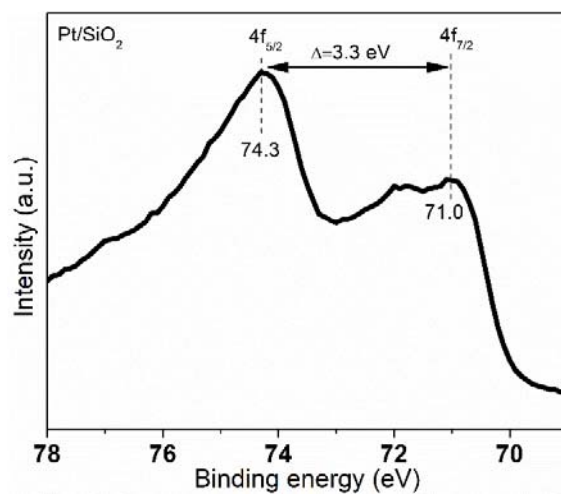


Fig. S1 Pt 4f XPS spectra of Pt/SiO₂ catalysts

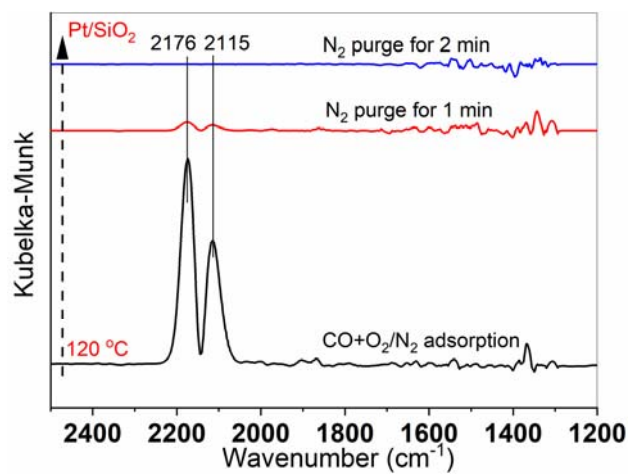


Fig. S2 *In situ* FTIR spectra of CO adsorbed at 120°C followed by N₂ purging on Pt/SiO₂ catalysts

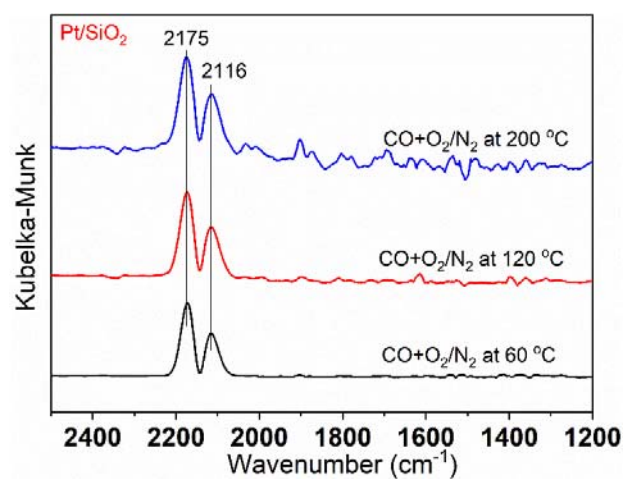


Fig. S3 *In situ* FTIR spectra of CO and O₂ co-adsorption at 60°C, 120°C, and 200°C on Pt/SiO₂ catalysts