Supplementary Information



Figure S1. CO conversions on Pt/SiO₂, Pt/TiO₂ and Pt/Al₂O₃ catalysts with/without being pretreated in 4% H₂/He.



Figure S2. XRD patterns of several spent Pt catalysts.



Figure S3. CO conversions on MO_x/SiO₂, MO_x/TiO₂, and MO_x/Al₂O₃ (modified supports) as a function of reaction temperature.



Figure S4. CO conversion on Pt/CoO_x and CoO_x catalysts as a function of reaction temperature.



Figure S5. Additional TEM image of the spent Pt/CoO_x/Al₂O₃.



Figure S6. CO_2 -TPD profiles of Pt/CoO_x/SiO₂, Pt/CoO_x/TiO₂, Pt/CoO_x/Al₂O₃ and the corresponding supports.



Figure S7. CO conversions on Pt catalysts as a function of reaction time. All these catalysts were

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