

Supplementary Information

Rational Design of Highly Dispersed Ultra-small Ru Nanoparticles on MgO-Al₂O₃ for Efficient and Selective Aromatic Hydrogenation

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1. Supporting Figures

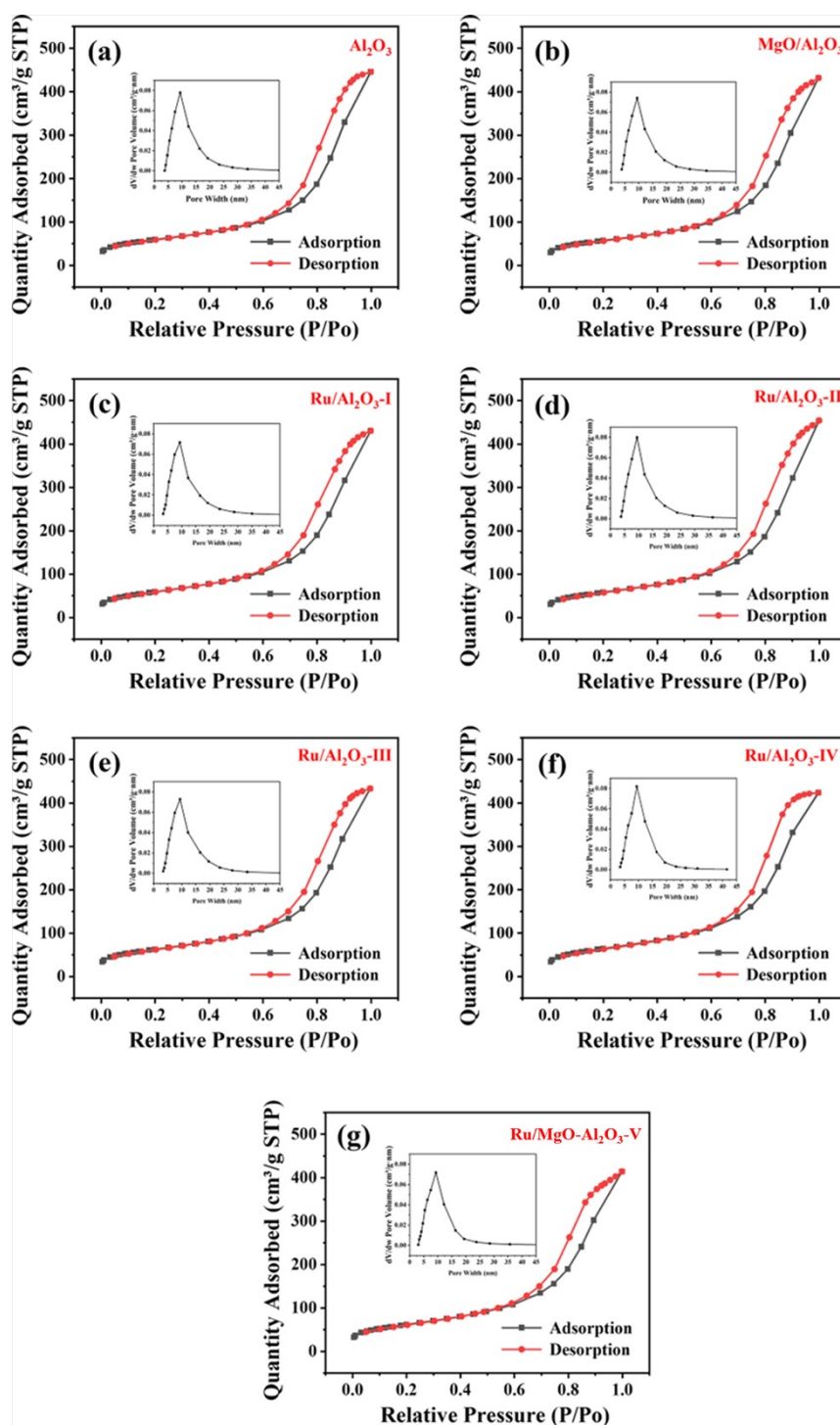


Fig. S1. N₂ adsorption-desorption isotherms and pore size distributions for Al₂O₃(a), 3%MgO/Al₂O₃(b), Ru/Al₂O₃-I(c), Ru/Al₂O₃-II(d), Ru/Al₂O₃-III(e), Ru/Al₂O₃-IV(f) and Ru/MgO-Al₂O₃-V(g).

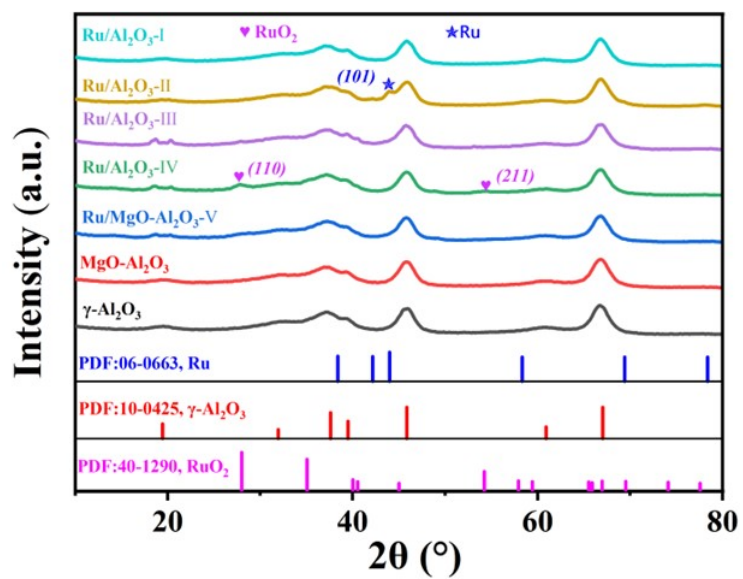


Fig. S2. XRD patterns of the catalyst support and supported ruthenium catalysts.

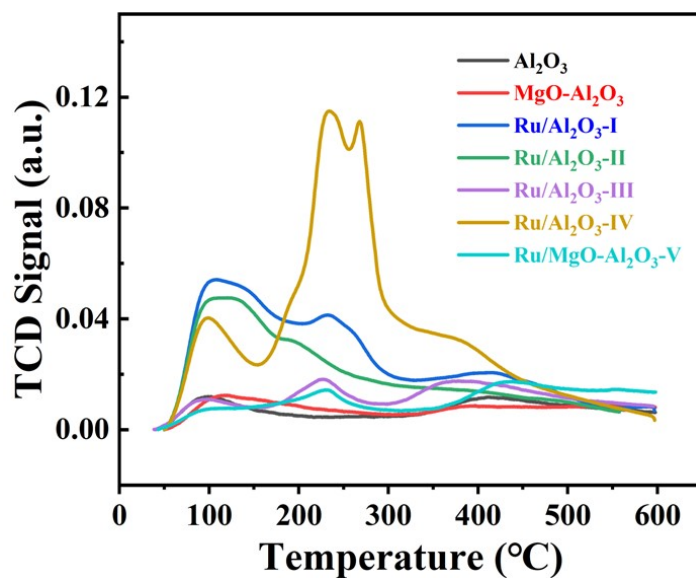


Fig. S3. NH_3 -TPD patterns of the catalyst support and supported ruthenium catalysts.