Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2014

Supporting Information

Title: Enhancement of Pt-Ru catalytic activity for catalytic wet air oxidation of methylamine *via* tuning Ru surface chemical state and dispersion by Pt addition

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Number of pages: 9

Number of figures: 8

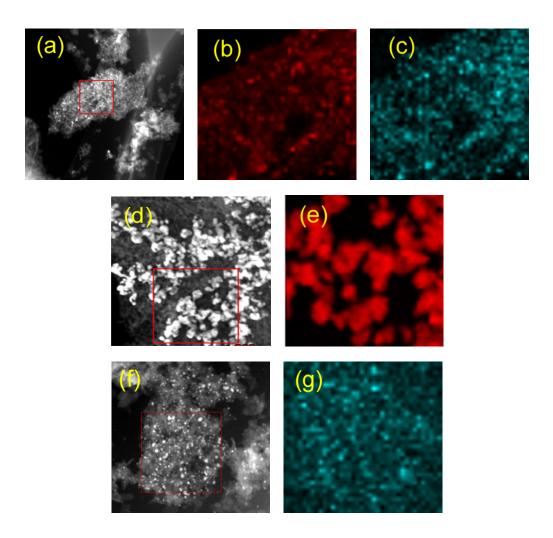


Figure S1 Elemental mapping images of the (a) Ru-Pt, (d) Pt, and (f) Ru catalysts: (b) and (e) for platinum mapping; (c) and (g) for ruthenium mapping.

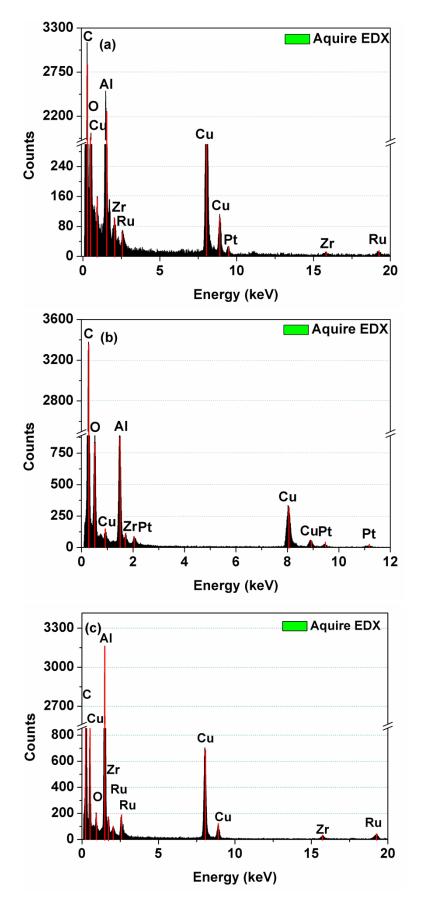


Figure S2 Typical EDX spectra of (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.

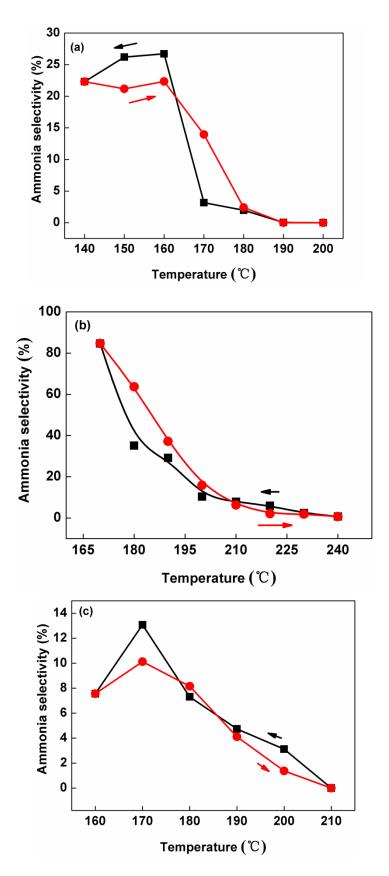


Figure S3 Influence of the temperature on the ammonia selectivity over (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.

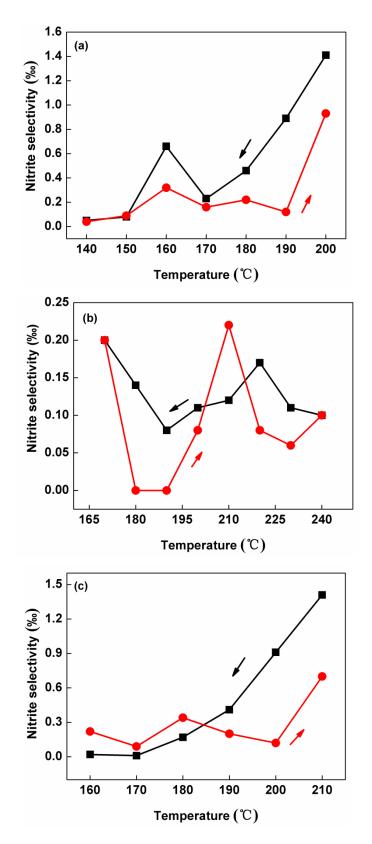


Figure S4 Influence of the temperature on the nitrite selectivity over (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.

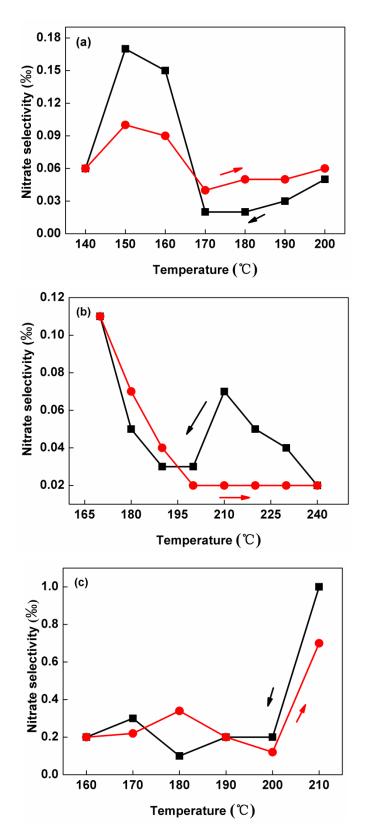


Figure S5 Influence of the temperature on the nitrate selectivity over (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.

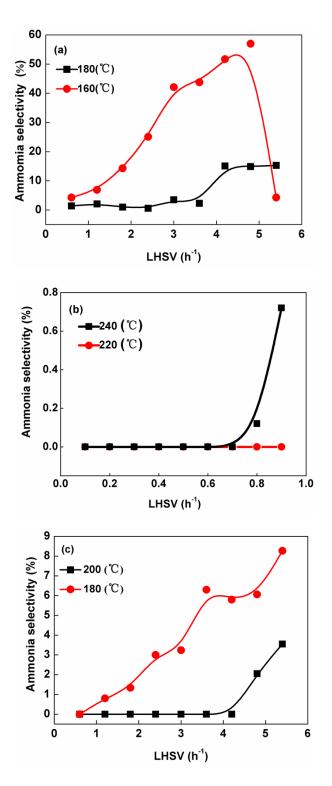


Figure S6 Influence of LHSV on the ammonia selectivity over (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.

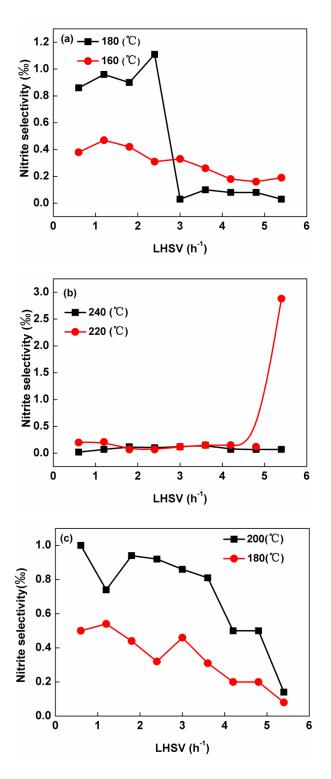


Figure S7 Influence of LHSV on the nitrite selectivity over (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.

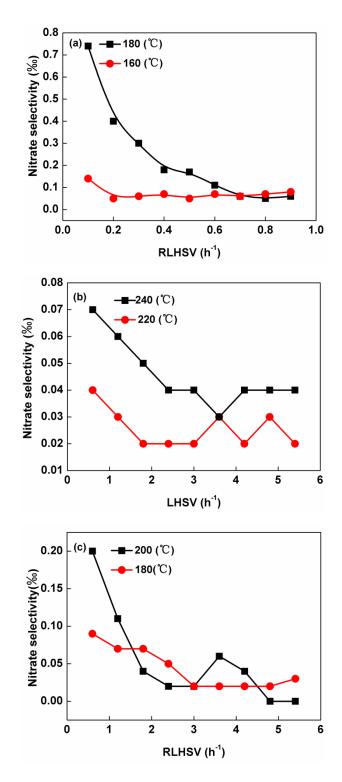


Figure S8 Influence of LHSV on the nitrate selectivity over (a) Ru-Pt, (b) Pt, and (c) Ru catalysts.