

Supplementary Information

**Combined UHV-STM - flow cell set-up for electrochemical /-catalytic studies
of structurally well-defined UHV prepared model electrodes**

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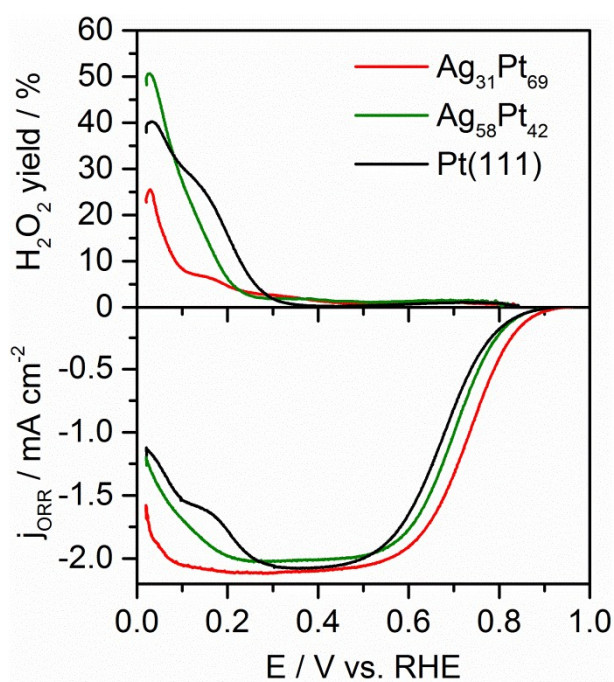


Fig S1: Current densities for the ORR (bottom panel) and H_2O_2 yield (top panel) from simultaneous electrochemical detection of the H_2O_2 yield on Pt(111) (black traces), $\text{Ag}_{31}\text{Pt}_{69}/\text{Pt}(111)$ (red traces) and $\text{Ag}_{58}\text{Pt}_{42}/\text{Pt}(111)$ (green traces) (O_2 -saturated 0.5 M H_2SO_4 , $v = 10 \text{ mV s}^{-1}$).