Initial stage of the O₂ adsorption on Ag(100): vacancies and local oxide formation

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Supplementary information

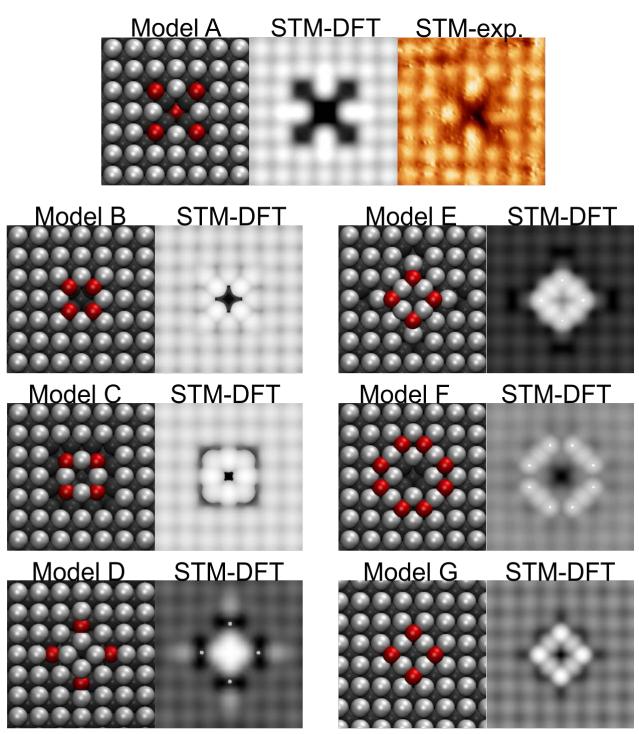


Figure 1S. DFT modeling of the large cross. The better correspondence is achieved for model A. Six other test models and their corresponding theoretical STM images calculated for $U_s = -2\ V$ are presented for comparison.

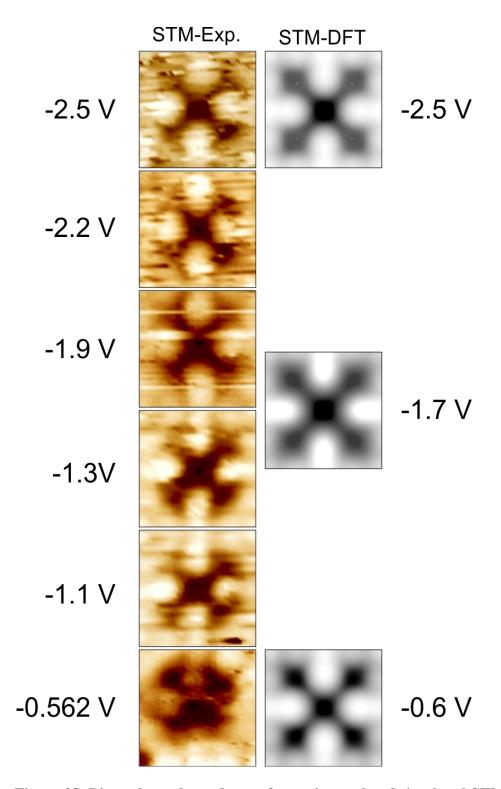


Figure 2S. Bias voltage dependence of experimental and simulated STM images of cross '1'.

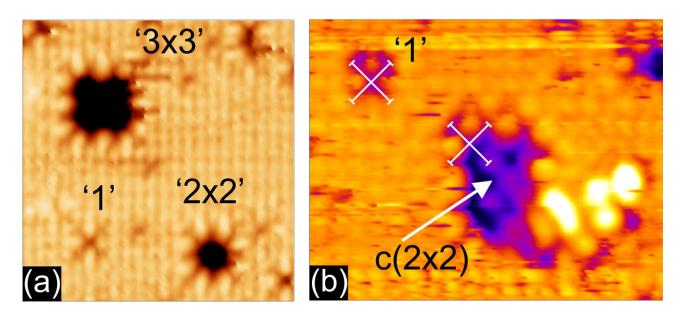


Figure 3S. (a) STM image $(63\times65~\text{Å}^2, 77~\text{K}, U_s=$ -1121 mV, $I_t=0.5~\text{nA})$ showing the '2×2' and '3×3' features formed by merging the '1' features. (b) STM image $(53\times42~\text{Å}^2, 77~\text{K}, U_s=$ -600 mV, $I_t=0.5~\text{nA})$ showing the $c(2\times2)$ periodicity at the center of the merged feature. The white cross corresponds to the single object '1'.