

Factors controlling CO intercalation of h-BN overlayers on Ru(0001)

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Electronic Supporting Information

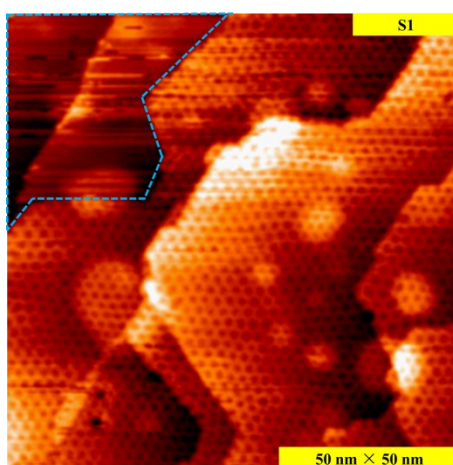


Fig. S1 STM image of 0.75 ML h-BN/Ru(0001) surface exposed to 1×10^{-6} mbar CO without annealing. The region highlight by dotted line is from the bare Ru(0001) surface region, in which STM images show scratches. The image size is 50 nm \times 50 nm.

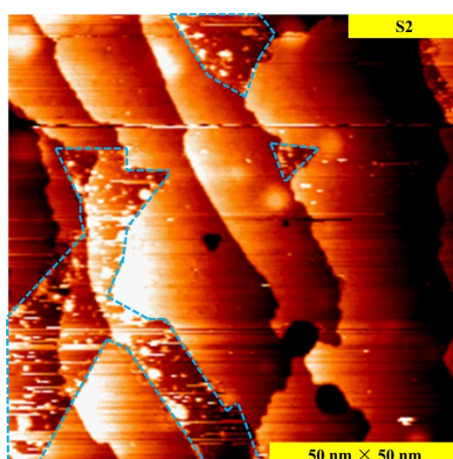


Fig. S2 STM image of 0.75 ML h-BN/Ru(0001) surface exposed to 2 mbar CO without annealing. The regions highlight by dotted lines are from the bare Ru(0001) surface, in which STM images show scratches. The image size is 50 nm \times 50 nm. The flat regions are h-BN covered-Ru(0001) surface.

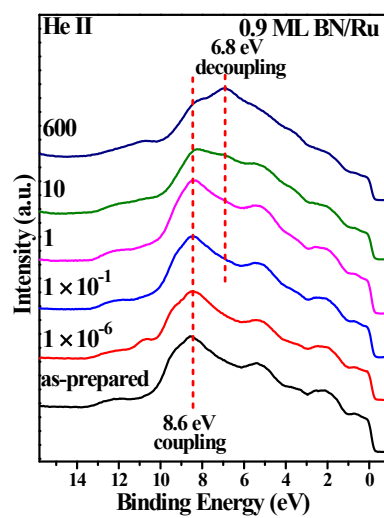


Fig. S3 He-II UPS spectra of 0.9 ML h-BN/Ru(0001) surface exposed to CO gas with the indicated pressures (mbar) at room temperature. The co-existence of features at 8.6 and 6.8 eV