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Supporting Information

for

Nitrous oxide as an effective AFM tip functionalization: a comparative study

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Additional computational data

Calculated force and energy

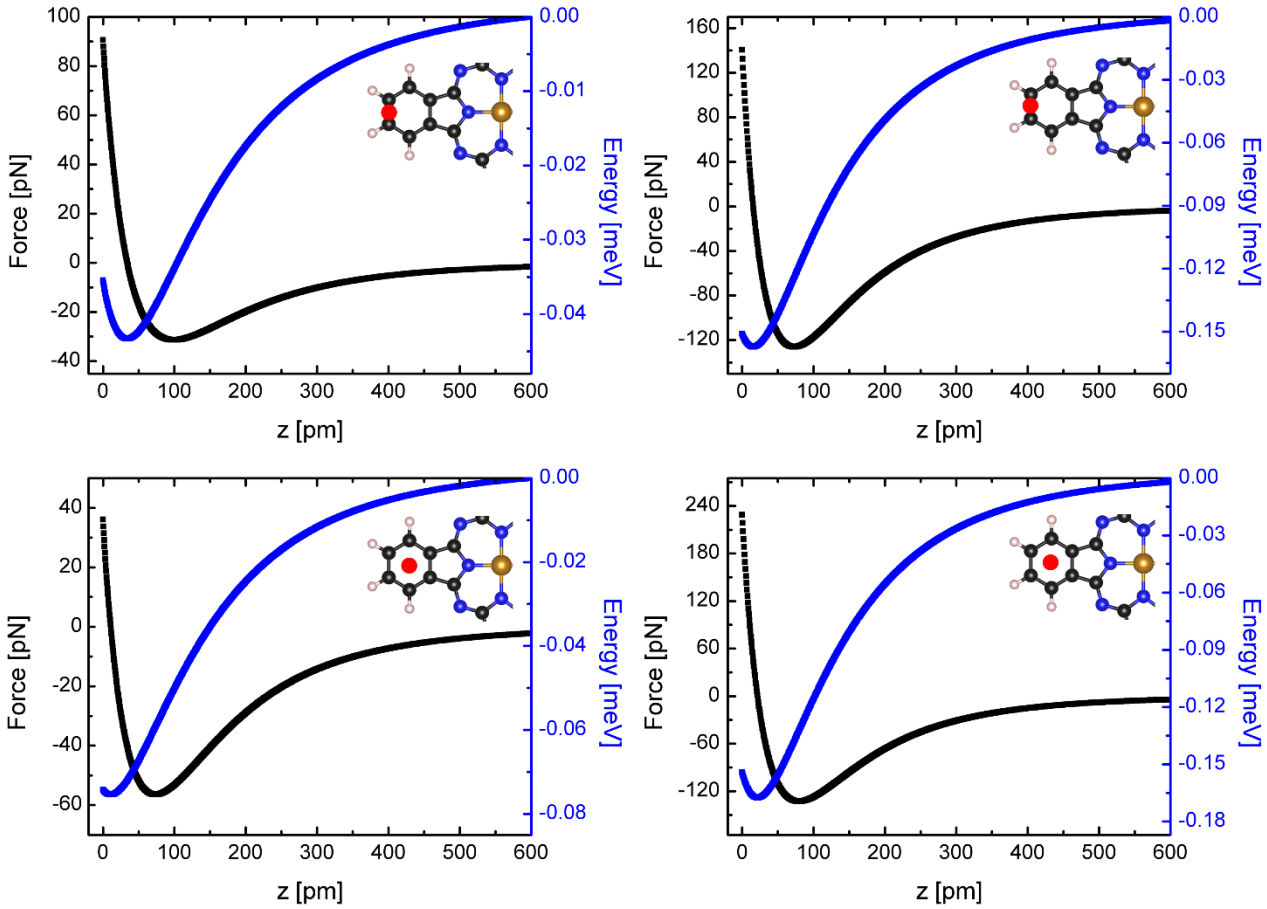

Figure S1: Deconvoluted force and energy from the experimentally obtained frequency shift as a function of the tip–sample distance for CO (left side) and N_2O tips (right side). The long-range component measured on bare Au(111) was subtracted prior to calculation from the total interaction curve. The measurements were acquired above an outer C–C bond and above a hollow site of a peripheral benzene of the FePc molecule (position indicated with a red dot in the inset of each plot). The force and energy were calculated using the Giessibl method [1].

References

[1] Giessibl F. J. *Appl. Phys. Lett*. **2001,** *78,* 123–125. doi:10.1063/1.1335546