

Supplemental Document

Nanoscale Investigation of N-Heterocyclic Carbene Monolayers on Metal Surfaces

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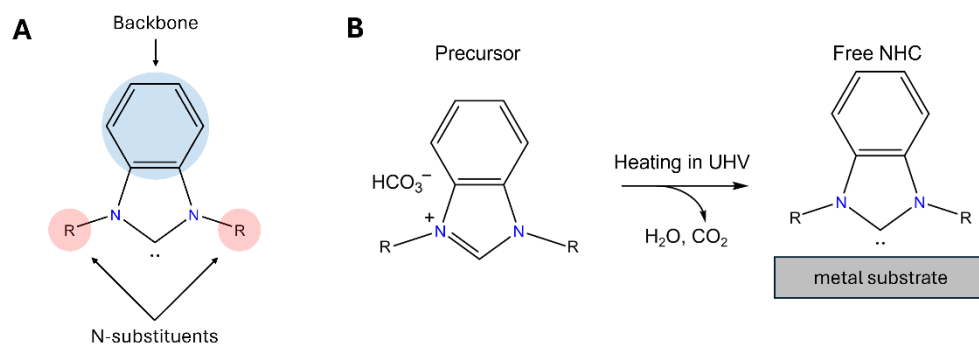


Figure 1. (A) Chemical structure of a N-heterocyclic carbene (NHC), highlighting the backbone structure and N-substituent groups. (B) Schematics of the deposition process. The hydrogen carbonate precursor is converted into a free NHC when heated in vacuum.

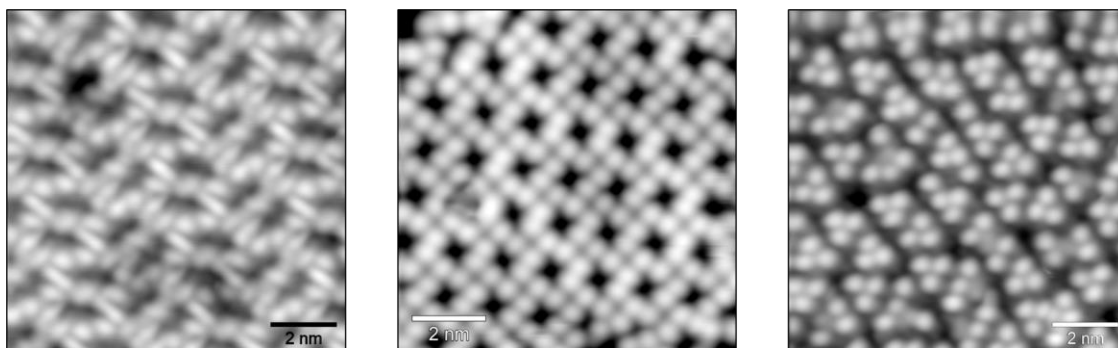


Figure 2. High resolution STM images showing different self-assembly patterns formed on Cu(111) by NHCs with different N-substituents. The images have been acquired at 77 K in constant-current mode.